



Certificate of Compliance

Certificate: 1646433

Master Contract: 205078

Project: 80006714

Date Issued: 2019-10-31

Issued To: Analog Devices Inc.
804 Woburn St
Wilmington, Massachusetts, 01887-3462
United States

Attention: Mark Cantrell

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator▲



Issued by: *Martin Buchanan*
Martin Buchanan, P. Eng.

PRODUCTS

CLASS - C907330 - ELECTRONIC COMPONENTS Optoisolators

Component Acceptance of Optoisolator Like Magnetic Coupling Devices:

Device	Rating		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
(SOIC 16W RW package) ADuM220xyRWZ ADuM221xyRWZ ADuM225xyRWZ ADuM240xyRWZ ADuM440xyRWZ ADW80035	5.0	≤ 125	CSA 14-18 Tbl 35, 6.2.1.1, 6.2.1.1/6.2.12, 6.8.1.1, 6.21.4.1 60950-1-07+A1+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 61010-1-12+A1 K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10	-	-	7.8
(SOIC 16W RI package) ADuM220xyRIZ ADuM221xyRIZ ADuM225xyRIZ	5.0	≤ 125	60601-1:14 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7 IEC	-	-	8.7



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Device	Rating		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
ADuM240xyRIZ ADuM440xyRIZ			60950-1 2nd Ed.,+A1+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 61010-1 3 rd Ed A1 K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10 60601-1 Ed.3+A1 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7 EN 60950-1:2006+A1+A12+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2			

Suffix x may be 1 digit differentiating devices with different channel direction configurations. Suffix y may be a letter designating different performance grades and RW indicates wide body SOIC. RI indicates long creepage package. Z if used indicates the lead-free version. Suffix EP at the end of the base part number indicates lower extended temperature capability to -55C with a NiPdAu lead finish. Further suffix letters or digits differentiate shipping package formats.

Notes:

1. Devices with RW suffix meet reinforced insulation for 390Vrms and basic insulation for 780Vrms for CSA 60950-1-07+A1+A2, CSA 62368-1-14, IEC 60950-1 2nd Ed.+A1+A2, IEC 62368-1:2014, EN 60950-1+A1+A12+A2 and EN 62368-1:2014/A11:2017. (pollution degree 2, material group III)
2. For CSA 61010-1-12+A1 and IEC 61010-1 3rd Ed. for 600Vrms, overvoltage category III for basic and 300Vrms, overvoltage category II for reinforced insulation, devices with RW suffix meet clauses K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10. The risk management process is not applicable to these clauses. (pollution degree 2, material group III)
3. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 125Vrms, devices with RW suffix meet clauses 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7. The risk management process is not applicable to these clauses. (pollution degree 2, material group III)
4. Models with RI suffix meet basic insulation requirements for 870Vrms and reinforced insulation requirements for 435Vrms for CSA 60950-1-07, 62368-1-14, IEC 60950-1 2nd Ed., 62368-1:2014 and EN60950-1. (pollution degree 2, material group III)
5. For CSA 61010-1-12+A1 and IEC 61010-1 3rd Ed. for 600Vrms, overvoltage category IV for basic and 300Vrms, overvoltage category II for reinforced insulation, devices with RI suffix meet clauses K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10 based on 61010-1 Cl 14.1 a) for use in 61010-1 end products because they meet the requirements of the 62368-1 evaluation. The risk management process is not applicable to these clauses. (pollution degree 2, material group III)
6. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 250Vrms, devices with RI suffix meet clauses 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7. The risk management process is not applicable to these clauses.
7. Case Material: Multiple mold compounds have been evaluated. All meet at least material group II.



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8. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
9. The creepage and clearance has been evaluated for altitudes $\leq 2000\text{m}$, in pollution degree 2 and overvoltage category II except where specified above. (pollution degree 2, material group III).

These devices are Component Accepted as components for use in other Certified equipment where the suitability of the combination shall be determined by investigation of the final application.

APPLICABLE REQUIREMENTS

- CAN/CSA-C22.2 No 14-18 - Industrial Control Equipment
CAN/CSA-C22.2 No 60950-1-07+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)
CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
IEC 60950-1 2nd Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)

Clauses K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10
of

CAN/CSA-C22.2 No. 61010-1-12+A1 2015 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements (Tri-national standard, with UL 61010-1 Ed. 3 and ANSI/ISA-61010-1 (82.02.01)

and

IEC 61010-1:2010 3rd Ed. - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements

Clauses 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7
of

CAN/CSA C22.2 60601-1:14 - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance (Adopted IEC60601-1:2005 Edition 3.0 +Amendment 1, 2012-07, MOD)

and

IEC60601-1:2005 Ed 3.0+A1 - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80006714	2019-10-31	Update for reduced spacing lead frame
000070207285	2018-11-25	Update to 62368-1
000070044580	2016-06-10	Update for alternative mould compound and leadframe
000070054834	2015-12-03	Addition of model ADW80035
0002541408	2012-09-17	Addition of G600C material for RI models
0002449790	2011-08-23	Addition of long creepage models, ADuM2200xRIZ, ADuM2201xRIZ, ADuM2210xRIZ, ADuM2211xRIZ, ADuM2250ARIZ, ADuM2251ARIZ, ADuM2401xRIZ, ADuM2402xRIZ, ADuM2403xRIZ, ADuM4401xRIZ, ADuM4402xRIZ, ADuM4403xRIZ
0002413552	2011-06-14	Addition of ADuM4400, ADuM4401, ADuM4402, ADuM2210, ADuM2211 and update to 60601 3rd Ed and increase of temperature rating up to 125C.
0002373810	2010-11-26	Corrections to Report
0002210803	2009-08-20	report corrections
0002188715	2009-06-18	report correction
0002017404	2008-03-23	Addition of ADuM2200 and ADuM2201 and update to latest standards
0001953129	2007-09-18	Addition of EN60950-1:2001
0001785787	2006-05-03	Addition of ADuM2250 and ADuM2251.
0001699819	2005-10-24	Reduction of thickness of isolating material to 20u for ADuM240x
0001646433	2005-04-15	Original Certification.