

RTD14024F

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield Power PCB Relay RT1

TE Internal #: 3-1419108-1

General Purpose Power Relay, DC, Monostable, 1 Form C SPDT-CO, 16 A Contact Rating, 24 VDC Coil Voltage, Potter & Brumfield Power PCB Relay RT1

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Relays & Contactors > Electromechanical Relays



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

Current Type: **DC**

Coil Magnetic System: **Monostable**

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

Contact Current Rating: **16 A**

Features

Product Type Features

Relay & Contactor Type	General Purpose Power Relay
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Configuration Features

Contact Number of Poles	1
Coil Special Features	UL Coil Insulation Class F
Contact Arrangement	1 Form C SPDT-CO

Electrical Characteristics

Contact Limiting Making Current	30 A
Contact Limiting Continuous Current	16 A
Contact Limiting Breaking Current	16 A
Insulation Initial Dielectric Between Open Contacts	1000 Vrms
Contact Switching Voltage (Max)	400 VAC
Coil Resistance	1440 Ω
Contact Current Rating	16 A
Coil Voltage Rating	24 VDC
Contact Voltage Rating	250 VAC
Coil Power Rating DC	.4 W
Insulation Initial Dielectric Between Contacts & Coil	5000 Vrms

Body Features



Product Weight	14 g[.494 oz]
Enclosure Type	Flux Resistant Automatic Solder Capable & Washable

Contact Features

Contact Material	AgNi90/10
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Termination Features

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

Mechanical Attachment

Product Mount Type	Board Mount
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Dimensions

Insulation Clearance Between Contact & Coil	10 mm[.394 in]
Insulation Creepage Between Contact & Coil	10 mm[.394 in]
Product Width	12.7 mm[.5 in]
Product Length	29 mm[1.14 in]
Product Height	15.7 mm[.618 in]

Usage Conditions

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

Operation/Application

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

Packaging Features

Packaging Method	Carton, Tube
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Other

Coil Power Rating Class	.3 – .4 W
Contact Current Class	16 A
Environmental Ambient Temperature Class	70 – 85 °C
Height Class (Mechanical)	15 – 16 mm
Length Class (Mechanical)	25 – 30 mm



Width Class (Mechanical)

12 – 16 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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 260°C

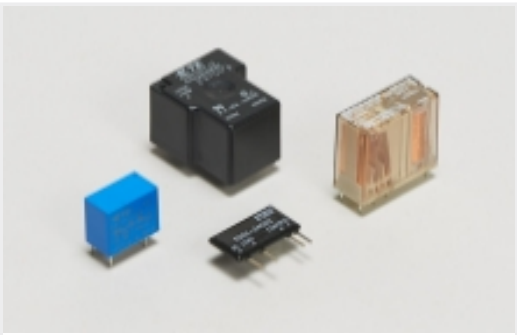
Product Compliance Disclaimer

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>

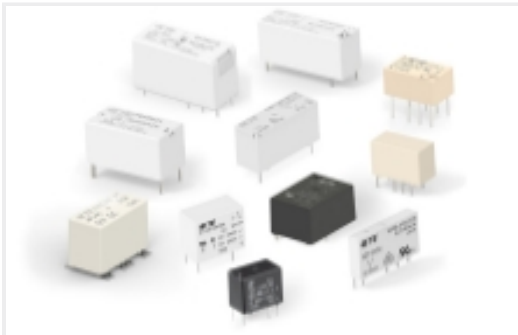
Compatible Parts



Also in the Series | [Potter & Brumfield Power PCB Relay RT1](#)



General Purpose Power Relays(26)



PCB Relays(26)

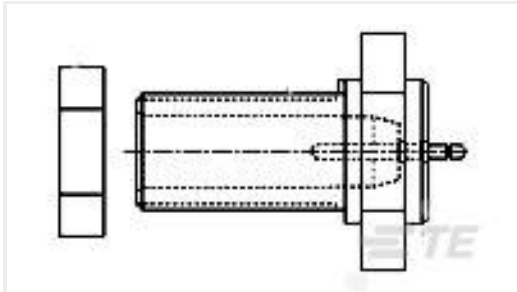
Customers Also Bought



TE Part #1-1617030-9
HFW1201F00 = HFW 1/2 SIZE RELA



TE Part #5-861610-1
LGH HIGH VOLTAGE PLUG



TE Part #861611-1
RECEPTACLE



TE Part #3-640434-3
03P MTA156 CONN ASSY 24AWG WHT



TE Part #103906-3
04 MTE HDR SRRA LATCH .100CL



TE Part #5558310-1
MOD/JK,ASSY,8 POS,R/A,KEY/SHLD



TE Part #1571078-4
PRASB2-16F-BBR00=POWER ROCKER



TE Part #3-641208-6
06P MTA156 HDR ASSY FL ST LF



TE Part #8-324918-2
TERMINAL,PIDG R 12-10 10



TE Part #5-146280-3
03 MODII HDR SRST B/A .100CL

Documents

CAD Files

Customer View Model

[ENG_CVM_CVM_3-1419108-1_G.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-1419108-1_G.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-1419108-1_G.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

[Power PCB Relay RT1 Potter & Brumfield](#)

English

Product Specifications

[Definitions General Purpose Relays](#)

English

Agency Approvals

[VDE Certificate](#)

English