Certificate of Compliance

Certificate Number:

UL-US-L351759-11-70602102-1

Report Reference:

E214100-20120607

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.

Standard for Optical Isolators UL 1577

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.

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-L351759-11-70602102-1
Report reference	E214100-20120607
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 nonoptical isolators 600 Vac isolation voltage

Model(s): MAX14850, MAX14851

File E214100
Project 02420644

June 7, 2012

REPORT

on

COMPONENT - NONOPTICAL ISOLATING DEVICES

ANALOG DEVICES INC
WILMINGTON MA 01887-3494 US

DESCRIPTION

PRODUCT COVERED:

USR – Single Protection Non-Optical Isolator, Model MAX14850 and MAX14851, may be followed by additional letters and/or numbers.

MAXIMUM PER CHANNEL RATINGS (at room temperature):

Model	Current (mA)		Power (mW)		Isolation Voltage (Vac)	Max Operating (Ambient) Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate (Mbps)
	Side A (Encoder or Emitter)	Side B (Decoder or Sensor)	Side A (Encoder or Emitter)	Side B (Decoder or Sensor)					
MAX14850	24	24	132	132	600	125	150	150	50
MAX14851	4.0	6.4	22	35.2	600	125	150	150	50

GENERAL:

This digital isolator offers a low-power, low-cost, high electromagnetic interference (EMI) immunity, and stable temperature performance through proprietary process technology. The device uses a monolithic solution to isolate different ground domains and block high-voltage/high-current transients from sensitive or human interface circuitry. Four of the six channels are unidirectional, two in each direction. All four unidirectional channels support data rates of up to 50Mbps. The other two channels are bidirectional with data rates up to 2Mbps.

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.**

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.

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.