

Certificate of Compliance

Certificate Number:

UL-US-L351759-11-
12607102-2

Report Reference:

E214100-20170621

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, appearing to read '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-L351759-11-12607102-2
Report reference E214100-20170621
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): MAX22530, MAX22531

Single protection nonoptical isolators 600 Vac isolation voltage

Model(s): MAX22192ARC+

Single protection nonoptical isolators max. 3750 Vac isolation voltage

Model(s): MAX14001, MAX14002

Single protection nonoptical isolators max. 4000 Vac isolation voltage

Model(s): MAX22517, MAX22518, MAX22519



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Certificate of Compliance

Certificate Number:

UL-CA-L351759-21-
12607102-2

Report Reference:

E214100-20170621

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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Single Protection, Non-Optical Isolator

Model(s): MAX22530, MAX22531

Single protection nonoptical isolators max. 3750 Vac isolation voltage

Model(s): MAX14001, MAX14002

Single protection nonoptical isolators max. 4000 Vac isolation voltage

Model(s): MAX22517, MAX22518, MAX22519



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File E214100
Project 02420644

June 21, 2017

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 MAX14001, MAX14002, MAX22517, MAX22518, MAX22519, MAX22530, MAX22531. May be followed by additional letters and/or numbers.

USR - Single Protection Non-Optical Isolator, Model MAX22192 Series. May be followed by additional letters and/or numbers.

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 Trans-mission Rate (Mbps)
	Logic (Side 1)	Field (Side 2)	Logic (Side 1)	Field (Side 2)					
MAX14001	5.5	N/A	21.13	N/A	3750	125	150	150	10
MAX14002	5.5	N/A	21.13	N/A	3750	125	150	150	10
MAX22192ARC+	1.75	4.13	9.63	22.8	600V	125	150	150	10
MAX22517	7.8	n/a	42.9	n/a	4000	125	150	150	0.5
MAX22518	7.8	n/a	42.9	n/a	4000	125	150	150	0.5
MAX22519	7.8	n/a	42.9	n/a	4000	125	150	150	0.5
MAX22530	8	n/a	44	n/a	5000	125	150	150	20
MAX22531	8	n/a	44	n/a	3500	125	150	150	20

(\$) - 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.

Note - For Field side an on-chip DC-DC provides power and an unregulated output voltage VDDF=3.5V maximum, and as such there is no external voltage supply drawing current.

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.

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

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.