

# Certificate of Compliance

## Certificate Number:

UL-US-L181974-14-  
52408002-1

## Report Reference:

E181974-20080425

## Issue Date:

2024-01-29

Issued to:

**Texas Instruments Incorporated**  
**12500 T I BLVD DALLAS, TX 75243**  
**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, Edition 5, Issue Date 2014-04-25, Revision Date 2023-07-06**

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 Manager



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# CERTIFICATE OF COMPLIANCE

**Certificate number** UL-US-L181974-14-52408002-1  
**Report reference** E181974-20080425  
**Date** 2024-01-29

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

Model	Product Description
ISO1176, may be followed by any suffix except T.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO1176T, may be followed by any suffix.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO15, may be followed by any suffix except T.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO3080, may be followed by any suffix except T.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO3082, may be followed by any suffix except T.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO3086, may be followed by any suffix except T.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO3086T, may be followed by any suffix.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO3088, may be followed by any suffix except T.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO35, may be followed by any suffix except T.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO35T, may be followed by any suffix.	Single protection non-optical isolators at 2500 Vac isolation voltage



David Piecuch  
UL Mark Certification Program Manager

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# Certificate of Compliance

## Certificate Number:

UL-CA-L181974-24-  
52408002-1

## Report Reference:

E181974-20080425

## Issue Date:

2024-01-29

Issued to:

**Texas Instruments Incorporated  
12500 T I BLVD DALLAS, TX 75243  
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.

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.

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David Piecuch  
UL Mark Certification Program Manager



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# CERTIFICATE OF COMPLIANCE

**Certificate number** UL-CA-L181974-24-52408002-1  
**Report reference** E181974-20080425  
**Date** 2024-01-29

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

Model	Product Description
ISO1176T, may be followed by any suffix.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO3086T, may be followed by any suffix.	Single protection non-optical isolators at 2500 Vac isolation voltage
ISO35T, may be followed by any suffix.	Single protection non-optical isolators at 2500 Vac isolation voltage



David Piecuch  
UL Mark Certification Program Manager

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File E181974  
Project 08SC02111

April 25, 2008

REPORT

on

COMPONENT - NON-OPTICAL ISOLATING DEVICES

Texas Instruments, Tucson Corp.  
Tucson, Arizona 85706

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## DESCRIPTION

## PRODUCT COVERED:

USR - Single Protection Non-Optical Isolators, Models ISO15, ISO35, ISO1176, ISO3080, ISO3082, ISO3086, ISO3088, may be followed by any suffix except T.

USR, CNR - Single Protection Non-Optical Isolators, Models ISO35T, ISO1176T, ISO3086T, may be followed by any suffix.

## ELECTRICAL RATINGS (at nominal operating temperature):

*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)
	Encoder (Emitter)	Decoder (Sensor)	Encoder (Emitter)	Decoder (Sensor)					
*ISO15	10 / 1	11	55	40	2500	125	150	150	1
*ISO35	10 / 1	11	55	40	2500	125	150	150	1
*ISO35T	8.5	95	30.6	342	2500	85	150	150	1
*ISO1176	10 / 40	17	55	94	2500	125	150	150	40
*ISO1176T	20	116	110	609	2500	85	150	150	40
*ISO3080	10 / 0.2	17	55	94	2500	125	150	150	20
*ISO3082	10 / 0.2	17	55	94	2500	125	150	150	20
*ISO3086	10 / 20	17	55	94	2500	125	150	150	20
*ISO3086T	14	75	77	413	2500	85	150	150	20
*ISO3088	10 / 20	17	55	94	2500	125	150	150	20

**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 Underwriters Laboratories Inc.

\*USR - Indicates this product was investigated under the UL Standard for Safety for Optical Isolators, UL 1577, **Fifth Edition, revised July 6, 2023.**

CNR indicates this product was investigated under the Canadian Certification Notice, CSA Component Acceptance Service No. **5A, dated January 23, 1998.**

**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.

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