

IM46GR

✓ ACTIVE

Axicom | Axicom IM

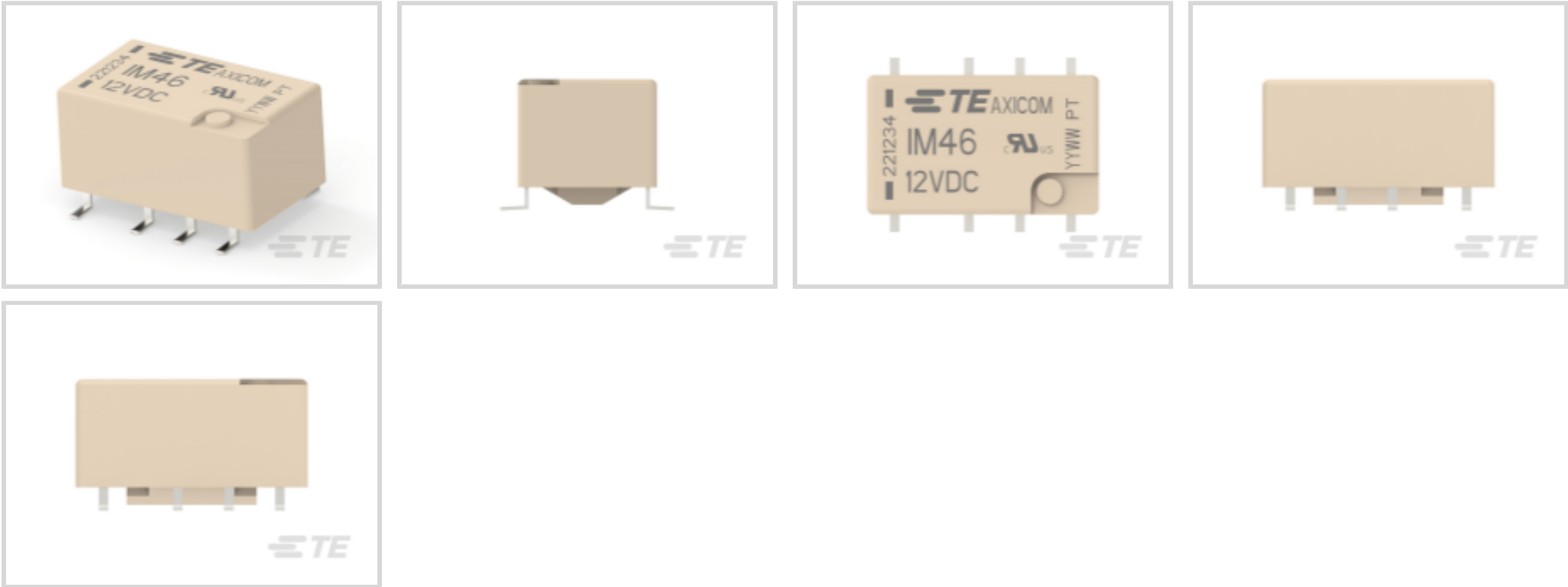
TE Internal #: 6-1462037-7

RF Relay, DC, Bistable, 1 Coil, 2 Form C DPDT-CO, 2 A Contact Rating, 12 VDC Coil Voltage, 250 VAC Contact Voltage, 220 VDC Contact Voltage, Axicom IM

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Relays & Contactors > Electromechanical Relays > Standard Signal Relay 2 Form C,2 CO Cont



Relay & Contactor Type: RF Relay

Current Type: DC

Coil Magnetic System: Bistable, 1 Coil

Contact Arrangement: 2 Form C DPDT-CO

Contact Current Rating: 2 A

[All Standard Signal Relay 2 Form C,2 CO Cont \(72\)](#)

Features

Product Type Features

Relay & Contactor Type	RF Relay
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Configuration Features

Contact Special Features	Bifurcated/Twin Contacts, Gull Wing
Relay Options	Power Switching, RF Rated
Contact Number of Poles	2
Contact Arrangement	2 Form C DPDT-CO

Electrical Characteristics

Contact Limiting Short-Time Current	2 A
Contact Limiting Making Current	2 A
Contact Limiting Continuous Current	2 A
Contact Limiting Breaking Current	2 A
Insulation Initial Dielectric Between Open Contacts	750 Vrms



Insulation Initial Dielectric Between Adjacent Contacts	1000 Vrms
Contact Switching Voltage (Max)	250 VAC
Contact Switching Load (Min)	.1mA @ .0001V
Voltage Standing Wave Ration (HF Parameter)	1.06db @ 100MHz, 1.49db @ 900MHz
Coil Resistance	1440 Ω
Insulation Initial Resistance	1000000 M Ω
Contact Current Rating	2 A
Coil Voltage Rating	12 VDC
Contact Voltage Rating	220 VDC
Coil Power Rating DC	.1 W
Insulation Initial Dielectric Between Contacts & Coil	1800 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 Plating Material	Gold
Contact Material	PdRu

Termination Features

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

Mechanical Attachment

Product Mount Type	Board Mount
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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

Operating Temperature Range	-40 – 85 °C
Environmental Category of Protection	RTV



Environmental Ambient Temperature (Max)	85 °C[185 °F]
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Operation/Application

Solder Process	Reflow Solder
Current Type	DC
Coil Magnetic System	Bistable, 1 Coil

Packaging Features

Packaging Method	Reel
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Other

Coil Power Rating Class	.05 – .3 W
Contact Current Class	0 – 2 A
Environmental Ambient Temperature Class	70 – 85 °C
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

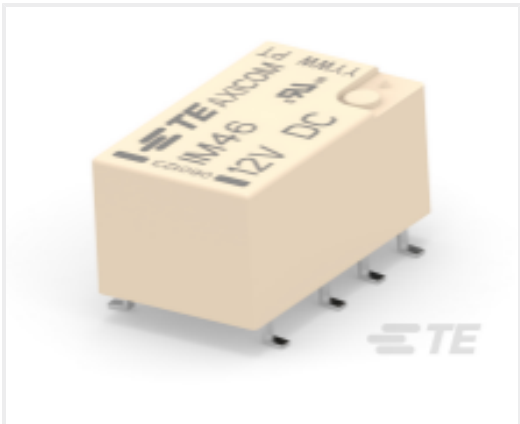
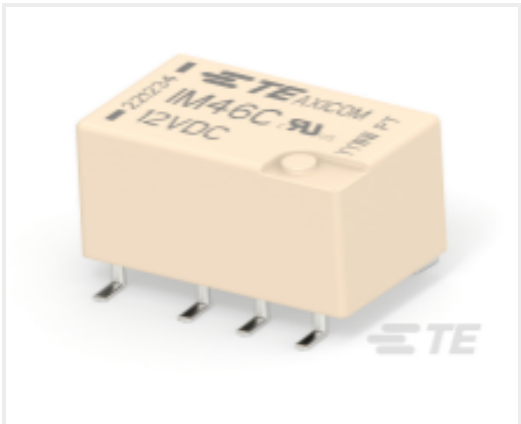
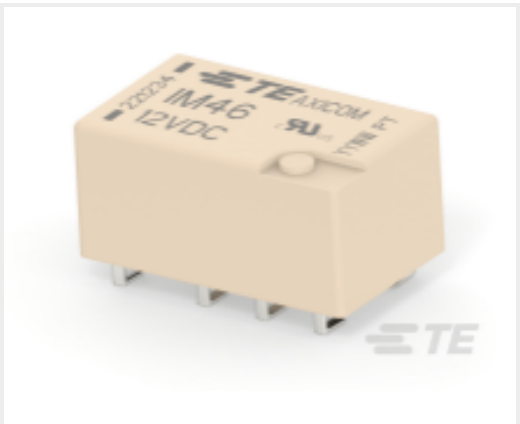
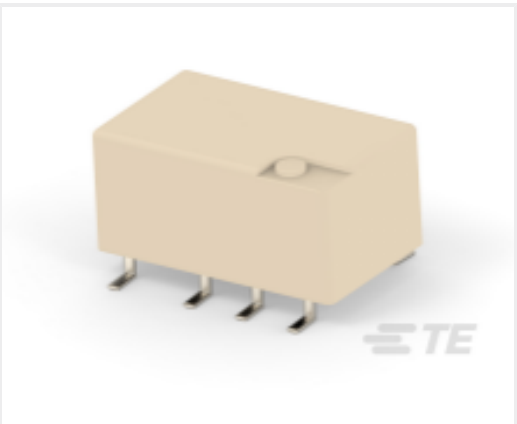
Product Compliance Disclaimer

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

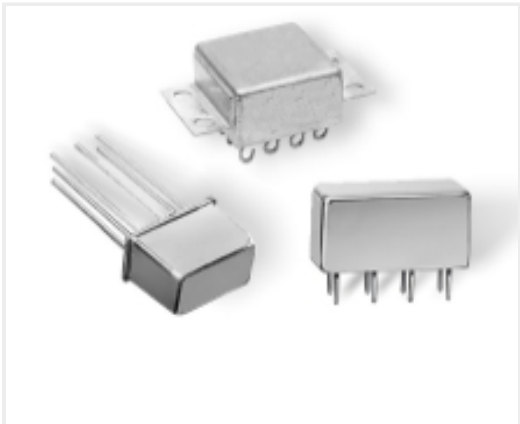


as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

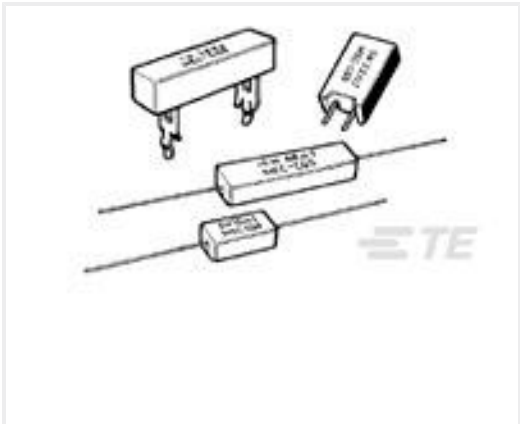
Compatible Parts

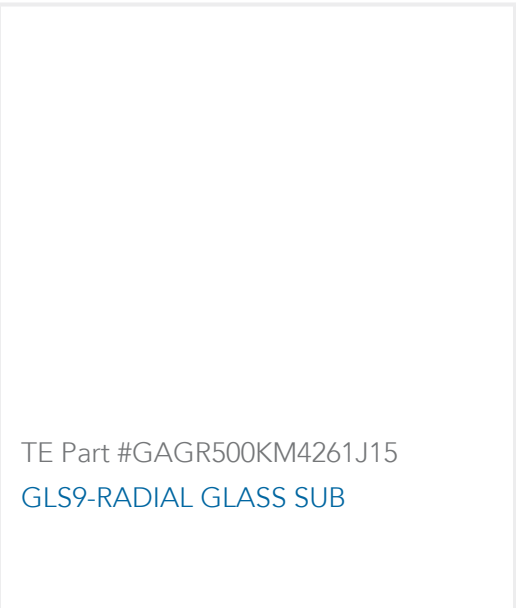
 TE Part # 3-1462040-5 IM46SR=IM RELAY 100mW 12V BIS short gw	 TE Part # 8-1462039-0 IM46CGR=IM RELAY 100mW 12V BIS HDV	 TE Part # 6-1462037-8 IM46JR=IM RELAY 100mW 12V BIS	 TE Part # 1-1462047-0 IM46IGR=IM RELAY 100mW 12V BIS
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Also in the Series | Axicom IM

 DC Relays(142)	 PCB Relays(142)	 RJ45 Connectors(2)
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Customers Also Bought

 TE Part #2007132-1 SFP+ 1X4 Cage Assembly, Press-	 TE Part #9-2176089-9 RP 1J 0.166W 127K 0.1% 25PPM 1K RL	 TE Part #9-1456610-2 16P 040 VERT HYBRID CAP ASSY	 TE Part #CONMMCX011 MMCX Jack 50 Ohm Cable Crimp
 TE Part #1-1623788-2 SQM5 2R2 5% (WIRE)	 TE Part #5558070-1 MJ,R/A,10P,PNL GRN,DIR COMPT	 TE Part #154719-E SMCB 50 F AB VV 7-03 CL * H007 137 E002	 TE Part #5-1614352-6 RN 0603 20K 0.1% 10PPM 1K RL



Documents

Product Drawings

IM46GR=IM RELAY 100mW 12V BIS

English

CAD Files

Customer View Model

ENG_CVM_CVM_1462037-2_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1462037-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1462037-2_A.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_6-1462037-7_B5.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6-1462037-7_B5.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_6-1462037-7_B5.2d_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



Product Specifications

Definitions General Purpose Relays

English

Agency Approvals

VDE Certificate

English