Contact Voltage Rating: **220 VDC**

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

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

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

**All Standard Signal Relay 2 Form C,2 CO Cont (74)**

**Features**

**Product Type Features**

- **Relay Type**: IM Relay
- **Product Type**: Relay

**Electrical Characteristics**

- **Coil Power Rating Class**: 50 – 300 mW
- **Actuating System**: DC
- **Insulation Initial Dielectric Between Open Contacts**: 750 Vrms
- **Contact Limiting Short-Time Current**: 2 A
- **Insulation Initial Dielectric Between Contacts and Coil**: 1800 Vrms
- **Insulation Initial Dielectric Between Coil/Contact Class**: 1500 V – 2500 VA
- **Voltage Standing Wave Ratio (HF Parameter)**: 1.06 @ 100MHz, 1.49 @ 900MHz
- **Insulation Initial Dielectric Between Adjacent Contacts**: 1000 Vrms
- **Insulation Initial Resistance**: 1000 MΩ
- **Contact Limiting Making Current**: 2 A
- **Coil Resistance**: 180 Ω

For support call +1 800 522 6752
### Contact Limiting Continuous Current
2 A

### Coil Type
Monostable

### Contact Limiting Breaking Current
2 A

### Contact Switching Load (Min)
.1mA @ .0001V

### Coil Special Features
Ultra High Sensitive Version

### Contact Voltage Rating
220 VDC

### Signal Relay Coil Power Rating (DC)
50 mW

### Signal Relay Coil Voltage Rating
4.5 VDC

### Signal Relay Contact Voltage Rating
220 VDC

### Signal Relay Coil Magnetic System
Monostable, DC, Polarized

#### Signal Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation (HF Parameter)</td>
<td>-18.8dB @ 900MHz, -37dB @ 100MHz</td>
</tr>
<tr>
<td>Insertion Loss (HF Parameter)</td>
<td>-.03dB @ 100MHz, -.33dB @ 900MHz</td>
</tr>
</tbody>
</table>

#### Body Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation Special Features</td>
<td>2500V Initial Surge Withstand Voltage between Contacts &amp; Coil</td>
</tr>
<tr>
<td>Weight</td>
<td>.75 g [.026 oz]</td>
</tr>
</tbody>
</table>

#### Contact Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Plating Material</td>
<td>Gold</td>
</tr>
<tr>
<td>Contact Current Class</td>
<td>0 – 2 A</td>
</tr>
<tr>
<td>Contact Special Features</td>
<td>Bifurcated/Twin Contacts</td>
</tr>
<tr>
<td>Signal Relay Terminal Type</td>
<td>PCB-THT</td>
</tr>
<tr>
<td>Signal Relay Contact Current Rating</td>
<td>2 A</td>
</tr>
<tr>
<td>Signal Relay Contact Arrangement</td>
<td>2 Form C (2 CO)</td>
</tr>
<tr>
<td>Contact Material</td>
<td>PdRu+Au</td>
</tr>
<tr>
<td>Contact Number of Poles</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Termination Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Termination Type</td>
<td>Through Hole</td>
</tr>
</tbody>
</table>

#### Mechanical Attachment

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Relay Mounting Type</td>
<td>Printed Circuit Board</td>
</tr>
</tbody>
</table>

#### Dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width Class (Mechanical)</td>
<td>0 – 6 mm</td>
</tr>
</tbody>
</table>
Width | 6 mm [0.222 in]  
---|---  
Height | 5.65 mm [0.221 in]  
Length Class (Mechanical) | 0 – 10 mm  
Length | 10 mm [0.393 in]  
Height Class (Mechanical) | 0 – 6 mm  
Dimensions (L x W x H) (Approximate) | 10 x 6 x 5.65 mm [0.393 x 0.236 x 0.222 in]  

**Usage Conditions**  
- Environmental Ambient Temperature (Max) | 85 °C [185 °F]  
- Environmental Ambient Temperature Class | 70 – 85°C  
- 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  
  - Current ECHA Candidate List: JUNE 2022 (224)  
  - Candidate List Declared Against: JUNE 2022 (224)  
  - 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.
Signal Relays, 220 VDC Contact Voltage, 250 VAC Contact Voltage, 50 mW Coil
Power (DC), Printed Circuit Board, PCB-THT, Axicom IM

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

Compatible Parts

Also in the Series

Also in the Series

Axicom IM

Axicom IM

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

Language

Customer View Model

ENG_CVM_1462037-4_A7.2d_dxf.zip

English

3D PDF

English
Customer View Model
ENG_CVM_CVM_1-1462039-5_B4.3d.igs.zip
English

Customer View Model
ENG_CVM_CVM_1-1462039-5_B4.3d.stp.zip
English

Customer View Model
ENG_CVM_CVM_1-1462039-5_B4.2d.dxf.zip
English

3D PDF
3D

By downloading the CAD file I accept and agree to the Terms and Conditions.

Datasheets & Catalog Pages
Transportation, Storage, Handling, Assembly and Testing of Axicom Through Hole Terminal (THT) Relays
English

Lighting Relays Guide
English

IM_Datasheet
English

Product Specifications
Definitions, Handling, Processing, Testing and Use of Relays
English