

CERTIFICATE OF COMPLIANCE

Certificate Number 20190718-E181974
Report Reference E181974-20150223
Issue Date 2019-JULY-18

Issued to: Texas Instruments Incorporated
12500 TI BLVD
DALLAS TX 75243

This certificate confirms that representative samples of COMPONENT - NONOPTICAL ISOLATING DEVICES
SEE ADDENDUM PAGE

Have been investigated 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.

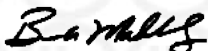
Standard(s) for Safety: UL 1577 Standard for Optical Isolators
CAN/CSA No. 5A Component Acceptance Service Notice

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure 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.



Bruce Mahrenholz, Director North American Certification Program

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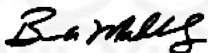
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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Single Protection, Non-Optical Isolator, Models ISO1211, ISO1211S, ISO1212, ISO1212S, ISO5451, ISO5452, ISO5851, ISO5852S, ISO7310, ISO7320, ISO7321, ISO7330, ISO7331, ISO7340, ISO7341, ISO7342, ISO7710, ISO7720, ISO7721, ISO7721FS, ISO7730, ISO7731, ISO7740, ISO7741, ISO7741E-Q1, ISO7741FS, ISO7742, ISO7742FS, ISO7760, ISO7761, ISO7762, ISO7763, ISO7810, ISO7820, ISO7820LL, ISO7821, ISO7821LL, ISO7821LLS, ISO7830, ISO7831, ISO7840, ISO7841, ISO7842, ISOW7820, ISOW7821, ISOW7822, ISOW7840, ISOW7841, ISOW7842, ISOW7843, ISOW7844, SN003021, SN005721, SN1506011. May be followed by any suffix.

Single Protection, Non-Optical Isolator, Models ISO1042, ISO1410, ISO1412, ISO1430, ISO1432, ISO1450, ISO1452, ISO1500, ISO7041. May be followed by any suffix.



Bruce Mahrenholz, Director North American Certification Program

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File E181974
Project 4786649330

Issued: February 23, 2015
Revised: June 20, 2019

REPORT

On

COMPONENT - Nonoptical Isolating Devices

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Texas Instruments **Incorporated**
Dallas, TX

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DESCRIPTION

PRODUCTS COVERED:

USR - Single Protection, Non-Optical Isolator, Models IS01211, IS01211S, IS01212, IS01212S, IS05451, IS05452, IS05851, IS05852S, IS07310, IS07320, IS07321, IS07330, IS07331, IS07340, IS07341, IS07342, IS07710, IS07720, IS07721, IS07721FS, IS07730, IS07731, IS07740, IS07741, IS07741E-Q1, IS07741FS, IS07742, IS07742FS, IS07760, IS07761, IS07762, IS07763, IS07810, IS07820, IS07820LL, IS07821, IS07821LL, IS07821LLS, IS07830, IS07831, IS07840, IS07841, IS07842, ISOW7820, ISOW7821, ISOW7822, ISOW7840, ISOW7841, ISOW7842, ISOW7843, ISOW7844, SN003021, SN005721, SN1506011. May be followed by any suffix.

USR/CNR - Single Protection, Non-Optical Isolator, Models IS01042, IS01410, IS01412, **IS01430**, **IS01432**, **IS01450**, **IS01452**, IS01500, IS07041. 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					
IS01042 (8DW & 16DW pkgs)	3.5	73.4	25	360	5000	125	150	150	5
IS01211	2	7	20	430	3000	125	150	150	4
IS01211S (8D pkg)	2	7	20	430	3000	125	150	150	4
IS01212	2	7	20	430	3000	125	150	150	4
IS01212S (16DBQ pkg)	2	7	20	430	3000	125	150	150	4
IS01410 (16DW pkg)	5.1	160	28	528	5000	125	150	150	0.5
IS01412 (16DW pkg)	5.1	160	28	528	5000	125	150	150	0.5
IS01430 (16DW pkg)	6	122	33	319	5000	125	150	150	12
IS01432 (16DW pkg)	6	122	33	319	5000	125	150	150	12
IS01450 (16DW pkg)	8.9	162	49	539	5000	125	150	150	50
IS01452 (16DW pkg)	8.9	162	49	539	5000	125	150	150	50
IS01500 (16DBQ pkg)	5.2	80	28	200	3000	125	150	150	1
IS05451	32	36	175	1080	5700	125	150	150	2
IS05452	32	36	175	1080	5700	125	150	150	2
IS05851	32	36	175	1080	5700	125	150	150	2
IS05852S	32	36	175	1080	5700	125	150	150	2
IS07041 (16DBQ pkg)	0.4	0.2	2.7	1.8	3000	125	150	150	2
IS07310	1.3	4.2	7.2	23.1	3000	125	150	150	25
IS07320	3	8	16.5	44	3000	125	150	150	25
IS07321	6.5	6.5	35.8	35.8	3000	125	150	150	25
IS07330	4	10	22	55	3000	125	150	150	25

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*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					
IS07331	6.5	9	35.8	49.5	3000	125	150	150	25
IS07340	5	13	27.5	71.5	3000	125	150	150	25
IS07341	7	11	38.5	60.5	3000	125	150	150	25
IS07342	5.6	9	30.8	49.5	3000	125	150	150	25
IS07710 (8D pkg)	3	8	16.5	44	3000	125	150	150	100
IS07710 (8DW & 16DW pkgs)	3	8	16.5	44	5700	125	150	150	100
IS07720 (8D pkg)	1.6	7	10	40	3000	125	150	150	100
IS07720 (8DW & 16DW pkgs)	1.6	7	10	40	5700	125	150	150	100
IS07721 (8D pkg)	4.5	4.5	25	25	3000	125	150	150	100
IS07721 (8DW & 16DW pkgs)	4.5	4.5	25	25	5700	125	150	150	100
IS07721FS (8D pkg)	4.5	4.5	25	25	3000	125	150	150	100
IS07730 (16DBQ pkg)	6	23	33	126.5	3000	125	150	150	100
IS07730 (16DW pkg)	6	23	33	126.5	5700	125	150	150	100
IS07731 (16DBQ pkg)	12	17	66	93.5	3000	125	150	150	100
IS07731 (16DW pkg)	12	17	66	93.5	5700	125	150	150	100
IS07740 (16DBQ pkg)	7	31	38.5	170.5	3000	125	150	150	100
IS07740 (16DW pkg)	7	31	38.5	170.5	5700	125	150	150	100
IS07741 (16DBQ pkg)	13	25	71.5	137.5	3000	125	150	150	100
IS07741 (16DW pkg)	13	25	71.5	137.5	5700	125	150	150	100
IS07741 (16DWW pkg)	13	25	71.5	137.5	5700	125	150	150	100
IS07741E-Q1 (16DW pkg)	13	25	71.5	137.5	5700	150	175	150	100
IS07741FS (16DBQ pkg)	13	25	71.5	137.5	3000	125	150	150	100
IS07742 (16DBQ pkg)	18	18	99	99	3000	125	150	150	100
IS07742 (16DW pkg)	18	18	99	99	5700	125	150	150	100
IS07742FS (16DBQ pkg)	18	18	99	99	3000	125	150	150	100
IS07760 (16DBQ pkg)	1.5	7.4	8.4	40.4	3000	125	150	150	100
IS07760 (16DW pkg)	1.5	7.4	8.4	40.4	5700	125	150	150	100
IS07761 (16DBQ pkg)	2.5	6.4	13.9	34.9	3000	125	150	150	100
IS07762 (16DBQ pkg)	3.5	5.4	19.4	29.4	3000	125	150	150	100

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*Model	Current (mA)		Power (mW)		Isolati on Voltage at 60 sec Vrms	Max Operati ng Ambient Temp (°C)	Max Junct ion Temp (°C)	Max Stor age Temp (°C)	Max Data Rate (Mbps)
	Transmitter	Receiver	Transmitter	Receiver					
IS07763 (16DBQ pkg)	4.5	4.5	24.4	24.4	3000	125	150	150	100
IS07760 (16DW pkg)	1.5	7.4	8.4	40.4	5700	125	150	150	100
IS07761 (16DW pkg)	2.5	6.4	13.9	34.9	5700	125	150	150	100
IS07762 (16DW pkg)	3.5	5.4	19.4	29.4	5700	125	150	150	100
IS07763 (16DW pkg)	4.5	4.5	24.4	24.4	5700	125	150	150	100
IS07810	3	8	16.5	44	5700	125	150	150	100
IS07820	4	16	22	88	5700	125	150	150	100
IS07820LL	8.2	21	45.1	115.5	5700	125	150	150	100
IS07821	11	11	60.5	60.5	5700	125	150	150	100
IS07821LL	14.1	14.1	77.6	77.6	5700	125	150	150	100
IS07821LLS	16.4	16.4	90.2	90.2	5700	125	150	150	150
IS07830	6	23	33	126.5	5700	125	150	150	100
IS07831	12	17	66	93.5	5700	125	150	150	100
IS07840	7	31	38.5	170.5	5700	125	150	150	100
IS07841	13	25	71.5	137.5	5700	125	150	150	100
IS07842	18	18	99	99	5700	125	150	150	100
ISOW7820	160	60	275	275	5000	125	150	150	100
ISOW7821	160	60	275	275	5000	125	150	150	100
ISOW7822	160	60	275	275	5000	125	150	150	100
ISOW7840	80	30	137.5	137.5	5000	125	150	150	100
ISOW7841	80	30	137.5	137.5	5000	125	150	150	100
ISOW7842	80	30	137.5	137.5	5000	125	150	150	100
ISOW7843	80	30	137.5	137.5	5000	125	150	150	100
ISOW7844	80	30	137.5	137.5	5000	125	150	150	100
SN003021 (8D pkg)	4.5	4.5	25	25	3000	125	150	150	100
SN005721	5.5	5.5	30.3	30.3	5700	125	150	150	100
SN1506011	12	17	66	93.5	5700	125	150	150	100

(\$) - For ambient temperatures higher than 25°C and up to T_{moa}, 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 of Silicone dioxide. 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.

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.