

CERTIFICATE OF COMPLIANCE

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Issued to: TEXAS INSTRUMENTS TUCSON CORP
5411 E WILLIAMS BLVD
TUCSON AZ 85711

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

COMPONENT - NONOPTICAL ISOLATING DEVICES
Single Protection Non-Optical Isolator, Models ISO7131,
ISO7140, ISO7141, ISO7142. May be followed by any
suffix.

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

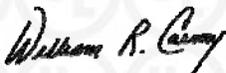
Standard(s) for Safety: UL 1577-Optical Isolators
Additional Information: See the UL Online Certifications Directory at
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William R. Carney, Director, North American Certification Programs

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File E181974
Project 13CA26290

August 30, 2013

REPORT

on

COMPONENT - Non-Optical Isolating Devices - Component

Texas Instruments Tucson Corp
Tucson, Arizona

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DESCRIPTION

PRODUCT COVERED:

USR - Single Protection Non-Optical Isolator, Models ISO7131, ISO7140, ISO7141, ISO7142. May be followed by any suffix.

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
	Transmitter	Receiver	Transmitter	Receiver					
ISO7131	0.00010	13	0.055	71.5	2500	125	150	150	50
ISO7140	0.00010	18	0.055	99	2500	125	150	150	50
ISO7141	0.00010	16	0.055	88	2500	125	150	150	50
ISO7142	0.00010	14	0.055	77	2500	125	150	150	50

(\$) - 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 barrier between capacitor plates. 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, Fourth Edition.

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.

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