

# Certificate of Compliance

## Certificate Number:

UL-US-L351759-11-  
71806102-2

## Report Reference:

E214100-20160817

## Issue Date:

2025-12-03

Issued to:

**ANALOG DEVICES INC**  
**804 WOBURN ST WILMINGTON, MA 01887-3494**  
**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, 5th Ed, Issue Date: 2014-04-25, Revision Date: 2019-06-11**

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 that reads 'David Piecuch'.

David Piecuch  
UL Mark Certification Program Owner

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

# CERTIFICATE OF COMPLIANCE

**Certificate number** UL-US-L351759-11-71806102-2  
**Report reference** E214100-20160817  
**Date** 2025-12-03

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 Isolator

**Model(s):** MAXM22510GLH, MAXM22511GLH

### Single protection nonoptical isolators 3500 Vac isolation voltage

**Model(s):** MAX22025, MAX22025F, MAX22026, MAX22026F, MAX22027, MAX22027F, MAX22028, MAX22028F

### Single protection nonoptical isolators max. 2750 Vac isolation voltage

**Model(s):** MAX14852, MAX14853, MAX14854, MAX14855, MAX14879, MAX14938, MAX14939, MAX14940, MAX14945, MAX14946

### Single protection nonoptical isolators max. 3000 Vac isolation voltage

**Model(s):** MAX22290B, MAX22290C, MAX22290E, MAX22290F, MAX22291B, MAX22291C, MAX22291E, MAX22291F

### Single protection nonoptical isolators max. 4000 Vac isolation voltage

**Model(s):** MAX14878AWA

### Single protection nonoptical isolators max. 5000 Vac isolation voltage

**Model(s):** MAX14856, MAX14857, MAX14858, MAX14859, MAX14878, MAX14880, MAX14882, MAX14941, MAX14942, MAX14943, MAX14948, MAX14949, MAX22245B, MAX22245C, MAX22245E, MAX22245F, MAX22246B, MAX22246C, MAX22246E, MAX22246F



# Certificate of Compliance

**Certificate Number:**

UL-CA-L351759-21-  
71806102-2

**Report Reference:**

E214100-20160817

**Issue Date:**

2025-12-03

Issued to:

**ANALOG DEVICES INC**  
**804 WOBURN ST WILMINGTON, MA 01887-3494**  
**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.

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Look for the UL Recognized Component Mark on the product.



David Piecuch  
UL Mark Certification Program Owner



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# CERTIFICATE OF COMPLIANCE

**Certificate number** UL-CA-L351759-21-71806102-2  
**Report reference** E214100-20160817  
**Date** 2025-12-03

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## Single Protection, Non-Optical Isolator

**Model(s):** MAXM22510GLH, MAXM22511GLH

### Single protection nonoptical isolators 3500 Vac isolation voltage

**Model(s):** MAX22025, MAX22025F, MAX22026, MAX22026F, MAX22027, MAX22027F, MAX22028, MAX22028F

### Single protection nonoptical isolators max. 2750 Vac isolation voltage

**Model(s):** MAX14852, MAX14853, MAX14854, MAX14855, MAX14879, MAX14938, MAX14939, MAX14940, MAX14945

### Single protection nonoptical isolators max. 3000 Vac isolation voltage

**Model(s):** MAX22290B, MAX22290C, MAX22290E, MAX22290F, MAX22291B, MAX22291C, MAX22291E, MAX22291F

### Single protection nonoptical isolators max. 4000 Vac isolation voltage

**Model(s):** MAX14878AWA

### Single protection nonoptical isolators max. 5000 Vac isolation voltage

**Model(s):** MAX14856, MAX14857, MAX14858, MAX14859, MAX14878, MAX14880, MAX14882, MAX14941, MAX14942, MAX14943, MAX14948, MAX22245B, MAX22245C, MAX22245E, MAX22245F, MAX22246B, MAX22246C, MAX22246E, MAX22246F



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File E214100  
Project 02420644

August 17, 2016

REPORT

on

COMPONENT - Nonoptical Isolating Devices - Component

ANALOG DEVICES INC  
WILMINGTON MA 01887-3494 US

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## DESCRIPTION

## PRODUCT COVERED:

USR, CNR - Single Protection, Non-Optical Isolator, Models MAX14852, MAX14853, MAX14854, MAX14855, MAX14856, MAX14857, MAX14858, MAX14859, MAX14878, MAX14878AWA, MAX14879, MAX14880, MAX14882, MAX14938, MAX14939, MAX14940, MAX14941, MAX14942, MAX14943, MAX14945, MAX14948, MAX22025, MAX22025F, MAX22026, MAX22026F, MAX22027, MAX22027F, MAX22028, MAX22028F, MAXM22510GLH, and MAXM22511GLH. May be followed by additional alphanumeric characters.

USR - Single Protection, Non-Optical Isolator, Models MAX14946, MAX14949. May be followed by additional alphanumeric characters.

## 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 Transmission Rate (Mbps)
	Encoder (Side 1)	Decoder (Side 2)	Encoder (Side 1)	Decoder (Side 2)					
MAX14852	4	11	22	60	2750	105	150	150	0.5
MAX14853	41	11	226	60	2750	105	150	150	0.5
MAX14854	6	53	33	292	2750	105	150	150	25
MAX14855	142	53	781	292	2750	105	150	150	25
MAX14856	4	11	22	60	5000	105	150	150	0.5
MAX14857	41	11	226	60	5000	105	150	150	0.5
MAX14858	6	53	33	292	5000	105	150	150	25
MAX14859	142	53	781	292	5000	105	150	150	25
MAX14878	0.35	25	1.92	137	5000	125	150	150	1
MAX14878AWA	0.35	25	1.92	137	4000	125	150	150	1
MAX14879	0.35	25	1.92	137	2750	125	150	150	1
MAX14880	0.35	25	1.92	137	5000	125	150	150	1
MAX14882	4.68	29.38	25.74	161.59	5000	125	150	150	1
MAX14938	6	145	33	798	2750	105	150	150	20
MAX14939	6	145	33	798	2750	105	150	150	20
MAX14940	242	145	1331	798	2750	105	150	150	20
MAX14941	6	145	33	798	5000	105	150	150	20
MAX14942	6	145	33	798	5000	105	150	150	20
MAX14943	242	145	1331	798	5000	105	150	150	20
MAX14945	114	174	627	957	2750	85	150	150	0.5
MAX14946	272	174	1496	957	2750	85	150	150	0.5
MAX14948	114	174	627	957	5000	85	150	150	0.5
MAX14949	272	174	1496	957	5000	85	150	150	0.5
MAX22025	0.37	31	5.87	162.75	3500	85	150	150	0.5
MAX22025F	0.37	31	5.87	162.75	3500	85	150	150	0.5
MAX22026	0.37	47	5.87	246.75	3500	85	150	150	16
MAX22026F	0.37	47	5.87	246.75	3500	85	150	150	16
MAX22027	0.37	32	5.87	162.75	3500	85	150	150	0.5
MAX22027F	0.37	32	5.87	162.75	3500	85	150	150	0.5
MAX22028	0.37	47	5.87	246.75	3500	85	150	150	16
MAX22028F	0.37	47	5.87	246.75	3500	85	150	150	16
MAXM22510GLH	103	N/A#	370.8	N/A#	2500	105	125	125	0.5
MAXM22511GLH	103	N/A#	370.8	N/A#	2500	105	125	125	25

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

(#) - The power VDDA is supplied to the Data side. Indicated power ratings are at VDDA = 3.6V. For Cable side an on-chip DC-DC and LDO provides power and a regulated output voltage VDDB=3.3V maximum, and as such there is no external voltage supply drawing current on VDDB.

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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 June 11, 2019.

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.