CERTIFICATE OF COMPLIANCE

Certificate Number	20160912-E351759
Report Reference	E351759-20120607
Issue Date	2016-SEPTEMBER-12
Issued to:	MAXIM INTEGRATED PRODUCTS 160 RIO ROBLES SAN JOSE CA 95134-1813
This is to certify that representative samples of	COMPONENT - NONOPTICAL ISOLATING DEVICES Single Protection Non-Optical Isolator, Model MAX14850 and MAX14851, may be followed by additional letters and/or numbers. 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 www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its 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

File E351759
Project 11CA62557

June 7, 2012

REPORT

on

COMPONENT - Nonoptical Isolating Devices

MAXIM INTEGRATED PRODUCTS
AUSTIN, TX

DESCRIPTION

PRODUCT COVERED:

USR – Single Protection Non-Optical Isolator, Model MAX14850 and MAX14851, may be followed by additional letters and/or numbers.

MAXIMUM PER CHANNEL RATINGS (at room temperature):

Model	Current (mA)		Power (mW)		Isolation Voltage (Vac)	Max Operating (Ambient) Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate (Mbps)
	Side A (Encoder or Emitter)	Side B (Decoder or Sensor)	Side A (Encoder or Emitter)	Side B (Decoder or Sensor)					
MAX14850	24	24	132	132	600	125	150	150	50
MAX14851	4.0	6.4	22	35.2	600	125	150	150	50

GENERAL:

This digital isolator offers a low-power, low-cost, high electromagnetic interference (EMI) immunity, and stable temperature performance through proprietary process technology. The device uses a monolithic solution to isolate different ground domains and block high-voltage/high-current transients from sensitive or human interface circuitry. Four of the six channels are unidirectional, two in each direction. All four unidirectional channels support data rates of up to 50Mbps. The other two channels are bidirectional with data rates up to 2Mbps.

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 July 6, 2023.**

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.

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.