RY212012 ✔ ACTIVE

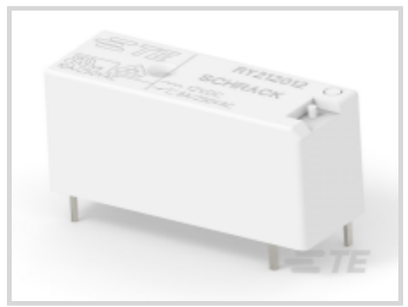
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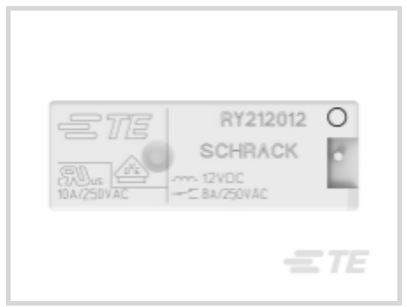
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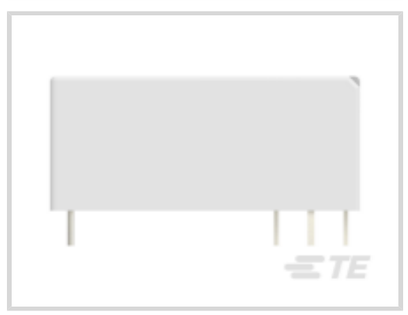
General Purpose Power Relay, DC, Monostable, 1 Form C SPDT-CO, 8 A Contact Rating, 12 VDC Coil Voltage, 250 VAC Contact Voltage, .23 W Coil Power

View on TE.com >

Relays & Contactors > Electromechanical Relays







Relay & Contactor Type: **General Purpose Power Relay**

Coil Magnetic System: **Monostable**

Contact Arrangement: **1 Form C SPDT-CO**

Current Type: **DC**

Contact Current Rating: **8 A**

Features

Product Type Features

Relay & Contactor Type	General Purpose Power Relay

Configuration Features

Contact Number of Poles	1
Contact Arrangement	1 Form C SPDT-CO

Electrical Characteristics

Contact Limiting Short-Time Current	8 A
Contact Limiting Making Current	8 A
Contact Limiting Continuous Current	8 A
Contact Limiting Breaking Current	8 A
Insulation Initial Dielectric Between Open Contacts	1000 Vrms
Contact Switching Voltage (Max)	400 VAC
Coil Resistance	627 Ω
Contact Current Rating	8 A
Coil Voltage Rating	12 VDC

Contact Voltage Rating	250 VAC
Coil Power Rating DC	.23 W
Insulation Initial Dielectric Between Contacts & Coil	5000 Vrms

Body Features

Product Weight	8 g[.282 oz]
Enclosure Type	Flux Resistant Automatic Solder Capable

Contact Features

Contact Plating Material	Gold
Contact Material	AgNi0.15

Termination Features

Main Termination & Connection Type	Solder Pins
Coil Termination & Connection Type	Solder Pins

Mechanical Attachment

Product Mount Type	Board Mount

Dimensions

Insulation Clearance Between Contact & Coil	8 mm[.315 in]
Insulation Creepage Between Contact & Coil	8 mm[.315 in]
Product Width	10.1 mm[.398 in]
Product Length	28.5 mm[1.122 in]
Product Height	12.3 mm[.484 in]

Usage Conditions

Operating Temperature Range	-40 – 70 °C[-40 – 158 °F]
Environmental Category of Protection	RTII
Environmental Ambient Temperature (Max)	70 °C[158 °F]

Operation/Application

Solder Process	Wave Solder Capable
Coil Magnetic System	Monostable
Current Type	DC

Packaging Features

Packaging Method	Box & Tube, Tube

Other

Coil Power Rating Class	>.2 – ≤.3 W
Contact Current Class	>5 – ≤10 A
Height Class (Mechanical)	>11 – ≤14 mm[>.433 – ≤.551 in]
Length Class (Mechanical)	>22 – ≤33 mm[>.866 – ≤1.299 in]
Width Class (Mechanical)	>7 – ≤11 mm[>.276 – ≤.433 in]

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 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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 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

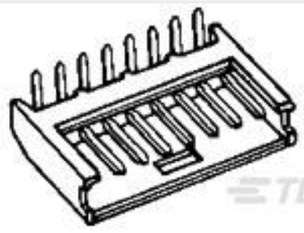


TE Part # 7-1393161-3
RY78600

Customers Also Bought



TE Part #5-104186-1
04 SYS 50 HDR SRRA UNSHRD TIN



TE Part #280379-1
6P AMPMODU II SHRD HDR, RT ANG, TIN



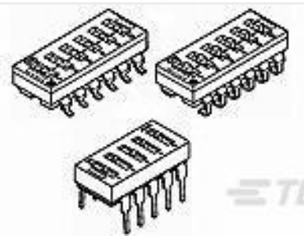
TE Part #280389-1
2X4P MODU II SHRD HDR, RT ANG, TIN



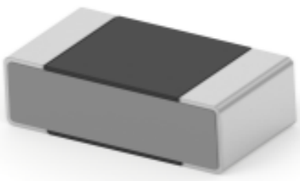
TE Part #2-1416010-4
RE034006



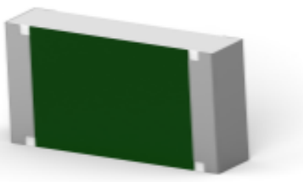
TE Part #1622447-1
LR1 1% 360R



TE Part #1825360-4
ADE06A04=6 POS DIP SWITCH



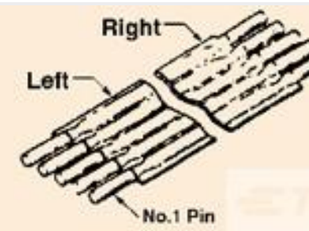
TE Part #8-1879417-2
CPF0603 866K 0.1% 25PPM 1K RL



TE Part #8-2176398-9
3502 33R 5%



TE Part #4-2176613-9
EP 4W (SS) 100R 5%



TE Part #3-1437142-4
FSN-22A-14=NOMEX FS STD

Documents

CAD Files

Customer View Model
ENG_CVM_CVM_5-1393224-5_D.3d_igs.zip
English

Customer View Model
ENG_CVM_CVM_5-1393224-5_D.3d_stp.zip
English

Customer View Model
ENG_CVM_CVM_5-1393224-5_D.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

Miniature Power PCB Relay RYII
English

Product Specifications

Definitions General Purpose Relays

English

Agency Approvals

VDE Certificate

English