Relays, Contactors & Switches > Relays > Signal Relays > IM STANDARD (2 FORM C, 2CO CONTACTS)

Contact Voltage Rating: **250 VAC**
Signal Relay Coil Power Rating (DC): **50 mW**
Isolation (HF Parameter): -.03dB @ 100MHz, -.33dB @ 900MHz
Insertion Loss (HF Parameter): -.03dB @ 100MHz, -.33dB @ 900MHz

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

**Features**

**Product Type Features**

<table>
<thead>
<tr>
<th>Relay Type</th>
<th>IM Relay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Type</td>
<td>Relay</td>
</tr>
</tbody>
</table>

**Electrical Characteristics**

<table>
<thead>
<tr>
<th>Coil Power Rating Class</th>
<th>50 – 300 mW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuating System</td>
<td>DC</td>
</tr>
<tr>
<td>Insulation Initial Dielectric Between Open Contacts</td>
<td>750 Vrms</td>
</tr>
<tr>
<td>Contact Limiting Short-Time Current</td>
<td>2 A</td>
</tr>
<tr>
<td>Insulation Initial Dielectric Between Contacts and Coil</td>
<td>1800 Vrms</td>
</tr>
<tr>
<td>Insulation Initial Dielectric Between Coil/Contact Class</td>
<td>1500 V – 2500 VA</td>
</tr>
<tr>
<td>Voltage Standing Wave Ratio (HF Parameter)</td>
<td>1.06 @ 100MHz, 1.49 @ 900Hz</td>
</tr>
<tr>
<td>Insulation Initial Dielectric Between Adjacent Contacts</td>
<td>1000 Vrms</td>
</tr>
<tr>
<td>Insulation Initial Resistance</td>
<td>1000000 MΩ</td>
</tr>
<tr>
<td>Contact Limiting Making Current</td>
<td>2 A</td>
</tr>
<tr>
<td>Coil Resistance</td>
<td>180 Ω</td>
</tr>
<tr>
<td>Specification</td>
<td>Value</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Contact Limiting Continuous Current (A)</td>
<td>2</td>
</tr>
<tr>
<td>Coil Type</td>
<td>Monostable</td>
</tr>
<tr>
<td>Contact Limiting Breaking Current (A)</td>
<td>2</td>
</tr>
<tr>
<td>Contact Switching Load (Min) (mA @ 0.0001V)</td>
<td>.1</td>
</tr>
<tr>
<td>Coil Special Features</td>
<td>Ultra High Sensitive Version</td>
</tr>
<tr>
<td>Contact Voltage Rating (VAC)</td>
<td>250</td>
</tr>
<tr>
<td>Signal Relay Coil Power Rating (DC) (mW)</td>
<td>50</td>
</tr>
<tr>
<td>Signal Relay Coil Voltage Rating (VDC)</td>
<td>4.5</td>
</tr>
<tr>
<td>Signal Relay Contact Switching Voltage (Max) (VAC)</td>
<td>250</td>
</tr>
<tr>
<td>Signal Relay Coil Magnetic System</td>
<td>Monostable, DC, Polarized</td>
</tr>
</tbody>
</table>

**Signal Characteristics**

- **Isolation (HF Parameter)**: -18.8dB @ 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 (A)**: 2
- **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 [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
Candidate List Declared Against: JAN 2021 (211)
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, PB, 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
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

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

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