

Certificate of Compliance

Certificate Number:

UL-US-L351759-11-
22214102-6

Report Reference:

E351759-20141222

Issue Date:

2025-10-06

Issued to:

**MAXIM INTEGRATED PRODUCTS
160 RIO ROBLES SAN JOSE, CA 95134-1813
United States**

This certificate confirms that representative samples of:
FPPT2 - Nonoptical Isolating Devices - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 1577, Edition 5, Issue Date 2014-04-25, Revision Date 2023-07-06

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



A handwritten signature in black ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number UL-US-L351759-11-22214102-6
Report reference E351759-20141222
Date 2025-10-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Single protection non-optical isolators at 3000 Vac isolation voltage

Model(s): MAX22420, MAX22421

Model(s): ADuM1252ASA+ *May be followed by addition of alphanumeric characters. "+" denotes a lead(Pb)-free/ROHS-compliant package.*

Model(s): ADuM1253ASA+, ADuM1254ASA+, ADuM1255ASA+ *May be followed by additional alphanumeric characters. "+" denotes a lead(Pb)-free/ROHS-compliant package.*

Single protection non-optical isolators at 5000 Vac isolation voltage

Model(s): ADuM1254AWA+ *May be followed by addition of alphanumeric characters. "+" denotes a lead(Pb)-free/ROHS-compliant package.*

Model(s): MAX22820, MAX22821 *May be followed by additional alphanumeric characters.*

Model(s): ADuM1252AWA+, ADuM1253AWA+, ADuM1255AWA+ *May be followed by additional alphanumeric characters. "+" denotes a lead(Pb)-free/ROHS-compliant package.*

Single protection nonoptical isolators 3000 Vac isolation voltage

Model(s): MAX22163, MAX22290, MAX22291, MAX22700DASA+, MAX22700EASA+, MAX22701DASA+, MAX22701EASA+, MAX22702DASA+, MAX22702EASA+

Single protection nonoptical isolators 3750 Vac isolation voltage

Model(s): MAX22164, MAX22165, MAX22166, MAX22563, MAX22564, MAX22565, MAX22566

Single protection nonoptical isolators 5000 Vac isolation voltage

Model(s): MAX12931BAWE, MAX12934BAWE, MAX12934CAWE, MAX12934EAW, MAX12934FAWE, MAX12935BAWE, MAX12935CAWE, MAX12935EAW, MAX12935FAWE, MAX14434BAWE+, MAX14434CAWE+, MAX14434EAW+, MAX14434FAWE+, MAX14435BAWE+, MAX14435CAWE+, MAX14435EAW+, MAX14435FAWE+, MAX14435RAW+, MAX14435SAWE+, MAX14435UAW+, MAX14435VAWE+, MAX14436BAWE+, MAX14436CAWE+, MAX14436EAW+, MAX14436FAWE+, MAX14934, MAX14935, MAX14936, MAX14937, MAX22245BAWA+, MAX22245CAWA+, MAX22245EAWA+, MAX22245FAWA+, MAX22246BAWA+, MAX22246CAWA+, MAX22246EAWA+, MAX22246FAWA+, MAX22444BAWE+, MAX22444CAWE+, MAX22444EAW+, MAX22444FAWE+, MAX22444MAWE+, MAX22444NAWE+, MAX22445BAWE+, MAX22445CAWE+, MAX22445EAW+, MAX22445FAWE+, MAX22445MAWE+, MAX22445NAWE+, MAX22445RAW+, MAX22445SAWE+, MAX22445UAW+, MAX22445VAWE+, MAX22446BAWE+, MAX22446CAWE+, MAX22446EAW+, MAX22446FAWE+, MAX22446MAWE+, MAX22446NAWE+, MAX22663, MAX22664, MAX22665, MAX22666

Single protection nonoptical isolators max. 3000 Vac isolation voltage

Model(s): MAX12930BASA, MAX12930CASA, MAX12930EASA, MAX12930FASA, MAX12931BASA, MAX12931CASA, MAX12931EASA, MAX12931FASA, MAX22440CAEE+, MAX22440FAEE+, MAX22441CAEE+, MAX22441FAEE+, MAX22442CAEE+, MAX22442FAEE+

Single protection nonoptical isolators max. 3750 Vac isolation voltage

Model(s): MAX14430, MAX14430BASE+, MAX14430CASE+, MAX14430EASE+, MAX14430FASE+, MAX14431, MAX14431BASE+, MAX14431CASE+, MAX14431EASE+, MAX14431FASE+, MAX14431RASE+, MAX14431SASE+, MAX14431UASE+, MAX14431VASE+, MAX14432BASE+, MAX14432CASE+, MAX14432EASE+, MAX14432FASE+, MAX14483, MAX14930, MAX14931, MAX14932, MAX14933, MAX22344BAAP+, MAX22344CAAP+, MAX22345BAAP+, MAX22345CAAP+, MAX22345RAAP+, MAX22345SAAP+, MAX22346BAAP+, MAX22346CAAP+



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Certificate of Compliance

Certificate Number:

UL-CA-L351759-21-
22214102-5

Report Reference:

E351759-20141222

Issue Date:

2025-10-06

Issued to:

**MAXIM INTEGRATED PRODUCTS
160 RIO ROBLES SAN JOSE, CA 95134-1813
United States**

This certificate confirms that representative samples of:

**FPPT8 - Nonoptical Isolating Devices Certified for Canada -
Component**

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**CSA Component Acceptance Service Notice No. 5A, Issue Date:
1998-01-23**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



A handwritten signature in black ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner

CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-L351759-21-22214102-5
Report reference E351759-20141222
Date 2025-10-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Single protection non-optical isolators at 3000 Vac isolation voltage

Model(s): MAX22420, MAX22421

Single protection non-optical isolators at 5000 Vac isolation voltage

Model(s): MAX22820, MAX22821 *May be followed by additional alphanumeric characters.*

Single protection nonoptical isolators 3000 Vac isolation voltage

Model(s): MAX22163, MAX22290, MAX22291, MAX22700DASA+, MAX22700EASA+, MAX22701DASA+, MAX22701EASA+, MAX22702DASA+, MAX22702EASA+

Single protection nonoptical isolators 3750 Vac isolation voltage

Model(s): MAX22164, MAX22165, MAX22166, MAX22563, MAX22564, MAX22565, MAX22566

Single protection nonoptical isolators 5000 Vac isolation voltage

Model(s): MAX12931BAWE, MAX12934BAWE, MAX12934CAWE, MAX12934EAW, MAX12934FAWE, MAX12935BAWE, MAX12935CAWE, MAX12935EAW, MAX12935FAWE, MAX14434BAWE+, MAX14434CAWE+, MAX14434EAW+, MAX14434FAWE+, MAX14435BAWE+, MAX14435CAWE+, MAX14435EAW+, MAX14435FAWE+, MAX14435RAWE+, MAX14435SAWE+, MAX14435UAW+, MAX14435VAWE+, MAX14436BAWE+, MAX14436CAWE+, MAX14436EAW+, MAX14436FAWE+, MAX14934, MAX14935, MAX14936, MAX14937, MAX22245BAWA+, MAX22245CAWA+, MAX22245EAWA+, MAX22245FAWA+, MAX22246BAWA+, MAX22246CAWA+, MAX22246EAWA+, MAX22246FAWA+, MAX22444BAWE+, MAX22444CAWE+, MAX22444EAW+, MAX22444FAWE+, MAX22444MAWE+, MAX22444NAWE+, MAX22445BAWE+, MAX22445CAWE+, MAX22445EAW+, MAX22445FAWE+, MAX22445MAWE+, MAX22445NAWE+, MAX22445RAWE+, MAX22445SAWE+, MAX22445UAW+, MAX22445VAWE+, MAX22446BAWE+, MAX22446CAWE+, MAX22446EAW+, MAX22446FAWE+, MAX22446MAWE+, MAX22446NAWE+, MAX22663, MAX22664, MAX22665, MAX22666

Single protection nonoptical isolators max. 3000 Vac isolation voltage

Model(s): MAX12930BASA, MAX12930CASA, MAX12930EASA, MAX12930FASA, MAX12931BASA, MAX12931CASA, MAX12931EASA, MAX12931FASA, MAX22440CAEE+, MAX22440FAEE+, MAX22441CAEE+, MAX22441FAEE+, MAX22442CAEE+, MAX22442FAEE+

Single protection nonoptical isolators max. 3750 Vac isolation voltage

Model(s): MAX14430, MAX14430BASE+, MAX14430CASE+, MAX14430EASE+, MAX14430FASE+, MAX14431, MAX14431BASE+, MAX14431CASE+, MAX14431EASE+, MAX14431FASE+, MAX14431RASE+, MAX14431SASE+, MAX14431UASE+, MAX14431VASE+, MAX14432BASE+, MAX14432CASE+, MAX14432EASE+, MAX14432FASE+, MAX14483, MAX14930, MAX14931, MAX14932, MAX14933, MAX22344BAAP+, MAX22344CAAP+, MAX22345BAAP+, MAX22345CAAP+, MAX22345RAAP+, MAX22345SAAP+, MAX22346BAAP+, MAX22346CAAP+



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File E351759
Project 4786513875

Issued: December 22, 2014
Revised: September 15, 2023

REPORT

on

COMPONENT - Nonoptical Isolating Devices - Component

ANALOG **DEVICES** INC.
WILMINGTON, MA

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Single Protection Non-Optical Isolator, Models MAX12930, MAX12931, MAX12934, MAX12935, MAX14430, MAX14431, MAX14432, MAX14434, MAX14435, MAX14436, MAX14483, MAX14930, MAX14931, MAX14932, MAX14933, MAX14934, MAX14935, MAX14936, MAX14937, MAX22163, MAX22164, MAX22165, MAX22166, MAX22245, MAX22246, MAX22290, MAX22291, MAX22344, MAX22345, MAX22346, MAX22420, MAX22421, MAX22440, MAX22441, MAX22442, MAX22444, MAX22445, MAX22446, MAX22563, MAX22564, MAX22565, MAX22566, MAX22663, MAX22664, MAX22665, MAX22666, MAX22700, MAX22701, MAX22702, MAX22820, MAX22821 Series. May be followed by additional alphanumeric characters. "+" denotes a lead(Pb)-free/ROHS-compliant package.

USR - Single Protection Non-Optical Isolator, Models ADuM1252ASA+, ADuM1252AWA+, ADuM1253ASA+, ADuM1253AWA+, ADuM1254ASA+, ADuM1254AWA+, ADuM1255ASA+, ADuM1255AWA+ Series. May be followed by additional alphanumeric characters. "+" denotes a lead(Pb)-free/ROHS-compliant package.

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Encoder (Side 1)	Decoder (Side 2)	Encoder (Side 1)	Decoder (Side 2)					
ADuM1252ASA+	0.349	0.180	1.745	0.9	3000	125	150	150	2
ADuM1252AWA+	0.349	0.180	1.745	0.9	5000	125	150	150	2
ADuM1253ASA+	0.349	0.180	1.745	0.9	3000	125	150	150	2
ADuM1253AWA+	0.349	0.180	1.745	0.9	5000	125	150	150	2
ADuM1254ASA+	0.349	0.180	1.745	0.9	3000	125	150	150	2
ADuM1254AWA+	0.349	0.180	1.745	0.9	5000	125	150	150	2
ADuM1255ASA+	0.349	0.180	1.745	0.9	3000	125	150	150	2
ADuM1255AWA+	0.349	0.180	1.745	0.9	5000	125	150	150	2
MAX12930BASA	0.51	1.52	2.81	8.36	3000	125	150	150	25
MAX12930CASA	1.98	9.55	10.89	52.53	3000	125	150	150	200
MAX12930EASA	0.51	1.52	2.81	8.3	3000	125	150	150	25
MAX12930FASA	1.98	9.5	10.89	52.53	3000	125	150	150	200
MAX12931BASA	0.55	1.43	3.03	7.87	3000	125	150	150	25
MAX12931CASA	2.03	8.84	11.17	48.62	3000	125	150	150	200
MAX12931EASA	0.55	1.43	3.03	7.87	3000	125	150	150	25
MAX12931FASA	2.03	8.84	11.17	48.62	3000	125	150	150	200
MAX12931BAWE	0.5	1.4	2.75	7.7	5000	125	150	150	25
MAX12934BAWE	0.51	1.52	2.81	8.36	5000	125	150	150	25
MAX12934CAWE	1.98	9.55	10.89	52.53	5000	125	150	150	200
MAX12934EAW	0.51	1.52	2.81	8.36	5000	125	150	150	25
MAX12934FAWE	1.98	9.55	10.89	52.53	5000	125	150	150	200
MAX12935BAWE	0.55	1.43	3.03	7.87	5000	125	150	150	25
MAX12935CAWE	2.03	8.84	11.17	48.62	5000	125	150	150	200
MAX12935EAW	0.55	1.43	3.03	7.87	5000	125	150	150	25
MAX12935FAWE	2.03	8.84	11.17	48.62	5000	125	150	150	200
MAX14430BASE+	0.8	2.1	4.4	11.55	3750	125	150	150	25
MAX14430CASE+	2.3	10.5	12.65	57.75	3750	125	150	150	200
MAX14430EAE+	0.8	2.1	4.4	11.55	3000	125	150	150	25
MAX14430EASE+	0.8	2.1	4.4	11.55	3750	125	150	150	25
MAX14430FASE+	2.3	10.5	12.65	57.75	3750	125	150	150	200
MAX14430FASE+C PD	2.1	9.2	11.55	50.6	3750	125	150	150	150
MAX14431BASE+	0.85	2.2	4.7	12.1	3750	125	150	150	25
MAX14431CAEE+	2.1	9.7	11.55	53.35	3000	125	150	150	200
MAX14431CASE+	2.1	9.7	11.55	53.35	3750	125	150	150	200
MAX14431EASE+	0.85	2.2	4.7	12.1	3750	125	150	150	25
MAX14431FASE+	2.3	11.5	12.65	63.25	3750	125	150	150	200
MAX14431SASE+	2.3	11.5	12.65	63.25	3750	125	150	150	200
MAX14431RASE+	0.85	2.2	4.7	12.1	3750	125	150	150	25
MAX14431UASE+	0.85	2.2	4.7	12.1	3750	125	150	150	25
MAX14431VASE+	2.3	11.5	12.65	63.25	3750	125	150	150	200
MAX14431FASE+C PD	2.1	9.7	11.55	53.35	3750	125	150	150	150
MAX14432BASE+	0.9	2.0	4.95	11	3750	125	150	150	25

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT.):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Encoder (Side 1)	Decoder (Side 2)	Encoder (Side 1)	Decoder (Side 2)					
MAX14432CASE+	2.4	11.5	13.2	63.25	3750	125	150	150	200
MAX14432EASE+	0.9	2.0	4.95	11	3750	125	150	150	25
MAX14432FASE+	2.4	11.5	13.2	63.25	3750	125	150	150	200
MAX14434BAWE+	0.8	2.1	4.4	11.55	5000	125	150	150	25
MAX14434CAWE+	2.3	10.5	12.65	57.75	5000	125	150	150	200
MAX14434EAW+	0.8	2.1	4.4	11.55	5000	125	150	150	25
MAX14434FAWE+	2.3	10.5	12.65	57.75	5000	125	150	150	200
MAX14435BAWE+	0.85	2.2	4.7	12.1	5000	125	150	150	25
MAX14435CAWE+	2.1	9.7	11.55	53.35	5000	125	150	150	200
MAX14435EAW+	0.85	2.2	4.7	12.1	5000	125	150	150	25
MAX14435FAWE+	2.1	9.7	11.55	53.35	5000	125	150	150	200
MAX14435SAWE+	2.1	9.7	11.55	53.35	5000	125	150	150	200
MAX14435RAWE+	0.85	2.	4.7	12.1	5000	125	150	150	25
MAX14435UAW+	0.85	2.2	4.7	12.1	5000	125	150	150	25
MAX14435VAWE+	2.1	9.7	11.55	53.35	5000	125	150	150	200
MAX14436BAWE+	0.9	2.0	4.95	11	5000	125	150	150	25
MAX14436CAWE+	2.4	11.5	13.2	63.25	5000	125	150	150	200
MAX14436EAW+	0.9	2.0	4.95	11	5000	125	150	150	25
MAX14436FAWE+	2.4	11.5	13.2	63.25	5000	125	150	150	200
MAX14483	3.1	12.5	17.0	69.0	3750	125	150	150	200
MAX14930A	0.8	2.5	4.4	13.7	3750*	125	150	150	150
MAX14930B	1.1	3.6	6.0	19.8	3750*	125	150	150	150
MAX14930C	2.7	7.9	14.8	43.5	3750*	125	150	150	150
MAX14930D	0.8	2.5	4.4	13.7	3750*	125	150	150	150
MAX14930E	1.1	3.6	6.0	19.8	3750*	125	150	150	150
MAX14930F	2.7	7.9	14.8	43.5	3750*	125	150	150	150
MAX14931A	2.2	2.1	12.1	11.5	3750*	125	150	150	150
MAX14931B	2.7	2.9	14.8	15.9	3750*	125	150	150	150
MAX14931C	6.5	6.5	35.7	35.7	3750*	125	150	150	150
MAX14931D	2.2	2.1	12.1	11.5	3750*	125	150	150	150
MAX14931E	2.7	2.9	14.8	15.9	3750*	125	150	150	150
MAX14931F	6.5	6.5	35.7	35.7	3750*	125	150	150	150
MAX14932A	2.9	1.6	15.9	8.8	3750*	125	150	150	150
MAX14932B	4.0	2.2	22.0	12.1	3750*	125	150	150	150
MAX14932C	9.4	5.2	51.7	28.6	3750*	125	150	150	150
MAX14932D	2.9	1.6	15.9	8.8	3750*	125	150	150	150
MAX14932E	4.0	2.2	22.0	12.1	3750*	125	150	150	150
MAX14932F	9.4	5.2	51.7	28.6	3750*	125	150	150	150
MAX14933	3.2	1.5	17.6	8.2	3750*	125	150	150	150
MAX14934A	0.8	2.5	4.4	13.7	5000	125	150	150	150
MAX14934B	1.1	3.6	6.0	19.8	5000	125	150	150	150
MAX14934C	2.7	7.9	14.8	43.5	5000	125	150	150	150
MAX14934D	0.8	2.5	4.4	13.7	5000	125	150	150	150
MAX14934E	1.1	3.6	6.0	19.8	5000	125	150	150	150
MAX14934F	2.7	7.9	14.8	43.5	5000	125	150	150	150
MAX14935A	2.2	2.1	12.1	11.5	5000	125	150	150	150
MAX14935B	2.7	2.9	14.8	15.9	5000	125	150	150	150
MAX14935C	6.5	6.5	35.7	35.7	5000	125	150	150	150
MAX14935D	2.2	2.1	12.1	11.5	5000	125	150	150	150
MAX14935E	2.7	2.9	14.8	15.9	5000	125	150	150	150
MAX14935F	6.5	6.5	35.7	35.7	5000	125	150	150	150
MAX14936A	2.9	1.6	15.9	8.8	5000	125	150	150	150
MAX14936B	4.0	2.2	22.0	12.1	5000	125	150	150	150
MAX14936C	9.4	5.2	51.7	28.6	5000	125	150	150	150
MAX14936D	2.9	1.6	15.9	8.8	5000	125	150	150	150
MAX14936E	4.0	2.2	22.0	12.1	5000	125	150	150	150
MAX14936F	9.4	5.2	51.7	28.6	5000	125	150	150	150
MAX14937	3.2	1.5	17.6	8.2	5000	125	150	150	150
MAX22163BAEE+, MAX22163BAEE/V+	1.00	1.00	5.49	5.49	3000	125	150	150	25
MAX22163CAEE+, MAX22163CAEE/V+	6.58	6.58	36.18	36.18	3000	125	150	150	200
MAX22163EAE+, MAX22163EAE/V+	1.00	1.00	5.49	5.49	3000	125	150	150	25
MAX22163FAEE+, MAX22163FAEE/V+	6.58	6.58	36.18	36.18	3000	125	150	150	200
MAX22164BAEE+, MAX22164BAEE/V+	0.81	1.19	4.45	6.53	3000	125	150	150	25
MAX22164CAEE+, MAX22164CAEE/V+	5.20	7.96	28.60	43.77	3000	125	150	150	200
MAX22164EAE+, MAX22164EAE/V+	0.81	1.19	4.45	6.53	3000	125	150	150	25

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT.):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Encoder (Side 1)	Decoder (Side 2)	Encoder (Side 1)	Decoder (Side 2)					
MAX22164FAEE+, MAX22164FAEE/V+	5.20	7.96	28.60	43.77	3000	125	150	150	200
MAX22165BAEE+, MAX22165BAEE/V+	0.62	1.38	3.40	7.57	3000	125	150	150	25
MAX22165CAEE+, MAX22165CAEE/V+	3.82	9.34	21.01	51.36	3000	125	150	150	200
MAX22165EAE+, MAX22165EAE/V+	0.62	1.38	3.40	7.57	3000	125	150	150	25
MAX22165FAEE+, MAX22165FAEE/V+	3.82	9.34	21.01	51.36	3000	125	150	150	200
MAX22166BAEE+, MAX22166BAEE/V+	0.43	1.57	2.36	8.62	3000	125	150	150	25
MAX22166CAEE+, MAX22166CAEE/V+	2.44	10.72	13.42	58.95	3000	125	150	150	200
MAX22166EAE+, MAX22166EAE/V+	0.43	1.57	2.36	8.62	3000	125	150	150	25
MAX22166FAEE+, MAX22166FAEE/V+	2.44	10.72	13.42	58.95	3000	125	150	150	200
MAX22245BAWA+, MAX22245BAWA/V+	0.42	1.59	2.33	8.74	5000	125	150	150	25
MAX22245CAWA+, MAX22245CAWA/V+	2.31	10.89	12.69	59.87	5000	125	150	150	200
MAX22245EAWA+, MAX22245EAWA/V+	0.42	1.59	2.33	8.74	5000	125	150	150	25
MAX22245FAWA+, MAX22245FAWA/V+	2.31	10.89	12.69	59.87	5000	125	150	150	200
MAX22246BAWA+, MAX22246BAWA/V+	2.01	2.01	11.07	11.07	5000	125	150	150	25
MAX22246CAWA+, MAX22246CAWA/V+	13.19	13.19	72.57	72.57	5000	125	150	150	200
MAX22246EAWA+, MAX22246EAWA/V+	2.01	2.01	11.07	11.07	5000	125	150	150	25
MAX22246FAWA+, MAX22246FAWA/V+	13.19	13.19	72.57	72.57	5000	125	150	150	200
MAX22290BASA+, MAX22290BASA/V+	0.42	1.59	2.33	8.74	3000	125	150	150	25
MAX22290CASA+, MAX22290CASA/V+	2.31	10.89	12.69	59.87	3000	125	150	150	200
MAX22290EASA+, MAX22290EASA/V+	0.42	1.59	2.33	8.74	3000	125	150	150	25
MAX22290FASA+, MAX22290FASA/V+	2.31	10.89	12.69	59.87	3000	125	150	150	200
MAX22291BASA+, MAX22291BASA/V+	2.01	2.01	11.07	11.07	3000	125	150	150	25
MAX22291CASA+, MAX22291CASA/V+	13.19	13.19	72.57	72.57	3000	125	150	150	200
MAX22291EASA+, MAX22291EASA/V+	2.01	2.01	11.07	11.07	3000	125	150	150	25
MAX22291FASA+, MAX22291FASA/V+	13.19	13.19	72.57	72.57	3000	125	150	150	200
MAX22344BAAP+	0.9	2.2	4.95	12.1	3750	125	+150	150	25
MAX22344CAAP+	2.4	9.6	13.2	52.8	3750	125	+150	150	200
MAX22345BAAP+	0.95	2.0	5.22	11	3750	125	+150	150	25
MAX22345CAAP+	2.7	9.5	14.85	52.25	3750	125	+150	150	200

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT.):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Encoder (Side 1)	Decoder (Side 2)	Encoder (Side 1)	Decoder (Side 2)					
MAX22345RAAP+	0.95	2.0	5.22	11	3750	125	+150	150	25
MAX22345SAAP+	2.7	9.5	14.85	52.25	3750	125	+150	150	200
MAX22346BAAP+	1.1	1.9	6.05	10.45	3750	125	+150	150	25
MAX22346CAAP+	2.8	9.0	15.4	49.5	3750	125	+150	150	200
MAX22420BASA	0.32	0.57	1.76	3.135	3000	125	150	150	10
MAX22420CASA	0.32	0.57	1.76	3.135	3000	125	150	150	10
MAX22420EASA	0.32	0.57	1.76	3.135	3000	125	150	150	10
MAX22420FASA	0.32	0.57	1.76	3.135	3000	125	150	150	10
MAX22421BASA	0.45	0.45	2.475	2.475	3000	125	150	150	10
MAX22421CASA	0.45	0.45	2.475	2.475	3000	125	150	150	10
MAX22421EASA	0.45	0.45	2.475	2.475	3000	125	150	150	10
MAX22421FASA	0.45	0.45	2.475	2.475	3000	125	150	150	10
MAX22440CAEE+, MAX22440FAEE+	1.06	2.45	5.8	13.5	3000	125	150	150	10
MAX22441CAEE+, MAX22441FAEE+	1.40	2.10	7.7	11.5	3000	125	150	150	10
MAX22442CAEE+, MAX22442FAEE+	1.73	1.73	9.5	9.5	3000	125	150	150	10
MAX22444BAWE+	0.9	2.2	4.95	12.1	5000	125	150	150	25
MAX22444CAWE+	2.4	9.6	13.2	52.8	5000	125	150	150	200
MAX22444EAW+	0.9	2.2	4.95	12.1	5000	125	150	150	25
MAX22444FAWE+	2.4	9.6	13.2	52.8	5000	125	150	150	200
MAX22444MAWE+	0.9	2.2	4.95	12.1	5000	125	150	150	25
MAX22444NAWE+	2.4	9.6	13.2	52.8	5000	125	150	150	200
MAX22445BAWE+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445CAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22445EAW+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445FAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22445MAWE+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445NAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22445RAWE+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445SAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22445UAW+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445VAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22446BAWE+	1.1	1.9	6.05	10.45	5000	125	150	150	25
MAX22446CAWE+	2.8	9.0	15.4	49.5	5000	125	150	150	200
MAX22446EAW+	1.1	1.9	6.05	10.45	5000	125	150	150	25
MAX22446FAWE+	2.8	9.0	15.4	49.5	5000	125	150	150	200
MAX22446MAWE+	1.1	1.9	6.05	10.45	5000	125	150	150	25
MAX22446NAWE+	2.8	9.0	15.4	49.5	5000	125	150	150	200
MAX22700DASA+	6.5	10	36	360	3000	125	150	150	2
MAX22700DAWA+	6.5	10	36	360	5000	125	150	150	2
MAX22700EASA+	6.5	10	36	360	3000	125	150	150	2
MAX22700EAW+	6.5	10	36	360	5000	125	150	150	2
MAX22701DASA+	6.5	10	36	360	3000	125	150	150	2
MAX22701DAWA+	6.5	10	36	360	5000	125	150	150	2
MAX22701EASA+	6.5	10	36	360	3000	125	150	150	2
MAX22701EAW+	6.5	10	36	360	5000	125	150	150	2
MAX22702DASA+	6.5	10	36	360	3000	125	150	150	2
MAX22702DAWA+	6.5	10	36	360	5000	125	150	150	2
MAX22702EASA+	6.5	10	36	360	3000	125	150	150	2
MAX22702EAW+	6.5	10	36	360	5000	125	150	150	2
MAX22563BAAP+, MAX22563BAAP/V+	1.00	1.00	5.49	5.49	3750	125	150	150	25
MAX22563CAAP+, MAX22563CAAP/V+	6.58	6.58	36.18	36.18	3750	125	150	150	200
MAX22564BAAP+, MAX22564BAAP/V+	0.81	1.19	4.45	6.53	3750	125	150	150	25
MAX22564CAAP+, MAX22564CAAP/V+	5.20	7.96	28.60	43.77	3750	125	150	150	200

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT.):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Encoder (Side 1)	Decoder (Side 2)	Encoder (Side 1)	Decoder (Side 2)					
MAX22565BAAP+, MAX22565BAAP/V+	0.62	1.38	3.40	7.57	3750	125	150	150	25
MAX22565CAAP+, MAX22565CAAP/V+	3.82	9.34	21.01	51.36	3750	125	150	150	200
MAX22566BAAP+, MAX22566BAAP/V+	0.43	1.57	2.36	8.62	3750	125	150	150	25
MAX22566CAAP+, MAX22566CAAP/V+	2.44	10.72	13.42	58.95	3750	125	150	150	200
MAX22663BAWE+, MAX22663BAWE/V+	1.00	1.00	5.49	5.49	5000	125	150	150	25
MAX22663CAWE+, MAX22663CAWE/V+	6.58	6.58	36.18	36.18	5000	125	150	150	200
MAX22663EAW+, MAX22663EAW/V+	1.00	1.00	5.49	5.49	5000	125	150	150	25
MAX22663FAWE+, MAX22663FAWE/V+	6.58	6.58	36.18	36.18	5000	125	150	150	200
MAX22664BAWE+, MAX22664BAWE/V+	0.81	1.19	4.45	6.53	5000	125	150	150	25
MAX22664CAWE+, MAX22664CAWE/V+	5.20	7.96	28.60	43.77	5000	125	150	150	200
MAX22664EAW+, MAX22664EAW/V+	0.81	1.19	4.45	6.53	5000	125	150	150	25
MAX22664FAWE+, MAX22664FAWE/V+	5.20	7.96	28.60	43.77	5000	125	150	150	200
MAX22665BAWE+, MAX22665BAWE/V+	0.62	1.38	3.40	7.57	5000	125	150	150	25
MAX22665CAWE+, MAX22665CAWE/V+	3.82	9.34	21.01	51.36	5000	125	150	150	200
MAX22665EAW+, MAX22665EAW/V+	0.62	1.38	3.40	7.57	5000	125	150	150	25
MAX22665FAWE+, MAX22665FAWE/V+	3.82	9.34	21.01	51.36	5000	125	150	150	200
MAX22666BAWE+, MAX22666BAWE/V+	0.43	1.57	2.36	8.62	5000	125	150	150	25
MAX22666CAWE+, MAX22666CAWE/V+	2.44	10.72	13.42	58.95	5000	125	150	150	200
MAX22666EAW+, MAX22666EAW/V+	0.43	1.57	2.36	8.62	5000	125	150	150	25
MAX22666FAWE+, MAX22666FAWE/V+	2.44	10.72	13.42	58.95	5000	125	150	150	200
*MAX22820BAWA	0.32	0.57	1.76	3.135	5000	125	150	150	10
*MAX22820CAWA	0.32	0.57	1.76	3.135	5000	125	150	150	10
*MAX22820EAWA	0.32	0.57	1.76	3.135	5000	125	150	150	10
*MAX22820FAWA	0.32	0.57	1.76	3.135	5000	125	150	150	10
*MAX22821BAWA	0.45	0.45	2.475	2.475	5000	125	150	150	10
*MAX22821CAWA	0.45	0.45	2.475	2.475	5000	125	150	150	10
*MAX22821EAWA	0.45	0.45	2.475	2.475	5000	125	150	150	10
*MAX22821FAWA	0.45	0.45	2.475	2.475	5000	125	150	150	10

(\$) - For ambient temperatures higher than 25°C and up to T_{moa}, refer to manufacturer's specifications and/or thermal derating curve data for complete electrical ratings.

- The manufacturer's datasheet may specify the isolation voltage for these models as 3750 Vac or 2750 Vac, for marketing purposes only.

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RESERVED FOR FUTURE USE

GENERAL:

These non-optical isolator devices consist of a transmitter coupled to a receiver. The transmitter and receiver are separated by an insulating barrier. Internal chips are connected to lead frames that are molded into the enclosure.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in products where the acceptability of the combination is determined by UL LLC.

*USR indicates this product was investigated under the UL Standard for Safety for Optical Isolators, UL 1577, Fifth Edition, revised **July 6, 2023**.

CNR indicates this product was investigated under the Canadian Certification Notice, CSA Component Acceptance Service No. 5A, dated January 23, 1998.

Conditions of Acceptability - Each device shall be reviewed with respect to the following conditions of acceptability:

1. The capability of the device to control a load has not been investigated.
2. These devices should be installed in a suitable end product enclosure.
3. The maximum junction temperature shall not be exceeded.
4. For single protection devices, the insulation to the case has not been evaluated. For double protection devices, the insulation to the case has been evaluated to the isolation voltage specified in the ratings table.
5. In addition to meeting single protection requirements, double protection optical isolators have also been investigated for use in up to 250 V, 50/60 Hz circuits in audio, video, and similar equipment in applications in which breakdown of the optical isolator may result in a risk of fire, electrical shock, or injury to persons.

CONSTRUCTION DETAILS:

General - The product shall be constructed in accordance with the following description. All dimensions are approximate, unless specified as "max" or "min".

Markings - As specified in the Section General.

Model Differences - All models have identical insulation systems. The only differences between models are the input and output configurations.