Contact Voltage Rating: **220 VDC**

Signal Relay Coil Power Rating (DC): **50 mW**

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

Insertion Loss (HF Parameter): **-0.3 dB @ 100 MHz, -33 dB @ 900 MHz**

**All IM STANDARD (2 FORM C, 2CO CONTACTS) (73)**

### Features

#### Product Type Features

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#### Electrical Characteristics

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<tr>
<td>Insulation Initial Dielectric Between Contacts and Coil</td>
<td>1800 Vrms</td>
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<tr>
<td>Insulation Initial Dielectric Between Coil/Contact Class</td>
<td>1500 V – 2500 VA</td>
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<td>1.06 @ 100 MHz, 1.49 @ 900 MHz</td>
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<td>Insulation Initial Resistance</td>
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<td>180 Ω</td>
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<td>Coil Type</td>
<td>Monostable</td>
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<td>Contact Limiting Breaking Current</td>
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<td>220 VDC</td>
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<tr>
<td>Signal Relay Coil Magnetic System</td>
<td>Monostable, DC, Polarized</td>
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</table>

**Signal Characteristics**

- Isolation (HF Parameter): 
  -9.8dB @ 900MHz, -37dB @ 100MHz

- Insertion Loss (HF Parameter): 
  -0.03dB @ 100MHz, -0.33dB @ 900MHz

**Body Features**

- Insulation Special Features: 2500V Initial Surge Withstand Voltage between Contacts & Coil

- Weight: 0.75 g [0.026 oz]

**Contact Features**

- Contact Plating Material: Gold

- Contact Current Class: 0 – 2 A

- Contact Special Features: Bifurcated/Twin Contacts

- Signal Relay Terminal Type: PCB-THT

- Signal Relay Contact Current Rating: 2 A

- Signal Relay Contact Arrangement: 2 Form C (2 CO)

- Contact Material: PdRu+Au

- Contact Number of Poles: 2

**Termination Features**

- Termination Type: Through Hole

**Mechanical Attachment**

- Signal Relay Mounting Type: Printed Circuit Board

**Dimensions**

- Width Class (Mechanical): 0 – 6 mm
Width | 6 mm [.222 in]
---|---
Height | 5.65 mm [.221 in]
Length Class (Mechanical) | 0 – 10 mm
Length | 10 mm [.393 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]

Usage Conditions

Environmental Ambient Temperature (Max) | 85 °C [185 °F]
Environmental Ambient Temperature Class | 70 – 85°C
Environmental Category of Protection | RTV
Operating Temperature Range | -40 – 85 °C

Operation/Application

Performance Type | Standard

Packaging Features

Packaging Method | Tube

Product Compliance

For compliance documentation, visit the product page on TE.com>

| | 
---|---
EU RoHS Directive 2011/65/EU | Compliant
EU ELV Directive 2000/53/EC | Compliant
China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold
| Candidate List Declared Against: JUL 2019 (201)
| Does not contain REACH SVHC

| | 
---|---
Halogen Content | Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free
Solder Process Capability | Wave solder capable to 265°C

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part
numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

Compatible Parts

Also in the Series

Customers Also Bought

For support call +1 800 522 6752
Axicom IM, Signal Relays, 250VAC Contact Voltage Rating, 220VDC Contact Voltage Rating, 50mW Signal Relay Coil Power Rating (DC)

Documents

Product Drawings
IM21TS=IM RELAY 50 MW 3 V
English
IM21TS=IM RELAY 50 MW 3 V
English

CAD Files
Customer View Model
ENG_CVM_1462037-4_A7.3d_igs.zip
English
Customer View Model
ENG_CVM_1462037-4_A7.3d_stp.zip
English
Customer View Model
ENG_CVM_1462037-4_A7.2d_dxf.zip
English

3D PDF
English

Datasheets & Catalog Pages
Lighting Relays Guide
English
Transportation, Storage, Handling, Assembly and Testing of Axicom Through Hole Terminal (THT) Relays
English
IM_Datasheet PCN P.20-019002
English
Industrial Relays Quick Reference Guide
English
Industrial Relays Quick Reference Guide
Japanese
Industrial Relays Quick Reference Guide

Product Specifications
Definitions Relays
Axicom IM, Signal Relays, 250VAC Contact Voltage Rating, 220VDC Contact Voltage Rating, 50mW Signal Relay Coil Power Rating (DC)