

# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-2020170-3  
**Report Reference** E214100-20210322  
**Date** 31-Jan-2023

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

**This is to certify 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(s) for Safety:** UL 1577, 5th Ed, Issue Date: 2014-04-25, Revision Date: 2019-06-11

**Additional Information:** See the UL Online Certifications Directory 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.

  
Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

<b>Model</b>	<b>Category Description</b>
ADM2461EBRWZ	Single Protection Non-Optical Isolator, rated 5700vac
ADM2463EBRWZ	Single Protection Non-Optical Isolator, rated 5700vac
ADM2561EBRNZ, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 3000vac
ADM2563EBRNZ, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 3000vac
ADM2565EBRNZ, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 3000vac
ADM2567EBRNZ, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 3000vac
ADM2761EBRWZ	Single Protection Non-Optical Isolator, rated 5700vac
ADM2763EBRWZ	Single Protection Non-Optical Isolator, rated 5700vac
ADM2861EBRNZ, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5700vac
ADM2863EBRNZ, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5700vac
ADM2865EBRNZ, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5700vac
ADM2867EBRNZ, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5700vac
ADuM4221, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5700vac
ADuM6420A	Single Protection Non-Optical Isolator, rated 5000vac
ADuM6420A*, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5000vac
ADuM6421A	Single Protection Non-Optical Isolator, rated 5000vac
ADuM6421A*, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5000vac
ADuM6422A	Single Protection Non-Optical Isolator, rated 5000vac
ADuM6422A*, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5000vac

*Deborah Jennings-Conner*  
Deborah Jennings-Conner, VP Regulatory Services



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ADuM6423A	Single Protection Non-Optical Isolator, rated 5000vac
ADuM6423A*, may be followed by additional suffixes.	Single Protection Non-Optical Isolator, rated 5000vac
ADuM6424A	Single Protection Non-Optical Isolator, rated 5000vac

*Deborah Jennings-Conner*

Deborah Jennings-Conner, VP Regulatory Services

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File E214100  
Project 4789739746

March 22, 2021

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 ADM2561EBRNZ, ADM2563EBRNZ, ADM2565EBRNZ, ADM2567EBRNZ, ADM2861EBRNZ, ADM2863EBRNZ, ADM2865EBRNZ, ADM2867EBRNZ, **ADuM4221**, ADuM6420A, ADuM6421A, ADuM6422A, ADuM6423A, ADM2461EBRWZ, ADM2463EBRWZ, ADM2761EBRWZ, ADM2763EBRWZ, 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					
ADM2561EBRNZ	330	NA*	1471	NA*	3000	105	150	150	0.5
ADM2563EBRNZ	330	NA*	1471	NA*	3000	105	150	150	0.5
ADM2565EBRNZ	296	NA*	1304	NA*	3000	105	150	150	25
ADM2567EBRNZ	296	NA*	1304	NA*	3000	105	150	150	25
ADM2861EBRNZ	330	NA*	1471	NA*	5700	105	150	150	0.5
ADM2863EBRNZ	330	NA*	1471	NA*	5700	105	150	150	0.5
ADM2865EBRNZ	296	NA*	1304	NA*	5700	105	150	150	25
ADM2867EBRNZ	296	NA*	1304	NA*	5700	105	150	150	25
<b>ADuM4221</b>	<b>18</b>	<b>35</b>	<b>90</b>	<b>525</b>	<b>5700</b>	<b>105</b>	<b>125</b>	<b>150</b>	<b>20</b>
ADuM6420A	375	125	1875	625	5000	125	150	150	100
ADuM6421A	375	125	1875	625	5000	125	150	150	100
ADuM6422A	375	125	1875	625	5000	125	150	150	100
ADuM6423A	375	125	1875	625	5000	125	150	150	100
ADuM6424A	375	125	1875	625	5000	125	150	150	100
ADM2461EBRWZ	4.12	108	20.6	361	5700	125	150	150	0.5
ADM2463EBRWZ	4.12	108	20.6	361	5700	125	150	150	0.5
ADM2761EBRWZ	4.12	108	20.6	361	5700	125	150	150	0.5
ADM2763EBRWZ	4.12	108	20.6	361	5700	125	150	150	0.5

Isolated DC-DC converter powers side 2, power for both sides is drawn from Side 1

(\$) - 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.