

File E214100  
Project 4786546077

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REPORT

on

COMPONENT - Non-optical Isolating Devices - Component

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Wilmington, MA

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## DESCRIPTION

## PRODUCT COVERED:

USR - Single Protection Non-Optical Isolator, Model ADM3260. All models may have 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
	Encoder	Decoder	Encoder	Decoder					
ADM3260 (data)	65	11	51.5	32.9	2500	105	150	150	2
ADM3260 (power)	104	3.6	572	18	2500	105	150	150	n/a

(\$) - 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 devices are non-optical isolators consisting of an encoder and decoder. The encoder and decoder are separated by a transformer. 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.

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.

MODEL ADM3260

General

1. Encoder - FET input.
2. Decoder - FET output.
3. Lead Frame and Bond Wire - Metal employed for current carrying parts shall be of stainless steel, silver, gold, copper, nickel, aluminum, an alloy of the same, or an equivalent material.
4. Insulation Transformer Compound Coupling - Polyimide film by Asahi Kasei EMD as noted in the following table.

Location	Material Model	Through Insulation Thickness, mm
Power coils	BL-130B	0.017
Data coils	I-8124ER	0.017

5. Insulation Encapsulant - Epoxy Type **G600C** by Sumitomo.