

RTB14048F

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield Power PCB Relay RT1

TE Internal #: 1393242-3

Potter & Brumfield Power PCB Relay RT1, Power Relays, Standard, Monostable, DC, 400 – 500mW Coil Power Rating Class, 417mW Coil Power Rating DC

[View on TE.com >](#)



Relays, Contactors & Switches > Relays > Power Relays



Power Relay Type: **Standard**
Coil Magnetic System: **Monostable, DC**
Coil Power Rating Class: **400 – 500 mW**
Coil Power Rating DC: **417 mW**
Coil Resistance: **5520 Ω**

Features

Product Type Features

Power Relay Type	Standard
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Electrical Characteristics

Insulation Initial Dielectric Between Coil & Contact Class	4000 V
Insulation Initial Dielectric Between Open Contacts	1000 Vrms
Contact Limiting Making Current	25 A
Contact Limiting Short-Time Current	12 A
Contact Limiting Continuous Current	12 A
Insulation Creepage Class	8 mm
Insulation Initial Dielectric Between Contacts & Coil	5000 Vrms
Insulation Creepage Between Contact & Coil	10 mm[.394 in]
Contact Limiting Breaking Current	12 A
Coil Magnetic System	Monostable, DC
Coil Power Rating Class	400 – 500 mW
Coil Power Rating DC	417 mW
Coil Resistance	5520 Ω
Coil Special Features	UL Coil Insulation Class F
Coil Voltage Rating	48 VDC
Contact Switching Voltage (Max)	400 VAC



Contact Voltage Rating	250 VAC
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Body Features

Insulation Special Features	Tracking Index of Relay Base PTI250
Product Weight	14 g[.494 oz]

Contact Features

Contact Arrangement	1 Form C (CO)
Contact Current Class	10 – 20 A, 16 A
Contact Current Rating (Max)	12 A
Contact Material	AgNi90/10
Contact Number of Poles	1
Relay Terminal Type	PCB-THT, Plug-In

Mechanical Attachment

Relay Mounting Type	Printed Circuit Board, Socket
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Dimensions

Length Class (Mechanical)	25 – 30 mm
Insulation Clearance Class	8 mm
Height Class (Mechanical)	15 – 16 mm
Insulation Clearance Between Contact & Coil	10 mm[.394 in]
Width Class (Mechanical)	12 – 16 mm
Product Width	12.7 mm[.5 in]
Product Length	29 mm[1.142 in]
Product Height	15.7 mm[.618 in]

Usage Conditions

Environmental Ambient Temperature Class	70 – 85 °C
Environmental Ambient Temperature (Max)	85 °C[185 °F]

Packaging Features

Packaging Method	Box & Tube, Carton
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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: JUL 2021 (219) Candidate List Declared Against: JUN 2020 (209) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 260°C

Product Compliance Disclaimer

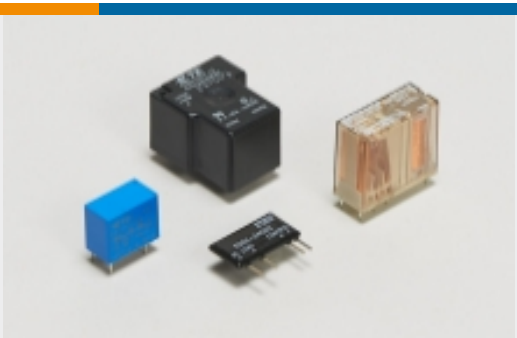
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



TE Part # 2-1393238-1
RTB14048

Also in the Series | Potter & Brumfield Power PCB Relay RT1



Power Relays(27)

Customers Also Bought



TE Part #DTT-20-03
CRIMP TOOL

TE Part #K1007153
Toggle Switch 08-1-1-13

TE Part #K1060489
Relay 29-113-12

TE Part #DRC16-70SBE-P013UK
PLG, 70P, BLK, E, SEAL BOND, B

TE Part #YHDP26-24-35PEL017
PLG, 35P, BLK, E, RNG, 16/20, P

TE Part #834936-000
MWTM-10/3-100/S(S100)

TE Part #K1002956
Toggle Switch 08-4-1-13

TE Part #K1008699
Relay 26-60-05

TE Part #HDP24-24-16SE-L015
REC, 16P, BLK, E, THD, 12, S

TE Part #SRK-PC-080-25-601
PIN, SOLID, SIZE M8, 25mm2, AG

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1393242-3_E.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1393242-3_E.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1393242-3_E.3d_stp.zip

English

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, Handling, Processing, Testing and Use of Relays

English

Agency Approvals

VDE Certificate

English

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[1393242-3](#)