

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20130808-E214100  
**Report Reference** E214100-20010404  
**Issue Date** 2013-AUGUST-08

**Issued to:** ANALOG DEVICES INC  
804 WOBURN ST, WILMINGTON MA 01887

**This is to certify that  
representative samples of**

COMPONENT - NON-OPTICAL ISOLATING DEVICES


Single protection Non-Optical Isolators, Single Protection type, Model ADuM followed by 110, 122, 123, 124, 125, 130, 131, 140, 141, 151, 225, 231, 240, 241, 310, 322, 323, 330, 331, 340, 341, 344, 524, 3251E or 3252E. All models may be followed by additional letters and/or numbers.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 1577, Standard for Optical Isolators

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Recognized Component Mark should be considered as being covered by UL's Recognition and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.



William R. Carney, Director, North American Certification Programs

UL LLC

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 a local UL Customer Service Representative at [www.ul.com/contactus](http://www.ul.com/contactus)



File E214100  
Project 00ME17449

Issued: April 4, 2001  
Revised: January 13, 2003

REPORT

on

COMPONENT - NON-OPTICAL ISOLATORS

Analog Devices Inc  
Wilmington, MA

Copyright © 2001, 2003 Underwriters Laboratories Inc.

Underwriters Laboratories Inc. authorizes the above-named company to reproduce this Report provided it is reproduced in its entirety.

Underwriters Laboratories Inc. authorizes the above-named company to reproduce that portion of this Report consisting of this Cover Page through Page 2.

## DESCRIPTION

## PRODUCT COVERED:

USR Component - **Single protection** Non-Optical Isolators, Single Protection type, Model ADuM followed by 110, 122, 123, 124, 125, 130, 131, 140, 141, 151, 225, 231, 240, 241, 310, 322, 323, 330, 331, 340, 341, 344, 524, 3251E or 3252E. All models may be followed by additional letters and/or numbers.

## GENERAL CHARACTERISTIC AND USE (Not for UL Representative Use):

These magnetically coupled devices consist of multiple physically separated die in the same package. They are intended to provide electrical isolation between input and output terminals.

These devices have been investigated in accordance with Standard for Optical Isolators, UL 1577, **Fifth** Edition.

## ELECTRICAL RATINGS:

\*

Model	Current (mA)		Power (mW)		Isolation Voltage	Max Operating Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)
	Side 1	Side 2	Side 1	Side 2				
AduM 110, 310	0.8	0.06	77 @ 100 Mbps	15.4 @ 100 Mbps	2500	125	150	150
AduM 130, 140, 330, 340	0.53	0.53	344 @ 90 Mbps	344 @ 90 Mbps	2500	125	150	150
ADuM 122, ADuM 123, ADuM 124	2.0	0.6	26 @ 10 Mbps	506 @ 10 Mbps	2500	105	150	150
ADuM 125	8.5	62.5	19.2 @ 800 Kbps	37.8 @ 800 Kbps	2500	105	150	150
ADuM 131, 141	3.2	1.6	66 @ 10 Mbps	22 @ 10 Mbps	<b>3750</b>	105	150	150
AduM 151, 331, 341	3.2	1.6	66 @ 10 Mbps	22 @ 10 Mbps	<b>3750</b>	105	150	150
AduM 225	0.53	0.53	344 @ 90 Mbps	344 @ 90 Mbps	5000	125	150	150
AduM231	3.2	1.6	66 @ 10 Mbps	22 @ 10 Mbps	5000	105	150	150
ADuM 240	0.53	0.53	344 @ 90 Mbps	344 @ 90 Mbps	5000	125	150	150
ADuM241	3.2	1.6	66 @ 10 Mbps	22 @ 10 Mbps	5000	105	150	150
ADuM 322, 323	2.0	0.6	26 @ 10 Mbps	506 @ 10 Mbps	2500	105	150	150
ADuM 344	0.53	0.53	665 @ 150 Mbps	425 @ 150 Mbps	2500	125	150	150
ADuM 5240	140 @ 2 Mbps	2.6 @ 2 Mbps	688 @ 2 Mbps	14.3 @ 2 Mbps	2500	105	150	150
ADuM 5241	140 @ 2 Mbps	2.8 @ 2 Mbps	688 @ 2 Mbps	15.4 @ 2 Mbps	2500	105	150	150
ADuM 5242	140 @ 2 Mbps	3.0 @ 2 Mbps	688 @ 2 Mbps	16.5 @ 2 Mbps	2500	105	150	150
ADM3251E	145	12	797.5 @ 460 Kbps	66 @ 460 Kbps	2500	85	125	125
ADM3252E	100	34 @ 460k bps	330	112 @ 460k bps	3000	85	125	150

## ENGINEERING CONSIDERATIONS (Not for UL Representative Use:)

Use - For use only in products where the acceptability of the combination is determined by Underwriters Laboratories Inc.

## 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 temperature on the case should not exceed the maximum operating temperature rating specified in the ratings table.
- \*4. For single protection devices, the insulation to the case has not been evaluated. \*