



Relays & Contactors > Electromechanical Relays



Relay & Contactor Type: **RF Relay**

Coil Magnetic System: **Monostable, Polarized**

Contact Arrangement: **2 Form C DPDT-CO**

Current Type: **DC**

Contact Current Rating: **5 A**

Features

Product Type Features

Relay & Contactor Type	RF Relay
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Configuration Features

Contact Special Features	J Leg, Single Contact
Relay Options	RF Rated
Contact Number of Poles	2
Contact Arrangement	2 Form C DPDT-CO

Electrical Characteristics

Insulation Initial Dielectric Between Open Contacts	750 Vrms
Contact Limiting Making Current	5 A
Contact Limiting Short-Time Current	5 A
Contact Limiting Continuous Current	5 A
Contact Switching Voltage (Max)	220 VDC
Contact Switching Load (Min)	.1mA @ .0001V
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 Breaking Current	5 A
Coil Resistance	145 Ω
Contact Current Rating	5 A
Coil Voltage Rating	4.5 VDC
Contact Voltage Rating	220 VDC
Coil Power Rating DC	.14 W
Insulation Initial Dielectric Between Contacts & Coil	1500 Vrms

Signal Characteristics

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

Body Features

Product Weight	.75 g[.026 oz]
Enclosure Type	Hermetically Sealed

Contact Features

Contact Material	AgNi+Au
Contact Plating Material	Gold

Termination Features

Main Termination & Connection Type	PCB SMT
Coil Termination & Connection Type	PCB SMT

Mechanical Attachment

Product Mount Type	Printed Circuit Board
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Dimensions

Product Width	6 mm[.236 in]
Product Length	10 mm[.393 in]
Product Height	5.65 mm[.222 in]

Usage Conditions

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

Operation/Application



Performance Type	High Current Single Contact
Solder Process	Reflow Solder
Coil Magnetic System	Monostable, Polarized
Current Type	DC

Packaging Features

Packaging Method	Reel
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Other

Environmental Ambient Temperature Class	70 – 85 °C
Coil Power Rating Class	.05 – .3 W
Contact Current Class	0 – 5 A
Height Class (Mechanical)	0 – 6 mm
Length Class (Mechanical)	0 – 10 mm
Width Class (Mechanical)	0 – 6 mm

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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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
IM02IJR=IM RELAY 140mW 4.5V

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

Also in the Series | Axicom IM

Electromechanical Relays(146)

RJ45 Connectors(2)

Customers Also Bought

TE Part #1-5745968-5
25 PLUG SP/FMS SCRLK

TE Part #5745967-2
25 RCPT SP/FMS STD

TE Part #6-2176070-0
3521 3K0 1% 2W

TE Part #650913-5
096 EURO TYPE C PIN BL ASSY

TE Part #5-103904-3
4 MTE HDR SRRA LATCH W/HLDWN

TE Part #1-1586039-6
16P VAL-U-LOK VRT HDR W/P V2

TE Part #9-1879336-2
CPF 0603 2K05 1% 50PPM 1K RL

TE Part #1-2176079-5
EP 3W 2K2 5%

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