

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20180118-E214100  
**Report Reference** E214100-20180118  
**Issue Date** 2018-JANUARY-18

**Issued to:** ANALOG DEVICES INC  
804 WOBURN ST  
WILMINGTON MA 01887-3494


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

COMPONENT - NONOPTICAL ISOLATING DEVICES  
Single Protection Non-Optical Isolator, Models ADuM7701,  
ADuM7702, ADuM7702E, ADuM7703, ADuM7704,  
ADuM7705, ADuM7706, ADuM7707, ADuM7708; may be  
followed by additional suffixes.

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

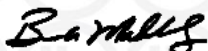
**Standard(s) for Safety:** UL 1577, Optical Isolators  
**Additional Information:** See the UL Online Certifications Directory at  
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Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
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Recognized components are incomplete in certain constructional features or restricted in performance  
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installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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File E214100  
Project 4788271090

January 18, 2018

REPORT

on

COMPONENT - Nonoptical Isolating Devices

ANALOG DEVICES INC  
WILMINGTON, MA

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## DESCRIPTION

## PRODUCT COVERED:

USR Single Protection Non-Optical Isolator, Models ADuM7701, ADuM7702, ADuM7702E, ADuM7703, ADuM7704, ADuM7705, ADuM7706, ADuM7707, ADuM7708; may be followed by additional suffixes.

## 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
	Side 1 Transmitter	Side 2 Receiver	Side 1 Transmitter	Side 2 Receiver					
ADuM7701	3	10	16.5	55	5700	125	150	150	42
ADuM7702	3	10	16.5	55	5700	125	150	150	42
ADuM7702E	3	10	16.5	55	5700	125	150	150	42
ADuM7703	3	10	16.5	55	5700	125	150	150	42
ADuM7704	3	10	16.5	55	5700	125	150	150	42
ADuM7705	9	10	49.5	55	5700	125	150	150	42
ADuM7706	9	10	49.5	55	5700	125	150	150	42
ADuM7707	9	10	49.5	200	5700	125	150	150	42
ADuM7708	9	10	49.5	200	5700	125	150	150	42

(\$) - 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.

## GENERAL:

These non-optical isolator devices consist of a transmitter coupled to a receiver. The transmitter and receiver are separated by an [insulating transformer and 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**.

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.