

## GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

Analog Devices Inc.  
804 Woburn Street  
WILMINGTON MA 01887  
USA

ist berechtigt, für ihr Produkt /  
*is authorized to use for their product*

**Magnetische und kapazitive Koppler für Verstärkte Isolierung**  
***Magnetic and Capacitive Coupler for Reinforced Isolation***

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
*the legally protected Marks as shown below for the types referred to on page 2 ff.*



REG.-Nr. 133860 oder/or



oder/or VDE-REG.-Nr. 133860

REG.-Nr. 133860

Geprüft und zertifiziert nach /  
*Tested and certified according to*

DIN V VDE V 0884-10 (VDE V 0884-10):2006-12



Aktenzeichen: 2471900-4880-0001 / 227392

File ref.:

Ausweis-Nr. 40011599

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /  
*further conditions see overleaf and following pages*

Offenbach, 2004-09-09

(letzte Änderung / updated 2016-09-08 )

VDE Prüf- und Zertifizierungsinstitut GmbH  
VDE Testing and Certification Institute  
Zertifizierungsstelle / Certification

G. Heine

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# VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

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Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*  
Analog Devices Inc., 804 Woburn Street, WILMINGTON MA 01887, USA

Aktenzeichen / *File ref.*  
2471900-4880-0001 / 227392 / EC22 / SCT

letzte Änderung / *updated* Datum / *Date*  
2016-09-08 2004-09-09

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40011599.  
*This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40011599.*

## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

Typ(en) / *Type(s)*

- 1] ADuM 1100
- 2] ADuM 1200
- 3] ADuM 1201
- 4] ADuM 1210
- 5] ADuM 1300
- 6] ADuM 1301
- 7] ADuM 1310
- 8] ADuM 1400
- 9] ADuM 1401
- 10] ADuM 1402
- 11] ADuM 1410
- 12] ADM 2486
- 13] ADM 2483
- 14] AD 7400
- 15] AD 7401
- 16] ADuM 2400
- 17] ADuM 2401
- 18] ADuM 2402
- 19] ADuM 3100
- 20] ADuM 3200
- 21] ADuM 3201
- 22] ADuM 3210
- 23] ADuM 3300
- 24] ADuM 3301
- 25] ADuM 3310
- 26] ADuM 3400
- 27] ADuM 3401
- 28] ADuM 3402
- 29] ADuM 3410
- 30] ADuM 1311

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

Typ(en) / *Type(s)*

31] ADuM 1411  
32] ADuM 1412  
33] ADuM 1250  
34] ADuM 1251  
35] ADuM 2250  
36] ADuM 2251  
37] ADM 2485  
38] ADM 2490E  
39] ADuM 5240  
40] ADuM 5241  
41] ADuM 5242  
42] ADuM 3440  
43] ADuM 3441  
44] ADuM 3442  
45] AD7400A  
46] AD7401A  
47] ADuM 2200  
48] ADuM 2201  
49] ADW8420xy  
50] ADW8430xy  
51] ADW8440xy  
52] ADM 2491E  
53] ADM 2482E  
54] ADM 2487E  
55] ADM 2484E  
56] ADuM1220  
57] ADuM1223  
58] ADuM1230  
59] ADuM1233  
60] ADuM1234

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|                                  |                     |
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| 2016-09-08                       | 2004-09-09          |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

Typ(en) / *Type(s)*

- 61] ADuM3160
- 62] ADuM4160
- 63] ADuM3220
- 64] ADuM3221
- 65] ADuM4400
- 66] ADuM4401
- 67] ADuM4402
- 68] ADuM6000 ARIZ
- 69] ADuM2210
- 70] ADuM2211
- 71] ADuM6200 (A;C)RIZ
- 72] ADuM6201 (A;C)RIZ
- 73] ADuM6202 (A;C)RIZ
- 74] ADuM6400 (A;C)RIZ
- 75] ADuM6401 (A;C)RIZ
- 76] ADuM6402 (A;C)RIZ
- 77] ADuM6403 (A;C)RIZ
- 78] ADuM6404 (A;C)RIZ
- 79] ADuM3211
- 80] ADuM3470
- 81] ADuM3471
- 82] ADuM3472
- 83] ADuM3473
- 84] ADuM3474
- 85] ADM 2481
- 86] ADuM 1280 (A;B;C) RZ
- 87] ADuM 1281 (A;B;C) RZ
- 88] ADuM 1285 (A;B;C) RZ
- 89] ADuM 1286 (A;B;C) RZ
- 90] ADM3052BRWZ

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

Typ(en) / Type(s)

- 91] ADM3054BRWZ
- 92] ADuM3070 ARQZ
- 93] ADuM3223 (A;B;C) RZ
- 94] ADuM4223 (A;B;C) RWZ
- 95] ADM2682EBRIZ
- 96] ADM2687EBRIZ
- 97] ADuM4070ARIZ
- 98] ADuM4470 (A;C) RIZ
- 99] ADuM4471 (A;C) RIZ
- 100] ADuM4472 (A;C) RIZ
- 101] ADuM4473 (A;C) RIZ
- 102] ADuM4474 (A;C) RIZ
- 103] ADuM5010ARSZ
- 104] ADuM5210 (A;B;C) RSZ
- 105] ADuM5211 (A;B;C) RSZ
- 106] ADuM5212 (A;B;C) RSZ
- 107] ADuM6010ARSZ
- 108] ADuM6210 (A;B;C) RSZ
- 109] ADuM6211 (A;B;C) RSZ
- 110] ADuM6212 (A;B;C) RSZ
- 111] ADuM2280 (A;B;C) RIZ
- 112] ADuM2281 (A;B;C) RIZ
- 113] ADuM2285 (A;B;C) RIZ
- 114] ADuM2286 (A;B;C) RIZ
- 115] ADuM3480 (A;B) RSZ
- 116] ADuM3481 (A;B) RSZ
- 117] ADuM3482 (A;B) RSZ
- 118] AD7402BRIZ
- 119] AD7403BRIZ
- 120] AD7405BRIZ

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letzte Änderung / updated Datum / Date  
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Typ(en) / Type(s)

121] AD7402-8BRIZ  
122] AD7403-8BRIZ  
123] ADE7912ARIZ  
124] ADE7913ARIZ  
125] ADE7932ARIZ  
126] ADE7933ARIZ  
127] ADuM4150 (A;B) RIZ  
128] ADuM4151 (A;B) RIZ  
129] ADuM4152 (A;B) RIZ  
130] ADuM4153 (A;B) RIZ  
131] ADuM4154 (A;B) RIZ  
132] ADuM1240 A RZ  
133] ADuM1241 A RZ  
134] ADuM1245 A RZ  
135] ADuM1246 A RZ  
136] ADuM1240 A RSZ  
137] ADuM1241 A RSZ  
138] ADuM1245 A RSZ  
139] ADuM1246 A RSZ  
140] ADuM3150 B RSZ  
141] ADuM3151 (A;B) RSZ  
142] ADuM3152 (A;B) RSZ  
143] ADuM3153 (A;B) RSZ  
144] ADuM3154 (A;B) RSZ  
145] ADuM3190 (A;B) RQZ  
146] ADuM3190 (S;T) RQZ  
147] ADuM1440 A RQZ  
148] ADuM1441 A RQZ  
149] ADuM1442 A RQZ  
150] ADuM1445 A RQZ

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letzte Änderung / updated Datum / Date  
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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

Typ(en) / Type(s)

- 151] ADuM1446 A RQZ
- 152] ADuM1447 A RQZ
- 153] ADuM1440 A RSZ
- 154] ADuM1441 A RSZ
- 155] ADuM1442 A RSZ
- 156] ADuM1445 A RSZ
- 157] ADuM1446 A RSZ
- 158] ADuM1447 A RSZ
- 159] ADuM1480 (A;B;C) RWZ
- 160] ADuM1481 (A;B;C) RWZ
- 161] ADuM1482 (A;B;C) RWZ
- 162] ADuM1485 (A;B;C) RWZ
- 163] ADuM1486 (A;B;C) RWZ
- 164] ADuM1487 (A;B;C) RWZ
- 165] ADuM3224 W(A;B;C) RZ
- 166] ADuM4224 W(A;B;C) RWZ
- 167] ADuM4190 (A;B) RIZ
- 168] ADuM4190 (S;T) RIZ
- 169] ADM3260 A RSZ
- 170] AD71166
- 171] ADW80035 A RWZ
- 172] ADW70015Z
- 173] AD7403TRIZ-EP
- 174] ADuM110N(0;1) BRZ
- 175] ADuM110N(0;1) WBRZ
- 176] ADuM120N(0;1) BRZ
- 177] ADuM120N(0;1) WBRZ
- 178] ADuM210N(0;1) BRZ
- 179] ADuM210N(0;1) WBRZ
- 180] ADuM140(D;E)(0;1) BRWZ

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

Typ(en) / Type(s)

181] ADuM141(D;E)(0;1) BRWZ  
182] ADuM142(D;E)(0;1) BRWZ  
183] ADuM130(D;E)(0;1) BRWZ  
184] ADuM131(D;E)(0;1) BRWZ  
185] ADuM132(D;E)(0;1) BRWZ  
186] ADuM240(D;E)(0;1) BRWZ  
187] ADuM241(D;E)(0;1) BRWZ  
188] ADuM242(D;E)(0;1) BRWZ  
189] ADuM230(D;E)(0;1) BRWZ  
190] ADuM231(D;E)(0;1) BRWZ  
191] ADuM140(D;E)(0;1) WBRWZ  
192] ADuM141(D;E)(0;1) WBRWZ  
193] ADuM142(D;E)(0;1) WBRWZ  
194] ADuM130(D;E)(0;1) WBRWZ  
195] ADuM131(D;E)(0;1) WBRWZ  
196] ADuM132(D;E)(0;1) WBRWZ  
197] ADuM240(D;E)(0;1) WBRWZ  
198] ADuM241(D;E)(0;1) WBRWZ  
199] ADuM242(D;E)(0;1) WBRWZ  
200] ADuM230(D;E)(0;1) WBRWZ  
201] ADuM231(D;E)(0;1) WBRWZ  
202] ADuM140(D;E)(0;1) BRZ  
203] ADuM141(D;E)(0;1) BRZ  
204] ADuM142(D;E)(0;1) BRZ  
205] ADuM130(D;E)(0;1) BRZ  
206] ADuM131(D;E)(0;1) BRZ  
207] ADuM132(D;E)(0;1) BRZ  
208] ADuM140(D;E)(0;1) WBRZ  
209] ADuM141(D;E)(0;1) WBRZ  
210] ADuM142(D;E)(0;1) WBRZ

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

Typ(en) / *Type(s)*

211] ADuM130(D;E)(0;1) WBRZ  
212] ADuM131(D;E)(0;1) WBRZ  
213] ADuM132(D;E)(0;1) WBRZ  
214] ADuM225N(0;1) BRIZ  
215] ADuM226N(0;1) WBRIZ  
216] ADuM4135 BRWZ  
217] ADuM4135 WBRWZ  
218] ADM2795EBRWZ

Weitere Angaben siehe Anlagen 1\_100B; 1\_200B; 1\_600B  
*Further information see appendix*

VDE Prüf- und Zertifizierungsinstitut GmbH  
*VDE Testing and Certification Institute*  
Fachgebiet EC22  
*Section EC22*

# VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Beiblatt /  
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40011599

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*  
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Aktenzeichen / *File ref.*  
2471900-4880-0001 / 227392 / EC22 / SCT

letzte Änderung / *updated*  
2016-09-08

Datum / *Date*  
2004-09-09

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

Fertigungsstätte(n)  
*Place(s) of manufacture*

|                            |                                    |
|----------------------------|------------------------------------|
| Referenz/ <i>Reference</i> | Analog Devices General Trias, Inc. |
| <b>30015143</b>            | Gateway Business Park              |
|                            | 4113 JAVALERA, GEN. TRIAS, CAVITE  |
|                            | PHILIPPINES                        |

VDE Prüf- und Zertifizierungsinstitut GmbH  
*VDE Testing and Certification Institute*  
Fachgebiet EC22  
*Section EC22*

# VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Infoblatt /  
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40011599

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## **Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:**

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Die Genehmigung ist so lange gültig wie die VDE-Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

### **Approval to use the legally protected Mark of the VDE as shown on the first page:**

*Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute ([www.vde.com\terms-institute](http://www.vde.com\terms-institute)). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.*

*The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).*

*The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.*

*Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.*

*The approval is solely signed on the first page.*

Aktenzeichen:  
File reference: **2471900-4880-0001/227392**

Ausweis-Nr.:  
Certificate No.: **40011599**

Anlage Nr.:  
Appendix No.: **1\_100B**

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Datum:  
Date: **2016-09-05**

Diese Anlage ist Bestandteil des Genehmigungsausweises. *This appendix is part of the certificate.*

## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationssp.<br><i>Max. repetitive peak isolation voltage</i><br>$U_{ORM}$ [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>$U_{IOTM}$ [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>$T_{amb}$ [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>$T_{sig}$ [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1                                                             | <b>ADuM 1100</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                          | 4000                                                                                                   | 1_600B                                                                            | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                            | -55 ... +150                                                                 |
| 2                                                             | <b>ADuM 1200</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                            | -55 ... +150                                                                 |
| 3                                                             | <b>ADuM 1201</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                            | -55 ... +150                                                                 |
| 4                                                             | <b>ADuM 1210</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                      | -55 ... +150                                                                 |
| 5                                                             | <b>ADuM 1300</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                            | -55 ... +150                                                                 |
| 6                                                             | <b>ADuM 1301</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                            | -55 ... +150                                                                 |
| 7                                                             | <b>ADuM 1310</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                      | -55 ... +150                                                                 |
| 8                                                             | <b>ADuM 1400</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                            | -55 ... +150                                                                 |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>IO</sub> TM [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 9                                                             | <b>ADuM 1401</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           | 1_600B                                                                            | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 10                                                            | <b>ADuM 1402</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 11                                                            | <b>ADuM 1410</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 12                                                            | <b>ADM 2486</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 13                                                            | <b>ADM 2483</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 14                                                            | <b>AD 7400</b>            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 891                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 15                                                            | <b>AD 7401</b>            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 891                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 16                                                            | <b>ADuM 2400</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 17                                                            | <b>ADuM 2401</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>IO</sub> TM [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 18                                                            | <b>ADuM 2402</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           | 1_600B                                                                            | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 19                                                            | <b>ADuM 3100</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 20                                                            | <b>ADuM 3200</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 21                                                            | <b>ADuM 3201</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 22                                                            | <b>ADuM 3210</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 23                                                            | <b>ADuM 3300</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 24                                                            | <b>ADuM 3301</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 25                                                            | <b>ADuM 3310</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 26                                                            | <b>ADuM 3400</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>IO</sub> TM [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 27                                                            | <b>ADuM 3401</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           | 1_600B                                                                            | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 28                                                            | <b>ADuM 3402</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 29                                                            | <b>ADuM 3410</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 30                                                            | <b>ADuM 1311</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 31                                                            | <b>ADuM 1411</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 32                                                            | <b>ADuM 1412</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                             | -55 ... +150                                                                        |
| 33                                                            | <b>ADuM 1250</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 34                                                            | <b>ADuM 1251</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 35                                                            | <b>ADuM 2250</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |

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| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>IO</sub> TM [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>sig</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 36                                                            | <b>ADuM 2251</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           | 1_600B                                                                            | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 37                                                            | <b>ADM 2485</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -55 ... +150                                                                        |
| 38                                                            | <b>ADM 2490E</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 39                                                            | <b>ADuM 5240</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 40                                                            | <b>ADuM 5241</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 41                                                            | <b>ADuM 5242</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 42                                                            | <b>ADuM 3440</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 43                                                            | <b>ADuM 3441</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 44                                                            | <b>ADuM 3442</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 45                                                            | <b>AD7400A</b>            | CMOS Transformer chip   | CMOS chip                | 2,54                                                                      | ≥ 7,5                                                                                              | ≥ 7,5                                                                                    | 891                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -40 ... +150                                                                        |



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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i>      | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationssp.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>IO</sub> TM [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|--------------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 46                                                            | <b>AD7401A</b>                 | CMOS Transformer chip   | CMOS chip                | 2,54                                                                      | ≥ 7,5                                                                                              | ≥ 7,5                                                                                    | 891                                                                                                                 | 6000                                                                                                           | 1_600B                                                                            | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -40 ... +150                                                                        |
| 47                                                            | <b>ADuM 2200</b>               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 48                                                            | <b>ADuM 2201</b>               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 49                                                            | <b>ADW8420xy</b> <sup>2)</sup> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 50                                                            | <b>ADW8430xy</b> <sup>2)</sup> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 51                                                            | <b>ADW8440xy</b> <sup>2)</sup> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 52                                                            | <b>ADM 2491E</b>               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 53                                                            | <b>ADM 2482E</b>               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -55 ... +150                                                                        |
| 54                                                            | <b>ADM 2487E</b>               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -55 ... +150                                                                        |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationssp.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>IO</sub> TM [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>sig</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 55                                                            | <b>ADM 2484E</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 6000                                                                                                           | 1_600B                                                                            | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 56                                                            | <b>ADuM1220</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 3,5                                                                                              | ≥ 3,5                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 57                                                            | <b>ADuM1223</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 3,5                                                                                              | ≥ 3,5                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 58                                                            | <b>ADuM1230</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 3,5                                                                                              | ≥ 3,5                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 59                                                            | <b>ADuM1233</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 3,5                                                                                              | ≥ 3,5                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 60                                                            | <b>ADuM1234</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 3,5                                                                                              | ≥ 3,5                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 61                                                            | <b>ADuM3160</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 62                                                            | <b>ADuM4160</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 63                                                            | <b>ADuM3220</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 64                                                            | <b>ADuM3221</b>           | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                                 | 4000                                                                                                           |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 65                                                            | <b>ADuM 4400</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                                       | ≥ 8,0<br>≥ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationssp.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>IO</sub> TM [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 66                                                            | <b>ADuM 4401</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≅ 8,5 <sup>3)</sup>                                                                       | ≅ 8,0<br>≅ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           | 1_600B                                                                            | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 67                                                            | <b>ADuM 4402</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≅ 8,5 <sup>3)</sup>                                                                       | ≅ 8,0<br>≅ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 68                                                            | <b>ADuM 6000 ARIZ</b>     | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≅ 8,5                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 69                                                            | <b>ADuM 2210</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≅ 8,5 <sup>3)</sup>                                                                       | ≅ 8,0<br>≅ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 70                                                            | <b>ADuM 2211</b>          | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0<br>≅ 8,5 <sup>3)</sup>                                                                       | ≅ 8,0<br>≅ 8,5 <sup>3)</sup>                                                             | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +100<br>... +125 <sup>1)</sup>                                                   | -55 ... +150                                                                        |
| 71                                                            | <b>ADuM 6200 (A;C)RIZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≅ 8,5                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 72                                                            | <b>ADuM 6201 (A;C)RIZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≅ 8,5                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 73                                                            | <b>ADuM 6202 (A;C)RIZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≅ 8,5                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 74                                                            | <b>ADuM 6400 (A;C)RIZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≅ 8,5                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 75                                                            | <b>ADuM 6401 (A;C)RIZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≅ 8,5                                                                                    | 849                                                                                                                 | 6000                                                                                                           |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>$U_{ORM}$ [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>$U_{IOTM}$ [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>$T_{amb}$ [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>$T_{sig}$ [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 76                                                            | ADuM 6402 (A;C)RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≥ 8,5                                                                                    | 849                                                                                                          | 6000                                                                                                   | 1_600B                                                                            | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 77                                                            | ADuM 6403 (A;C)RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≥ 8,5                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 78                                                            | ADuM 6404 (A;C)RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≥ 8,5                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 79                                                            | ADuM 3211                 | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/100/21                               | -40 ... +100                                                                      | -55 ... +150                                                                 |
| 80                                                            | ADuM3470                  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,1                                                                                              | ≥ 5,1                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 81                                                            | ADuM3471                  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,1                                                                                              | ≥ 5,1                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 82                                                            | ADuM3472                  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,1                                                                                              | ≥ 5,1                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 83                                                            | ADuM3473                  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,1                                                                                              | ≥ 5,1                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 84                                                            | ADuM3474                  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,1                                                                                              | ≥ 5,1                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 85                                                            | ADM 2481                  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 560                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                       | -55 ... +150                                                                 |
| 86                                                            | ADuM 1280 (A;B;C) RZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 87                                                            | ADuM 1281 (A;B;C) RZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 88                                                            | ADuM 1285 (A;B;C) RZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>OTM</sub> [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 89                                                            | ADuM 1286 (A;B;C) RZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4000                                                                                                         | 1_600B                                                                            | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 90                                                            | ADM3052BRWZ               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 846                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -55 ... +150                                                                        |
| 91                                                            | ADM3054BRWZ               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 846                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -55 ... +150                                                                        |
| 92                                                            | ADuM3070ARQZ              | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 3,1                                                                                              | ≥ 3,1                                                                                    | 565                                                                                                                 | 3500                                                                                                         |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 93                                                            | ADuM3223 (A;B;C) RZ       | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 94                                                            | ADuM4223 (A;B;C) RWZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 846                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 95                                                            | ADM2682EBRIZ              | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 846                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -55 ... +150                                                                        |
| 96                                                            | ADM2687EBRIZ              | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 846                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -55 ... +150                                                                        |
| 97                                                            | ADuM4070ARIZ              | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 98                                                            | ADuM4470 (A;C) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 99                                                            | ADuM4471 (A;C) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 100                                                           | ADuM4472 (A;C) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 101                                                           | ADuM4473 (A;C) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationssp.<br><i>Max. repetitive peak isolation voltage</i><br>$U_{ORM}$ [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>$U_{IOTM}$ [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>$T_{amb}$ [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>$T_{sig}$ [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 102                                                           | ADuM4474 (A;C) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   | 1_600B                                                                            | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 103                                                           | ADuM5010ARSZ              | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 104                                                           | ADuM5210 (A;B;C) RSZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 105                                                           | ADuM5211 (A;B;C) RSZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 106                                                           | ADuM5212 (A;B;C) RSZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 107                                                           | ADuM6010ARSZ              | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 108                                                           | ADuM6210 (A;B;C) RSZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 109                                                           | ADuM6211 (A;B;C) RSZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 110                                                           | ADuM6212 (A;B;C) RSZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                      | -55 ... +150                                                                 |
| 111                                                           | ADuM2280 (A;B;C) RIZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 112                                                           | ADuM2281 (A;B;C) RIZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 113                                                           | ADuM2285 (A;B;C) RIZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 114                                                           | ADuM2286 (A;B;C) RIZ      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationsspg.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>OTM</sub> [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 115                                                           | ADuM3480 (A;B) RSZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 560                                                                                                                  | 4000                                                                                                         | 1_600B                                                                            | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 116                                                           | ADuM3481 (A;B) RSZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 560                                                                                                                  | 4000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 117                                                           | ADuM3482 (A;B) RSZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 560                                                                                                                  | 4000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 118                                                           | AD7402BRIZ                | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≥ 8,5                                                                                    | 1200                                                                                                                 | 7000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 119                                                           | AD7403BRIZ                | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≥ 8,5                                                                                    | 1200                                                                                                                 | 7000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 120                                                           | AD7405BRIZ                | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≥ 8,5                                                                                    | 1200                                                                                                                 | 7000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 121                                                           | AD7402-8BRIZ              | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≥ 8,5                                                                                    | 1200                                                                                                                 | 7000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 122                                                           | AD7403-8BRIZ              | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,5                                                                                              | ≥ 8,5                                                                                    | 1200                                                                                                                 | 7000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 123                                                           | ADE7912ARIZ               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 846                                                                                                                  | 6000                                                                                                         |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -65 ... +150                                                                        |
| 124                                                           | ADE7913ARIZ               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 846                                                                                                                  | 6000                                                                                                         |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -65 ... +150                                                                        |
| 125                                                           | ADE7932ARIZ               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 846                                                                                                                  | 6000                                                                                                         |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -65 ... +150                                                                        |
| 126                                                           | ADE7933ARIZ               | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 846                                                                                                                  | 6000                                                                                                         |                                                                                   | 2                                             | 40/085/21                               | -40 ... +85                                                                              | -65 ... +150                                                                        |
| 127                                                           | ADuM4150 (A;B) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                                  | 6000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |



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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationssp.<br><i>Max. repetitive peak isolation voltage</i><br>$U_{ORM}$ [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>$U_{IOTM}$ [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>$T_{amb}$ [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>$T_{sig}$ [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 128                                                           | ADuM4151 (A;B) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   | 1_600B                                                                            | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 129                                                           | ADuM4152 (A;B) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 130                                                           | ADuM4153 (A;B) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 131                                                           | ADuM4154 (A;B) RIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 132                                                           | ADuM1240 A RZ             | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 133                                                           | ADuM1241 A RZ             | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 134                                                           | ADuM1245 A RZ             | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 135                                                           | ADuM1246 A RZ             | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 136                                                           | ADuM1240 A RSZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 137                                                           | ADuM1241 A RSZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 138                                                           | ADuM1245 A RSZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 139                                                           | ADuM1246 A RSZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 140                                                           | ADuM3150 B RSZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 565                                                                                                          | 5000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |



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| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>$U_{ORM}$ [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>$U_{IOTM}$ [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>$T_{amb}$ [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>$T_{sig}$ [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 141                                                           | ADuM3151 (A;B) RSZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 565                                                                                                          | 5000                                                                                                   | 1_600B                                                                            | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 142                                                           | ADuM3152 (A;B) RSZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 565                                                                                                          | 5000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 143                                                           | ADuM3153 (A;B) RSZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 565                                                                                                          | 5000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 144                                                           | ADuM3154 (A;B) RSZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 565                                                                                                          | 5000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 145                                                           | ADuM3190 (A;B) RQZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 3,2$                                                                                         | $\geq 3,2$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 146                                                           | ADuM3190 (S;T) RQZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 3,2$                                                                                         | $\geq 3,2$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 147                                                           | ADuM1440 A RQZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 3,2$                                                                                         | $\geq 3,2$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 148                                                           | ADuM1441 A RQZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 3,2$                                                                                         | $\geq 3,2$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 149                                                           | ADuM1442 A RQZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 3,2$                                                                                         | $\geq 3,2$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 150                                                           | ADuM1445 A RQZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 3,2$                                                                                         | $\geq 3,2$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 151                                                           | ADuM1446 A RQZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 3,2$                                                                                         | $\geq 3,2$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 152                                                           | ADuM1447 A RQZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 3,2$                                                                                         | $\geq 3,2$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 153                                                           | ADuM1440 A RSZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i>    | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>$U_{ORM}$ [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>$U_{IOTM}$ [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>$T_{amb}$ [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>$T_{sig}$ [°C] |
|---------------------------------------------------------------|------------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 154                                                           | <b>ADuM1441 A RSZ</b>        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 849                                                                                                          | 6000                                                                                                   | 1_600B                                                                            | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 155                                                           | <b>ADuM1442 A RSZ</b>        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 156                                                           | <b>ADuM1445 A RSZ</b>        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 157                                                           | <b>ADuM1446 A RSZ</b>        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 158                                                           | <b>ADuM1447 A RSZ</b>        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 5,3$                                                                                         | $\geq 5,3$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 159                                                           | <b>ADuM1480 (A;B;C) RWZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 8,0$                                                                                         | $\geq 8,0$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 160                                                           | <b>ADuM1481 (A;B;C) RWZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 8,0$                                                                                         | $\geq 8,0$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 161                                                           | <b>ADuM1482 (A;B;C) RWZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 8,0$                                                                                         | $\geq 8,0$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 162                                                           | <b>ADuM1485 (A;B;C) RWZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 8,0$                                                                                         | $\geq 8,0$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 163                                                           | <b>ADuM1486 (A;B;C) RWZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 8,0$                                                                                         | $\geq 8,0$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 164                                                           | <b>ADuM1487 (A;B;C) RWZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 8,0$                                                                                         | $\geq 8,0$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 165                                                           | <b>ADuM3224 W(A;B;C) RZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 4,0$                                                                                         | $\geq 4,0$                                                                               | 565                                                                                                          | 4000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |
| 166                                                           | <b>ADuM4224 W(A;B;C) RWZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | $\geq 8,0$                                                                                         | $\geq 8,0$                                                                               | 849                                                                                                          | 6000                                                                                                   |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -55 ... +150                                                                 |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>OTM</sub> [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 167                                                           | <b>ADuM4190 (A;B) RIZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                                 | 6000                                                                                                         | 1_600B                                                                            | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 168                                                           | <b>ADuM4190 (S;T) RIZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 849                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 169                                                           | <b>ADM3260 A RSZ</b>      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 5,3                                                                                              | ≥ 5,3                                                                                    | 560                                                                                                                 | 3535                                                                                                         |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -40 ... +150                                                                        |
| 170                                                           | <b>AD71166</b>            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -55 ... +150                                                                        |
| 171                                                           | <b>ADW80035ARWZ</b>       | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/105/21                               | -40 ... +105                                                                             | -55 ... +150                                                                        |
| 172                                                           | <b>ADW70015Z</b>          | CMOS Transformer chip   | CMOS chip                | 2,54                                                                      | ≥ 7,5                                                                                              | ≥ 7,5                                                                                    | 891                                                                                                                 | 6000                                                                                                         |                                                                                   | 2                                             | 40/100/21<br>40/125/21 <sup>1)</sup>    | -40 ... +125                                                                             | -40 ... +150                                                                        |
| 173                                                           | <b>AD7403TRIZ-EP</b>      | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,3                                                                                              | ≥ 8,3                                                                                    | 1250                                                                                                                | 8000                                                                                                         |                                                                                   | 2                                             | 55/125/21                               | -55 ... +125                                                                             | -65 ... +150                                                                        |
| 174                                                           | <b>ADuM110N(0;1) BRZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 175                                                           | <b>ADuM110N(0;1) WBRZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 176                                                           | <b>ADuM120N(0;1) BRZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 177                                                           | <b>ADuM120N(0;1) WBRZ</b> | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 178                                                           | <b>ADuM210N(0;1) BRZ</b>  | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 8000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung Magnetic and Capacitive Coupler for Reinforced Isolation

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s)      | Eingang<br>Input      | Ausgang<br>Output | Lay-Out Footprint – minimum<br>Lay-Out Footprint – minimum<br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br>External creepage distance Input - Output<br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br>External clearance Input - Output<br>[mm] | Max. periodische Spitzenisolationspg.<br>Max. repetitive peak isolation voltage<br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br>Maximum transient isolation voltage<br>U <sub>OTM</sub> [V peak] | Kriechstromfestigkeit – Siehe Anlage<br>Tracking resistance – See Appendix | Verschmutzungsgrad<br>Pollution degree | Klimaklasse<br>Climatic category | Betriebstemperaturbereich<br>Operating temperature range<br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br>Storage temperature range<br>T <sub>stg</sub> [°C] |
|--------------------------------------------------------|-------------------------|-----------------------|-------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------|----------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 179                                                    | ADuM210N(0;1) WBRZ      | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 849                                                                                                          | 8000                                                                                                  | 1_600B                                                                     | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 180                                                    | ADuM140(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 565                                                                                                          | 5300                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 181                                                    | ADuM141(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 565                                                                                                          | 5300                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 182                                                    | ADuM142(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 565                                                                                                          | 5300                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 183                                                    | ADuM130(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 565                                                                                                          | 5300                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 184                                                    | ADuM131(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 565                                                                                                          | 5300                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 185                                                    | ADuM132(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 565                                                                                                          | 5300                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 186                                                    | ADuM240(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 849                                                                                                          | 8000                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 187                                                    | ADuM241(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 849                                                                                                          | 8000                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 188                                                    | ADuM242(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 849                                                                                                          | 8000                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 189                                                    | ADuM230(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 849                                                                                                          | 8000                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 190                                                    | ADuM231(D;E)(0;1) BRWZ  | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 849                                                                                                          | 8000                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 191                                                    | ADuM140(D;E)(0;1) WBRWZ | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≥ 8,0                                                                             | 565                                                                                                          | 5300                                                                                                  |                                                                            | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>$U_{ORM}$ [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>$U_{OTM}$ [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>$T_{amb}$ [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>$T_{sig}$ [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 192                                                           | ADuM141(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 565                                                                                                          | 5300                                                                                                  | 1_600B                                                                            | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 193                                                           | ADuM142(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 565                                                                                                          | 5300                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 194                                                           | ADuM130(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 565                                                                                                          | 5300                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 195                                                           | ADuM131(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 565                                                                                                          | 5300                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 196                                                           | ADuM132(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 565                                                                                                          | 5300                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 197                                                           | ADuM240(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                          | 8000                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 198                                                           | ADuM241(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                          | 8000                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 199                                                           | ADuM242(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                          | 8000                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 200                                                           | ADuM230(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                          | 8000                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 201                                                           | ADuM231(D;E)(0;1) WBRWZ   | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                          | 8000                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 202                                                           | ADuM140(D;E)(0;1) BRZ     | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4200                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 203                                                           | ADuM141(D;E)(0;1) BRZ     | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4200                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |
| 204                                                           | ADuM142(D;E)(0;1) BRZ     | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                          | 4200                                                                                                  |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                      | -65 ... +150                                                                 |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Eingang<br><i>Input</i> | Ausgang<br><i>Output</i> | Lay-Out Footprint – minimum<br><i>Lay-Out Footprint – minimum</i><br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br><i>External creepage distance Input - Output</i><br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br><i>External clearance Input - Output</i><br>[mm] | Max. periodische Spitzenisolationspg.<br><i>Max. repetitive peak isolation voltage</i><br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br><i>Maximum transient isolation voltage</i><br>U <sub>OTM</sub> [V peak] | Kriechstromfestigkeit – Siehe Anlage<br><i>Tracking resistance – See Appendix</i> | Verschmutzungsgrad<br><i>Pollution degree</i> | Klimaklasse<br><i>Climatic category</i> | Betriebstemperaturbereich<br><i>Operating temperature range</i><br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br><i>Storage temperature range</i><br>T <sub>stg</sub> [°C] |
|---------------------------------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 205                                                           | ADuM130(D;E)(0;1) BRZ     | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         | 1_600B                                                                            | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 206                                                           | ADuM131(D;E)(0;1) BRZ     | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 207                                                           | ADuM132(D;E)(0;1) BRZ     | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 208                                                           | ADuM140(D;E)(0;1) WBRZ    | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 209                                                           | ADuM141(D;E)(0;1) WBRZ    | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 210                                                           | ADuM142(D;E)(0;1) WBRZ    | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 211                                                           | ADuM130(D;E)(0;1) WBRZ    | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 212                                                           | ADuM131(D;E)(0;1) WBRZ    | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 213                                                           | ADuM132(D;E)(0;1) WBRZ    | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 4,0                                                                                              | ≥ 4,0                                                                                    | 565                                                                                                                 | 4200                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 214                                                           | ADuM225N(0;1) BRIZ        | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 8000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 215                                                           | ADuM226N(0;1) WBRIZ       | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 8000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 216                                                           | ADuM4135 BRWZ             | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 8000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |
| 217                                                           | ADuM4135 WBRWZ            | CMOS Transformer chip   | CMOS chip                | 1,27                                                                      | ≥ 8,0                                                                                              | ≥ 8,0                                                                                    | 849                                                                                                                 | 8000                                                                                                         |                                                                                   | 2                                             | 40/125/21                               | -40 ... +125                                                                             | -65 ... +150                                                                        |

|                                  |                          |                                  |          |                              |        |                 |         |                 |            |
|----------------------------------|--------------------------|----------------------------------|----------|------------------------------|--------|-----------------|---------|-----------------|------------|
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## Magnetische und kapazitive Koppler für Verstärkte Isolierung Magnetic and Capacitive Coupler for Reinforced Isolation

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s) | Eingang<br>Input      | Ausgang<br>Output | Lay-Out Footprint – minimum<br>Lay-Out Footprint – minimum<br>[mm] | Äußere Kriechstrecke Eingang - Ausgang<br>External creepage distance Input - Output<br>[mm] | Äußere Luftstrecke Eingang - Ausgang<br>External clearance Input - Output<br>[mm] | Max. periodische Spitzenisolationspg.<br>Max. repetitive peak isolation voltage<br>U <sub>ORM</sub> [V peak] | Maximale Impulsisolationsspannung<br>Maximum transient isolation voltage<br>U <sub>IO</sub> TM [V peak] | Kriechstromfestigkeit – Siehe Anlage<br>Tracking resistance – See Appendix | Verschmutzungsgrad<br>Pollution degree | Klimaklasse<br>Climatic category | Betriebstemperaturbereich<br>Operating temperature range<br>T <sub>amb</sub> [°C] | Lagertemperaturbereich<br>Storage temperature range<br>T <sub>stg</sub> [°C] |
|--------------------------------------------------------|--------------------|-----------------------|-------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------|----------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 218                                                    | ADM2795E BRWZ      | CMOS Transformer chip | CMOS chip         | 1,27                                                               | ≥ 8,0                                                                                       | ≈ 8,0                                                                             | 849                                                                                                          | 7000                                                                                                    | 1_600B                                                                     | 2                                      | 40/125/21                        | -40 ... +125                                                                      | -65 ... +150                                                                 |

<sup>1)</sup> Nur mit Zusatz / Only with Suffix : S, T, U, W, Y

<sup>2)</sup> x : bezeichnet unterschiedliche Kanal Anordnung (2, 3, 4) ; y : bezeichnet die Datenrate / x : denotes different channel configurations (2, 3, 4) ; y: denotes the Data Rate

<sup>3)</sup> Nur für Gehäusotyp ,RI' / Only for package type ,RI'



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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Sicherheitsgrenzwerte<br><i>Safety ratings</i>                                          |                                                                                      |                                                                                    | Isolationsstoßspannung (siehe Notiz)<br><i>Surge isolation voltage (see Note)</i><br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br><i>Classification for SMT</i><br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br><i>Package material - Outer</i> | Gehäusematerial - Innen<br><i>Package material - Inner</i> | Zusatz zur Typenbezeichnung<br><i>Addition for type designation</i> | Koppelmaterial<br><i>Coupling material</i>          |
|---------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|
|                                                               |                           | Maximaler Strom<br><i>Maximum current</i><br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br><i>Maximum power dissipation</i><br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br><i>Max. ambient temperature</i><br>T <sub>S</sub> [°C] |                                                                                                                 |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 1                                                             | <b>ADuM 1100</b>          | 160/170                                                                                 | 240                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s<br>215°C/40s                                                                      | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd             | -                                                          | 1)                                                                  | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 2                                                             | <b>ADuM 1200</b>          | 160/170                                                                                 | 240                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 3                                                             | <b>ADuM 1201</b>          | 160/170                                                                                 | 240                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 4                                                             | <b>ADuM 1210</b>          | 160/170                                                                                 | 240                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 5                                                             | <b>ADuM 1300</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 6                                                             | <b>ADuM 1301</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 7                                                             | <b>ADuM 1310</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 8                                                             | <b>ADuM 1400</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 9                                                             | <b>ADuM 1401</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 10                                                            | <b>ADuM 1402</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 11                                                            | <b>ADuM 1410</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 12                                                            | <b>ADM 2486</b>           | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 13                                                            | <b>ADM 2483</b>           | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |



# VDE Prüf- und Zertifizierungsinstitut

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung Magnetic and Capacitive Coupler for Reinforced Isolation

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s) | Sicherheitsgrenzwerte<br>Safety ratings                                           |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge Isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                    | Maximaler Strom<br>Maximum current<br>I <sub>SI</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 14                                                     | AD 7400            | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     | 260°C/10s<br>215°C/40s                                                               | EME-6600H ; G600C<br>Sumitomo Bakelite Co.Ltd       | -                                                   | 1)                                                           | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 15                                                     | AD 7401            | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd      |                                                     |                                                              |                                                     |
| 16                                                     | ADuM 2400          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 17                                                     | ADuM 2401          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 18                                                     | ADuM 2402          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 19                                                     | ADuM 3100          | 160/170                                                                           | 240                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 20                                                     | ADuM 3200          | 160/170                                                                           | 240                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 21                                                     | ADuM 3201          | 160/170                                                                           | 240                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 22                                                     | ADuM 3210          | 160/170                                                                           | 240                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 23                                                     | ADuM 3300          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 24                                                     | ADuM 3301          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 25                                                     | ADuM 3310          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 26                                                     | ADuM 3400          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 27                                                     | ADuM 3401          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Sicherheitsgrenzwerte<br><i>Safety ratings</i>                                           |                                                                                      |                                                                                    | Isolationsstoßspannung (siehe Notiz)<br><i>Surge isolation voltage (see Note)</i><br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br><i>Classification for SMT</i><br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br><i>Package material - Outer</i> | Gehäusematerial - Innen<br><i>Package material - Inner</i> | Zusatz zur Typenbezeichnung<br><i>Addition for type designation</i> | Koppelmaterial<br><i>Coupling material</i>          |
|---------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|
|                                                               |                           | Maximaler Strom<br><i>Maximum current</i><br>I <sub>SI</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br><i>Maximum power dissipation</i><br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br><i>Max. ambient temperature</i><br>T <sub>S</sub> [°C] |                                                                                                                 |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 28                                                            | ADuM 3402                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s<br>215°C/40s                                                                      | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd             | -                                                          | 1)                                                                  | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 29                                                            | ADuM 3410                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 30                                                            | ADuM 1311                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 31                                                            | ADuM 1411                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 32                                                            | ADuM 1412                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 33                                                            | ADuM 1250                 | 160                                                                                      | 540                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s                                                                                   |                                                            |                                                            |                                                                     |                                                     |
| 34                                                            | ADuM 1251                 | 160                                                                                      | 540                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 35                                                            | ADuM 2250                 | 265                                                                                      | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 36                                                            | ADuM 2251                 | 265                                                                                      | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 37                                                            | ADM 2485                  | 265/335                                                                                  | -/-                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s<br>215°C/40s                                                                      |                                                            |                                                            |                                                                     |                                                     |
| 38                                                            | ADM 2490E                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 39                                                            | ADuM 5240                 | 160/170                                                                                  | 540                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s                                                                                   |                                                            |                                                            |                                                                     |                                                     |
| 40                                                            | ADuM 5241                 | 160/170                                                                                  | 540                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 41                                                            | ADuM 5242                 | 160/170                                                                                  | 540                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i>      | Sicherheitsgrenzwerte<br><i>Safety ratings</i>                                          |                                                                                      |                                                                                    | Isolationsstoßspannung (siehe Notiz)<br><i>Surge isolation voltage (see Note)</i><br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br><i>Classification for SMT</i><br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br><i>Package material - Outer</i> | Gehäusematerial - Innen<br><i>Package material - Inner</i> | Zusatz zur Typenbezeichnung<br><i>Addition for type designation</i> | Koppelmaterial<br><i>Coupling material</i>          |
|---------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|
|                                                               |                                | Maximaler Strom<br><i>Maximum current</i><br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br><i>Maximum power dissipation</i><br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br><i>Max. ambient temperature</i><br>T <sub>S</sub> [°C] |                                                                                                                 |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 42                                                            | <b>ADuM 3440</b>               | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s                                                                                   | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd             | -                                                          | 1)                                                                  | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 43                                                            | <b>ADuM 3441</b>               | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 44                                                            | <b>ADuM 3442</b>               | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 45                                                            | <b>AD7400A</b>                 | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s<br>215°C/40s                                                                      | EME-6600H ; G600C<br>Sumitomo Bakelite Co.Ltd              |                                                            |                                                                     |                                                     |
| 46                                                            | <b>AD7401A</b>                 | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 47                                                            | <b>ADuM 2200</b>               | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 48                                                            | <b>ADuM 2201</b>               | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 49                                                            | <b>ADW8420xy</b> <sup>2)</sup> | 160/170                                                                                 | 240                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 50                                                            | <b>ADW8430xy</b> <sup>2)</sup> | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 51                                                            | <b>ADW8440xy</b> <sup>2)</sup> | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 52                                                            | <b>ADM 2491E</b>               | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 53                                                            | <b>ADM 2482E</b>               | 265/335                                                                                 | -/-                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd             |                                                            |                                                                     |                                                     |

<sup>2)</sup> x : bezeichnet unterschiedliche Kanal Anordnung (2, 3, 4) ; y : bezeichnet die Leistungsklasse / x : denotes different channel configurations (2, 3, 4) ; y : denotes the performance grade

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Sicherheitsgrenzwerte<br><i>Safety ratings</i>                                           |                                                                                      |                                                                                    | Isolationsstoßspannung (siehe Notiz)<br><i>Surge isolation voltage (see Note)</i><br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br><i>Classification for SMT</i><br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br><i>Package material - Outer</i> | Gehäusematerial - Innen<br><i>Package material - Inner</i> | Zusatz zur Typenbezeichnung<br><i>Addition for type designation</i> | Koppelmaterial<br><i>Coupling material</i>          |
|---------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|
|                                                               |                           | Maximaler Strom<br><i>Maximum current</i><br>I <sub>SI</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br><i>Maximum power dissipation</i><br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br><i>Max. ambient temperature</i><br>T <sub>S</sub> [°C] |                                                                                                                 |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 54                                                            | ADM 2487E                 | 265/335                                                                                  | -/-                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s<br>215°C/40s<br><br>260°C/10s                                                     | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd             | -                                                          | 1)                                                                  | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 55                                                            | ADM 2484E                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 56                                                            | ADuM1220                  | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 57                                                            | ADuM1223                  | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 58                                                            | ADuM1230                  | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 59                                                            | ADuM1233                  | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 60                                                            | ADuM1234                  | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 61                                                            | ADuM3160                  | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             | G700LY<br>Sumitomo Bakelite Co.Ltd                         |                                                            |                                                                     |                                                     |
| 62                                                            | ADuM4160                  | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 63                                                            | ADuM3220                  | 160/47                                                                                   | 846                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd             |                                                            |                                                                     |                                                     |
| 64                                                            | ADuM3221                  | 160/47                                                                                   | 846                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 65                                                            | ADuM 4400                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 66                                                            | ADuM 4401                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 67                                                            | ADuM 4402                 | 265/335                                                                                  | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Sicherheitsgrenzwerte<br><i>Safety ratings</i>                                          |                                                                                      |                                                                                    | Isolationsstoßspannung (siehe Notiz)<br><i>Surge isolation voltage (see Note)</i><br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br><i>Classification for SMT</i><br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br><i>Package material - Outer</i> | Gehäusematerial - Innen<br><i>Package material - Inner</i> | Zusatz zur Typenbezeichnung<br><i>Addition for type designation</i> | Koppelmaterial<br><i>Coupling material</i>                                                                    |
|---------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|                                                               |                           | Maximaler Strom<br><i>Maximum current</i><br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br><i>Maximum power dissipation</i><br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br><i>Max. ambient temperature</i><br>T <sub>S</sub> [°C] |                                                                                                                 |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 68                                                            | <b>ADuM 6000 ARIZ</b>     | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s                                                                                   | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd             | -                                                          | 1)                                                                  | BL-130B Polyamidic Acid Ester<br>Asahi Kasei Corp.<br><br>I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 69                                                            | <b>ADuM 2210</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 70                                                            | <b>ADuM 2211</b>          | 265/335                                                                                 | 900                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 71                                                            | <b>ADuM 6200 (A;C)RIZ</b> | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 72                                                            | <b>ADuM 6201 (A;C)RIZ</b> | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 73                                                            | <b>ADuM 6202 (A;C)RIZ</b> | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 74                                                            | <b>ADuM 6400 (A;C)RIZ</b> | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 75                                                            | <b>ADuM 6401 (A;C)RIZ</b> | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 76                                                            | <b>ADuM 6402 (A;C)RIZ</b> | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 77                                                            | <b>ADuM 6403 (A;C)RIZ</b> | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 78                                                            | <b>ADuM 6404 (A;C)RIZ</b> | 555                                                                                     | 500                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |
| 79                                                            | <b>ADuM 3211</b>          | 160/170                                                                                 | 240                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                                                                               |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s)   | Sicherheitsgrenzwerte<br>Safety ratings                                           |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge Isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                      | Maximaler Strom<br>Maximum current<br>I <sub>SI</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 80                                                     | ADuM3470             | 1250/50                                                                           | 200                                                                           | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   | 1)                                                           | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 81                                                     | ADuM3471             | 1250/50                                                                           | 200                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 82                                                     | ADuM3472             | 1250/50                                                                           | 200                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 83                                                     | ADuM3473             | 1250/50                                                                           | 200                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 84                                                     | ADuM3474             | 1250/50                                                                           | 200                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 85                                                     | ADM 2481             | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd      |                                                     |                                                              |                                                     |
| 86                                                     | ADuM 1280 (A;B;C) RZ | 290/290                                                                           | 1470                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      | G700LY<br>Sumitomo Bakelite Co.Ltd                  |                                                     |                                                              |                                                     |
| 87                                                     | ADuM 1281 (A;B;C) RZ | 290/290                                                                           | 1470                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 88                                                     | ADuM 1285 (A;B;C) RZ | 290/290                                                                           | 1470                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 89                                                     | ADuM 1286 (A;B;C) RZ | 290/290                                                                           | 1470                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd      |                                                     |                                                              |                                                     |
| 90                                                     | ADM3052BRWZ          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 91                                                     | ADM3054BRWZ          | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

# VDE Prüf- und Zertifizierungsinstitut

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung Magnetic and Capacitive Coupler for Reinforced Isolation

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s)   | Sicherheitsgrenzwerte<br>Safety ratings                                          |                                                                               |                                                                             | Isolationsstoßspannung (siehe Note)<br>Surge isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|----------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                      | Maximaler Strom<br>Maximum current<br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                         |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 92                                                     | ADuM3070ARQZ         | 300                                                                              | 1600                                                                          | 150                                                                         | 6250                                                                                                    | 260°C/10s                                                                            | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   | 1)                                                           | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 93                                                     | ADuM3223 (A;B;C) RZ  | 300/93                                                                           | 1500                                                                          | 150                                                                         | 6250                                                                                                    |                                                                                      | G700LY<br>Sumitomo Bakelite Co.Ltd                  | -                                                   |                                                              |                                                     |
| 94                                                     | ADuM4223 (A;B;C) RWZ | 300/93                                                                           | 1500                                                                          | 150                                                                         | 6250                                                                                                    |                                                                                      |                                                     | -                                                   |                                                              |                                                     |
| 95                                                     | ADM2682EBRIZ         | 265/335                                                                          | 900                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      | EME-6600H ; G700LY<br>Sumitomo Bakelite Co.Ltd      | -                                                   | -                                                            |                                                     |
| 96                                                     | ADM2687EBRIZ         | 265/335                                                                          | 900                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      |                                                     | -                                                   |                                                              |                                                     |
| 97                                                     | ADuM4070ARIZ         | 1250/50                                                                          | 200                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      | G700LY<br>Sumitomo Bakelite Co.Ltd                  | -                                                   |                                                              | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 98                                                     | ADuM4470 (A;C) RIZ   | 1250/50                                                                          | 200                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      |                                                     | -                                                   |                                                              |                                                     |
| 99                                                     | ADuM4471 (A;C) RIZ   | 1250/50                                                                          | 200                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      |                                                     | -                                                   |                                                              |                                                     |
| 100                                                    | ADuM4472 (A;C) RIZ   | 1250/50                                                                          | 200                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      |                                                     | -                                                   |                                                              |                                                     |
| 101                                                    | ADuM4473 (A;C) RIZ   | 1250/50                                                                          | 200                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      |                                                     | -                                                   |                                                              |                                                     |
| 102                                                    | ADuM4474 (A;C) RIZ   | 1250/50                                                                          | 200                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      |                                                     | -                                                   |                                                              |                                                     |
| 103                                                    | ADuM5010ARSZ         | 500/30                                                                           | 150                                                                           | 150                                                                         | 6250                                                                                                    |                                                                                      | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   |                                                              | BL-130B Polyamidic Acid Ester<br>Asahi Kasei Corp.  |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s)   | Sicherheitsgrenzwerte<br>Safety ratings                                           |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge Isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                                                                           |
|--------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|                                                        |                      | Maximaler Strom<br>Maximum current<br>I <sub>SI</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 104                                                    | ADuM5210 (A;B;C) RSZ | 500/30                                                                            | 150                                                                           | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   | -                                                            | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp.<br><br>BL-130B Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 105                                                    | ADuM5211 (A;B;C) RSZ | 500/30                                                                            | 150                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 106                                                    | ADuM5212 (A;B;C) RSZ | 500/30                                                                            | 150                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 107                                                    | ADuM6010ARSZ         | 500/30                                                                            | 150                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 108                                                    | ADuM6210 (A;B;C) RSZ | 500/30                                                                            | 150                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 109                                                    | ADuM6211 (A;B;C) RSZ | 500/30                                                                            | 150                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 110                                                    | ADuM6212 (A;B;C) RSZ | 500/30                                                                            | 150                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 111                                                    | ADuM2280 (A;B;C) RIZ | 125/125                                                                           | 687                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      | G700LY<br>Sumitomo Bakelite Co.Ltd                  |                                                     |                                                              | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp.                                                           |
| 112                                                    | ADuM2281 (A;B;C) RIZ | 125/125                                                                           | 687                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 113                                                    | ADuM2285 (A;B;C) RIZ | 125/125                                                                           | 687                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 114                                                    | ADuM2286 (A;B;C) RIZ | 125/125                                                                           | 687                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |
| 115                                                    | ADuM3480 (A;B) RSZ   | 90/90                                                                             | 500                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                                                                               |



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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s) | Sicherheitsgrenzwerte<br>Safety ratings                                           |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge Isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                    | Maximaler Strom<br>Maximum current<br>I <sub>SI</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 116                                                    | ADuM3481 (A;B) RSZ | 90/90                                                                             | 500                                                                           | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   | -                                                            | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 117                                                    | ADuM3482 (A;B) RSZ | 90/90                                                                             | 500                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 118                                                    | AD7402BRIZ         | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 119                                                    | AD7403BRIZ         | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 120                                                    | AD7405BRIZ         | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 121                                                    | AD7402-8BRIZ       | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      | G700<br>Sumitomo Bakelite Co.Ltd                    |                                                     |                                                              | G600C<br>Sumitomo Bakelite Co.Ltd                   |
| 122                                                    | AD7403-8BRIZ       | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 123                                                    | ADE7912ARIZ        | 840/840                                                                           | 2780                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 124                                                    | ADE7913ARIZ        | 840/840                                                                           | 2780                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      | G600C<br>Sumitomo Bakelite Co.Ltd                   |                                                     |                                                              |                                                     |
| 125                                                    | ADE7932ARIZ        | 840/840                                                                           | 2780                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 126                                                    | ADE7933ARIZ        | 840/840                                                                           | 2780                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 127                                                    | ADuM4150 (A;B) RIZ | 550/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      | G600C<br>Sumitomo Bakelite Co.Ltd                   |                                                     |                                                              | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 128                                                    | ADuM4151 (A;B) RIZ | 550/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s) | Sicherheitsgrenzwerte<br>Safety ratings                                           |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge Isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                    | Maximaler Strom<br>Maximum current<br>I <sub>SI</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 129                                                    | ADuM4152 (A;B) RIZ | 550/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   | -                                                            | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 130                                                    | ADuM4153 (A;B) RIZ | 550/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      | G700LY<br>Sumitomo Bakelite Co.Ltd                  |                                                     |                                                              |                                                     |
| 131                                                    | ADuM4154 (A;B) RIZ | 550/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 132                                                    | ADuM1240 A RZ      | 500/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 133                                                    | ADuM1241 A RZ      | 500/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      | G600C<br>Sumitomo Bakelite Co.Ltd                   |                                                     |                                                              |                                                     |
| 134                                                    | ADuM1245 A RZ      | 500/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 135                                                    | ADuM1246 A RZ      | 500/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 136                                                    | ADuM1240 A RSZ     | 500/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 137                                                    | ADuM1241 A RSZ     | 500/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 138                                                    | ADuM1245 A RSZ     | 500/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 139                                                    | ADuM1246 A RSZ     | 500/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 140                                                    | ADuM3150 B RSZ     | 550/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 141                                                    | ADuM3151 (A;B) RSZ | 550/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 142                                                    | ADuM3152 (A;B) RSZ | 550/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s) | Sicherheitsgrenzwerte<br>Safety ratings                                          |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|--------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                    | Maximaler Strom<br>Maximum current<br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 143                                                    | ADuM3153 (A;B) RSZ | 550/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   | -                                                            | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 144                                                    | ADuM3154 (A;B) RSZ | 550/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 145                                                    | ADuM3190 (A;B) RQZ | 68/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 146                                                    | ADuM3190 (S;T) RQZ | 68/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 147                                                    | ADuM1440 A RQZ     | 320/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 148                                                    | ADuM1441 A RQZ     | 320/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 149                                                    | ADuM1442 A RQZ     | 320/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 150                                                    | ADuM1445 A RQZ     | 320/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 151                                                    | ADuM1446 A RQZ     | 320/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 152                                                    | ADuM1447 A RQZ     | 320/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 153                                                    | ADuM1440 A RSZ     | 500/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 154                                                    | ADuM1441 A RSZ     | 500/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 155                                                    | ADuM1442 A RSZ     | 500/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 156                                                    | ADuM1445 A RSZ     | 500/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s)    | Sicherheitsgrenzwerte<br>Safety ratings                                          |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                       | Maximaler Strom<br>Maximum current<br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 157                                                    | ADuM1446 A RSZ        | 500/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   | -                                                            | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 158                                                    | ADuM1447 A RSZ        | 500/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 159                                                    | ADuM1480 (A;B;C) RWZ  | 560/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 160                                                    | ADuM1481 (A;B;C) RWZ  | 560/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 161                                                    | ADuM1482 (A;B;C) RWZ  | 560/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 162                                                    | ADuM1485 (A;B;C) RWZ  | 560/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 163                                                    | ADuM1486 (A;B;C) RWZ  | 560/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 164                                                    | ADuM1487 (A;B;C) RWZ  | 560/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 165                                                    | ADuM3224 W(A;B;C) RZ  | 82/50                                                                            | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 166                                                    | ADuM4224 W(A;B;C) RWZ | 139/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 167                                                    | ADuM4190 (A;B) RIZ    | 116/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      | G700LY<br>Sumitomo Bakelite Co.Ltd                  |                                                     |                                                              |                                                     |
| 168                                                    | ADuM4190 (S;T) RIZ    | 116/50                                                                           | -                                                                             | 150                                                                         | 6250                                                                                                     |                                                                                      | G600C<br>Sumitomo Bakelite Co.Ltd                   |                                                     |                                                              |                                                     |
| 169                                                    | ADM3260 A RSZ         | 212                                                                              | 150                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s)     | Sicherheitsgrenzwerte<br>Safety ratings                                           |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge Isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                        | Maximaler Strom<br>Maximum current<br>I <sub>SI</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 170                                                    | AD71166                | 290/290                                                                           | 1470                                                                          | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G600C<br>Sumitomo Bakelite Co.Ltd                   | -                                                   | -                                                            | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 171                                                    | ADW80035ARWZ           | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | EME-6600H<br>Sumitomo Bakelite Co.Ltd               |                                                     |                                                              |                                                     |
| 172                                                    | ADW70015Z              | 265/335                                                                           | 900                                                                           | 150                                                                         | 6250                                                                                                     | 260°C/10s<br>215°C/40s                                                               | EME-6600H ; G600C<br>Sumitomo Bakelite Co.Ltd       |                                                     |                                                              |                                                     |
| 173                                                    | AD7403TRIZ-EP          | 840/840                                                                           | 2780                                                                          | 150                                                                         | 7500                                                                                                     | 260°C/10s                                                                            | G700LY<br>Sumitomo Bakelite Co.Ltd                  |                                                     |                                                              | EN 4900GC<br>Hitachi                                |
| 174                                                    | ADuM110N(0;1) BRZ      | 270/270                                                                           | 1350                                                                          | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G700LY<br>Sumitomo Bakelite Co.Ltd                  |                                                     |                                                              | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 175                                                    | ADuM110N(0;1) WBRZ     | 270/270                                                                           | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 176                                                    | ADuM120N(0;1) BRZ      | 160/160                                                                           | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 177                                                    | ADuM120N(0;1) WBRZ     | 160/160                                                                           | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 178                                                    | ADuM210N(0;1) BRZ      | 160/160                                                                           | 790                                                                           | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 179                                                    | ADuM210N(0;1) WBRZ     | 160/160                                                                           | 790                                                                           | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 180                                                    | ADuM140(D;E)(0;1) BRWZ | 270/270                                                                           | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s)      | Sicherheitsgrenzwerte<br>Safety ratings                                          |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                         | Maximaler Strom<br>Maximum current<br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 181                                                    | ADuM141(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G700LY<br>Sumitomo Bakelite Co.Ltd                  | -                                                   | -                                                            | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 182                                                    | ADuM142(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 183                                                    | ADuM130(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 184                                                    | ADuM131(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 185                                                    | ADuM132(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 186                                                    | ADuM240(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 187                                                    | ADuM241(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 188                                                    | ADuM242(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 189                                                    | ADuM230(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 190                                                    | ADuM231(D;E)(0;1) BRWZ  | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 191                                                    | ADuM140(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 192                                                    | ADuM141(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 193                                                    | ADuM142(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 194                                                    | ADuM130(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br>Position in VDE-Certificate | Typ(en)<br>Type(s)      | Sicherheitsgrenzwerte<br>Safety ratings                                          |                                                                               |                                                                             | Isolationsstoßspannung (siehe Notiz)<br>Surge isolation voltage (see Note)<br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br>Classification for SMT<br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br>Package material - Outer | Gehäusematerial - Innen<br>Package material - Inner | Zusatz zur Typenbezeichnung<br>Addition for type designation | Koppelmaterial<br>Coupling material                 |
|--------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
|                                                        |                         | Maximaler Strom<br>Maximum current<br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br>Maximum power dissipation<br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br>Max. ambient temperature<br>T <sub>S</sub> [°C] |                                                                                                          |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 195                                                    | ADuM131(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     | 260°C/10s                                                                            | G700LY<br>Sumitomo Bakelite Co.Ltd                  | -                                                   | -                                                            | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 196                                                    | ADuM132(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 197                                                    | ADuM240(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 198                                                    | ADuM241(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 199                                                    | ADuM242(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 200                                                    | ADuM230(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 201                                                    | ADuM231(D;E)(0;1) WBRWZ | 270/270                                                                          | 1350                                                                          | 150                                                                         | 8000                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 202                                                    | ADuM140(D;E)(0;1) BRZ   | 160/160                                                                          | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 203                                                    | ADuM141(D;E)(0;1) BRZ   | 160/160                                                                          | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 204                                                    | ADuM142(D;E)(0;1) BRZ   | 160/160                                                                          | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 205                                                    | ADuM130(D;E)(0;1) BRZ   | 160/160                                                                          | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 206                                                    | ADuM131(D;E)(0;1) BRZ   | 160/160                                                                          | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 207                                                    | ADuM132(D;E)(0;1) BRZ   | 160/160                                                                          | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |
| 208                                                    | ADuM140(D;E)(0;1) WBRZ  | 160/160                                                                          | 790                                                                           | 150                                                                         | 6250                                                                                                     |                                                                                      |                                                     |                                                     |                                                              |                                                     |

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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

| Position im VDE-Ausweis<br><i>Position in VDE-Certificate</i> | Typ(en)<br><i>Type(s)</i> | Sicherheitsgrenzwerte<br><i>Safety ratings</i>                                          |                                                                                      |                                                                                    | Isolationsstoßspannung (siehe Notiz)<br><i>Surge isolation voltage (see Note)</i><br>U <sub>IOSM</sub> [V peak] | Klassifizierung für SMT<br><i>Classification for SMT</i><br>nach / according IEC 60068-2-58 | Gehäusematerial - Außen<br><i>Package material - Outer</i> | Gehäusematerial - Innen<br><i>Package material - Inner</i> | Zusatz zur Typenbezeichnung<br><i>Addition for type designation</i> | Koppelmaterial<br><i>Coupling material</i>          |
|---------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|
|                                                               |                           | Maximaler Strom<br><i>Maximum current</i><br>I <sub>S</sub> [mA] / I <sub>SO</sub> [mA] | Maximale Verlustleistung<br><i>Maximum power dissipation</i><br>P <sub>SO</sub> [mW] | Max. Umgebungstemperatur<br><i>Max. ambient temperature</i><br>T <sub>S</sub> [°C] |                                                                                                                 |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 209                                                           | ADuM141(D;E)(0;1) WBRZ    | 160/160                                                                                 | 790                                                                                  | 150                                                                                | 6250                                                                                                            | 260°C/10s                                                                                   | G700LY<br>Sumitomo Bakelite Co.Ltd                         | -                                                          | -                                                                   | I-8124ER Polyamidic Acid Ester<br>Asahi Kasei Corp. |
| 210                                                           | ADuM142(D;E)(0;1) WBRZ    | 160/160                                                                                 | 790                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 211                                                           | ADuM130(D;E)(0;1) WBRZ    | 160/160                                                                                 | 790                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 212                                                           | ADuM131(D;E)(0;1) WBRZ    | 160/160                                                                                 | 790                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 213                                                           | ADuM132(D;E)(0;1) WBRZ    | 160/160                                                                                 | 790                                                                                  | 150                                                                                | 6250                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 214                                                           | ADuM225N(0;1) BRIZ        | 160/160                                                                                 | 790                                                                                  | 150                                                                                | 10000                                                                                                           |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 215                                                           | ADuM226N(0;1) WBRIZ       | 160/160                                                                                 | 790                                                                                  | 150                                                                                | 10000                                                                                                           |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 216                                                           | ADuM4135 BRWZ             | 270/270                                                                                 | 1350                                                                                 | 150                                                                                | 8000                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 217                                                           | ADuM4135 WBRWZ            | 270/270                                                                                 | 1350                                                                                 | 150                                                                                | 8000                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |
| 218                                                           | ADM2795E BRWZ             | 370/370                                                                                 | 1800                                                                                 | 150                                                                                | 8000                                                                                                            |                                                                                             |                                                            |                                                            |                                                                     |                                                     |



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## Magnetische und kapazitive Koppler für Verstärkte Isolierung *Magnetic and Capacitive Coupler for Reinforced Isolation*

### Anmerkung / Note :

Die Prüfspannung für die genehmigte Isolationsstoßspannung beträgt  $1,6 \cdot U_{IOSM} = 10kV$  / *The Test voltage for the approved Surge Isolation Voltage is  $1,6 \cdot U_{IOSM} = 10kV$*

- 1)
- |            |                          |                                                                                                                                  |
|------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1er Zusatz | W                        | – bezeichnet Typ für Automotiv Anwendung                                                                                         |
| 2er Zusatz | A, B, C                  | – bezeichnet verschiedene Datenraten oder funktionelle Varianten ( in Übereinstimmung mit den Angaben in Anlage 100B bis 109B )  |
|            | S, T, U, W, Y            | – bezeichnet verschiedene Datenraten bei Betriebstemperatur 125°C ( in Übereinstimmung mit den Angaben in Anlage 100B bis 109B ) |
| 3er Zusatz | R, RW                    | – bezeichnet den Gehäusotyp ( Narrow body, Wide body )                                                                           |
|            | NS                       | – nur für Typen unter Position 45 und 46 zugelassen                                                                              |
|            | RI                       | – nur für Typen unter Position 16-18, 47, 48, 62, 65-67                                                                          |
| 4er Zusatz | Z                        | – bezeichnet bleifreie Typen                                                                                                     |
| 5er Zusatz | 55, 33, 53, 35           | – bezeichnet spezielle Kombinationen der Versorgungsspannung                                                                     |
| 6er Zusatz | -RL, -RL7, -REEL, -REEL7 | – bezeichnet verschiedene Lieferformate                                                                                          |
| 1st suffix | W                        | – denotes an automotive model                                                                                                    |
| 2nd suffix | A, B, C                  | – denotes different Data Rates or functional variants ( in accordance with appendix 100B to 109B )                               |
|            | S, T, U, W, Y            | – denotes different Data Rates with operating temperature 125°C ( in accordance with appendix 100B to 109B )                     |
| 3rd suffix | R, RW                    | – denotes package type ( Narrow body, Wide body )                                                                                |
|            | NS                       | – only approved for types at position 45 and 46                                                                                  |
|            | RI                       | – only approved for types at position 16-18, 47, 48, 62, 65-67                                                                   |
| 4th suffix | Z                        | – denotes lead-free package                                                                                                      |
| 5th suffix | 55, 33, 53, 35           | – denotes a specific supply voltage combination                                                                                  |
| 6th suffix | -RL, -RL7, -REEL, -REEL7 | – denotes various type & reel shipment formats                                                                                   |

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Magnetische und kapazitive Koppler für Verstärkte Isolierung  
Magnetic and Capacitive Coupler for Reinforced Isolation

| Äußeres Gehäusematerial<br>Outermold material | Zusätzliche Normen<br>Additional standards | PTI Prüflösung A<br>PTI test solution A | CTI - Wert<br>CTI - value | PTI Prüflösung B<br>PTI test solution B |
|-----------------------------------------------|--------------------------------------------|-----------------------------------------|---------------------------|-----------------------------------------|
| EME-6600H   Sumitomo Bakelite                 | DIN EN 60112 (VDE 0303 Teil 11):2003-11    | -                                       | 175                       | -                                       |
| G600C   Sumitomo Bakelite                     |                                            | -                                       | 400                       | -                                       |
| G700   Sumitomo Bakelite                      |                                            | -                                       | 400                       | -                                       |
| G700LY   Sumitomo Bakelite                    |                                            | -                                       | 400                       | -                                       |

