



Relays & Contactors > Relays > Signal Relays



Contact Voltage Rating: **220 VDC**

Signal Relay Coil Power Rating (DC): **140 mW**

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

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

## 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	5 A
Insulation Initial Dielectric Between Contacts and Coil	1500 Vrms
Insulation Initial Dielectric Between Coil/Contact Class	1000 V – 1500 VA
Voltage Standing Wave Ration (HF Parameter)	1.06 @ 100MHz, 1.49 @ 900Mhz
Insulation Initial Dielectric Between Adjacent Contacts	750 Vrms
Insulation Initial Resistance	1000000 MΩ
Contact Limiting Making Current	5 A
Coil Resistance	145 Ω
Contact Limiting Continuous Current	5 A



Coil Type	Monostable
Contact Limiting Breaking Current	5 A
Contact Switching Load (Min)	.1mA @ .0001V
Contact Voltage Rating	220 VDC
Signal Relay Coil Power Rating (DC)	140 mW
Signal Relay Coil Voltage Rating	4.5 VDC
Signal Relay Contact Switching Voltage (Max)	220 VDC
Signal Relay Coil Magnetic System	Monostable, DC, Polarized

### Signal Characteristics

Isolation (HF Parameter)	-18.8dB @ 900MHz, -37dB @ 100MHz
Insertion Loss (HF Parameter)	-.03dB @ 100MHz, -.33dB @ 900MHz

### Body Features

Insulation Special Features	2000V Initial Surge Withstand Voltage Between Contacts & Coil
Weight	.75 g[.026 oz]

### Contact Features

Contact Plating Material	Gold
Contact Current Class	0 – 5 A
Contact Special Features	Single Contact
Signal Relay Terminal Type	PCB-SMT
Signal Relay Contact Current Rating	5 A
Signal Relay Contact Arrangement	2 Form C (2 CO)
Contact Material	AgNi+Au
Contact Number of Poles	2

### Termination Features

Termination Type	Surface Mount
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### Mechanical Attachment

Signal Relay Mounting Type	Printed Circuit Board
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### Dimensions

Width Class (Mechanical)	0 – 6 mm
Width	6 mm[.222 in]
Height	5.65 mm



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
Operating Temperature Range	-40 – 85 °C

### Operation/Application

Performance Type	High Current Single Contact
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### Packaging Features

Packaging Method	Reel
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### Other

Additional Features	J Leg
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## 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
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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	Reflow solder capable to 260°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

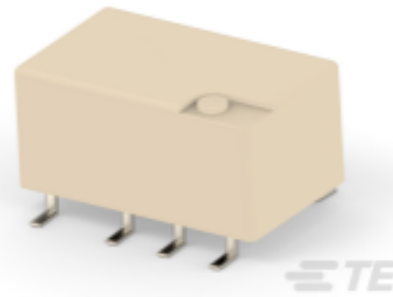


as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Compatible Parts




TE Part # 1-1462037-1  
IM02JR=IM RELAY 140mW 4.5V



TE Part # 1462047-9  
IM02IGR=IM RELAY 140mW 4.5V HCV

## Also in the Series | Axicom IM



RJ45 Connectors(2)



Signal Relays(154)

## Customers Also Bought



TE Part #2-5102321-1  
A/L UNIV HDR 10P VERT LG LAT B



TE Part #1-84533-0  
1.25MM FFC POST PLATED H 10P



TE Part #2-406549-2  
IMJ,1X1,PNL GRD,LED(G/-), SN



TE Part #5-2176347-1  
CRGCO 2010 150K 1%



TE Part #3-2319764-5  
E STACK PIANO 10P G LONG T&R PD ON



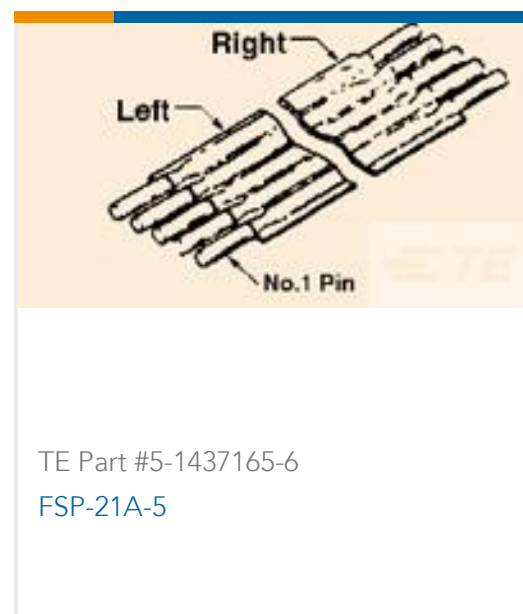
TE Part #2176371-8  
RQ 0603 5K49 0.1% 10PPM 5K RL



TE Part #1-2176379-2  
RQ 0805 140R 0.1% 10PPM 5K RL



TE Part #7-2176378-6  
RQ 0805 60R4 0.1% 10PPM 5K RL



## Documents

### Product Drawings

[IM02IJR=IM RELAY 140mW 4.5V HCV](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1462047-8\\_D1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1462047-8\\_D1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1462047-8\\_D1.2d\\_dxf.zip](#)

English

### 3D PDF

3D

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[Axicom Signal and High Frequency Relays \(RF Switches\) APPLICATION NOTE #2](#)

English

[IM\\_Datasheet](#)

English

### Agency Approvals

[VDE Certificate](#)

English