



SIGNAL RELAYS



Active

PRODUCT DRAWING
English

3D PDF

TE CONNECTIVITY (TE)

IM42DGR=IM RELAY 100 MW 4.5 V

Axicom | IM

1-1462039-9

TE Internal Number: 1-1462039-9

Always EU RoHS/ELV Compliant

Contact Voltage Rating **250 VAC [220 VDC]**

Coil Power Rating (DC) (mW) **100**

Isolation (HF Parameter) **-37dB @ 100MHz, -18.8dB @ 900MHz**

Insertion Loss (HF Parameter) **-.33dB @ 900MHz, -.03dB @ 100MHz**

Insulation Initial Resistance (M Ω) **1000000**

Product Drawings

IM-Relay Marking

PDF
English

IM2-G-Relay

PDF
English

CAD Files

Customer View Model

2D_DXF.ZIP
English

3D PDF

PDF
3D

Customer View Model

3D_IGS.ZIP
English

Customer View Model

3D_STP.ZIP
English

Product Specifications

Product Specification

IM Relay Datasheet

PDF
English

Definitions Relays

PDF
English

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

	Relay Type	IM Relay
Electrical Characteristics	Contact Voltage Rating	250 VAC [220 VDC]
	Coil Power Rating (DC) (mW)	100
	Insulation Initial Resistance (M Ω)	1000000
	Coil Voltage Rating (VAC)	5
	Contact Switching Voltage (Max)	250 VAC [220 VDC]
	Coil Magnetic System	Bistable, 1 Coil
	Insulation Initial Dielectric Between Coil/Contact Class	1000 V – 1500 VA
	Insulation Initial Dielectric Between Adjacent Contacts (Vrms)	750
	Insulation Initial Dielectric Between Contacts and Coil (Vrms)	1500
	Contact Limiting Making Current (A)	5
	Insulation Initial Dielectric Between Open Contacts (Vrms)	750
	Actuating System	DC
	Contact Limiting Short-Time Current (A)	5
	Contact Limiting Continuous Current (A)	5
	Coil Resistance (Ω)	203
	Contact Switching Load (Min)	.1mA @ .0001V
	Contact Limiting Breaking Current (A)	5
	Coil Power Rating Class	50 – 300mW
	Coil Type	Bistable
	Voltage Standing Wave Ration (HF Parameter)	1.07 @ 100MHz, 1.45 @ 900MHz
Signal Characteristics	Isolation (HF Parameter)	-37dB @ 100MHz, -18.8dB @ 900MHz
	Insertion Loss (HF Parameter)	-.33dB @ 900MHz, -.03dB @ 100MHz
Body Features	Insulation Special Features	2000V Initial Surge Withstand Voltage Between Contacts & Coil
	Weight (oz)	.75
Contact Features	Terminal Type	PCB-SMT
	Contact Current Rating (A)	5
	Contact Arrangement	2 Form C (CO)
	Contact Material	AgNi
	Contact Number of Poles	2
	Contact Special Features	Bifurcated/Twin Contacts

Contact Current Class **2 – 5 A**

Contact Plating Material **Gold**

Mechanical Attachment

Mounting Type

Printed Circuit Board

Dimensions

Length Class (Mechanical)

0 – 10 mm

Width Class (Mechanical)

0 – 6 mm

Length (in)

10

Width

6 mm [.236 in]

Height Class (Mechanical)

0 – 6 mm

Dimensions (L x W x H) (Approximate)

10 x 6 x 5.65 mm [.393 x .236 x .222 in]

Height

5.6 mm [.221 in]

Usage Conditions

Environmental Category of Protection

RTV

Environmental Ambient Temperature (Max)

85 °C [85 °F]

Environmental Ambient Temperature Class

70 – 85°C

Operation/Application

Performance Type

High Current

Packaging Features

Packaging Method

Reel

Other

Additional Features

Gull Wing

Product Compliance

[Statement of Compliance](#)
PDF

[VIEW ALL PRODUCT COMPLIANCE](#)