

R10-R2P6-V90

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield R10

TE Internal #: 8-1423983-5

Potter & Brumfield R10, Power Relays, Industrial Panel Plug-In,  
Monostable, DC, 1600mW Coil Power Rating DC, 90Ω Coil  
Resistance

[View on TE.com >](#)



Relays, Contactors & Switches > Relays > Power Relays



Power Relay Type: **Industrial Panel Plug-In**  
Coil Magnetic System: **Monostable, DC**  
Coil Power Rating DC: **1600 mW**  
Coil Resistance: **90 Ω**  
Coil Voltage Rating: **12 VDC**

Features

Product Type Features

Power Relay Type	Industrial Panel Plug-In
------------------	--------------------------

Electrical Characteristics

Insulation Initial Dielectric Between Coil & Contact Class	500 – 1000 V
Insulation Initial Dielectric Between Contacts & Coil	1000 Vrms
Actuating System	DC
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	3 A
Contact Limiting Short-Time Current	3 A
Contact Limiting Continuous Current	3 A
Insulation Initial Dielectric Between Adjacent Contacts	1000 Vrms
Insulation Initial Resistance	100 MΩ
Contact Limiting Breaking Current	3 A
Coil Magnetic System	Monostable, DC
Coil Power Rating DC	1600 mW
Coil Resistance	90 Ω
Coil Voltage Rating	12 VDC
Contact Switching Load (Min)	0mA @ 0V
Contact Voltage Rating	120 VAC



Body Features

Product Weight	40 g[1.41 oz]
----------------	---------------

Contact Features

Contact Plating Material	Gold
Contact Special Features	Bifurcated/Twin Contacts
Contact Arrangement	6 Form C (CO)
Contact Current Class	2 – 5 A, 16 A
Contact Current Rating (Max)	3 A
Contact Material	Ag
Contact Number of Poles	6
Terminal Type	PCB-THT

Mechanical Attachment

Relay Mounting Type	Printed Circuit Board
---------------------	-----------------------

Dimensions

Length Class (Mechanical)	30 – 35 mm
Height Class (Mechanical)	30 – 40 mm
Width Class (Mechanical)	16 – 20 mm
Product Width	18.7 mm[.736 in]
Product Length	34.9 mm[1.374 in]
Product Height	30.2 mm[1.189 in]

Usage Conditions

Environmental Ambient Temperature Class	70 – 85 °C
Environmental Ambient Temperature (Max)	75 °C[167 °F]
Operating Temperature Range	-55 – 75 °C

Packaging Features

Packaging Method	Package
------------------	---------

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 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

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

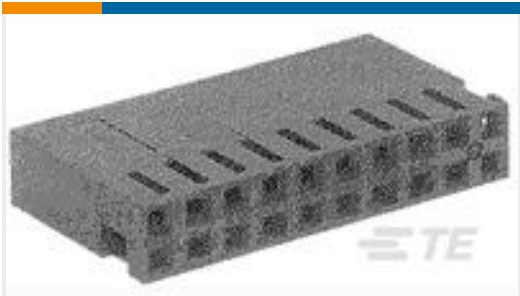
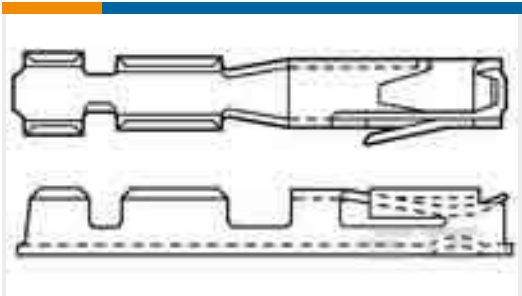


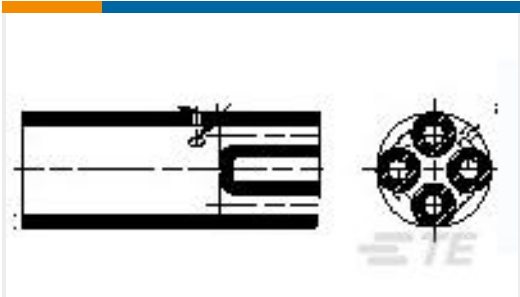
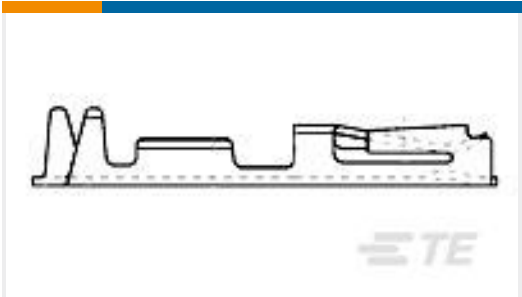
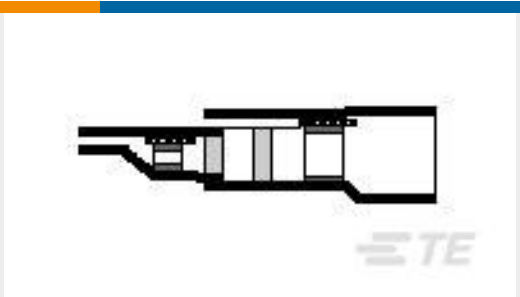

TE Part # 7-1393765-8  
R10-E1P6-V90=R10

## Also in the Series | Potter & Brumfield R10

Board-to-Board Headers & Receptacles(1)	Power Relays(180)	Relay Accessories, Sockets & Clips(34)

## Customers Also Bought



 <p>TE Part #2-530902-5 50 T/SPRING HSG DR .100CL</p>	 <p>TE Part #5530553-4 T/SPRING STMPD</p>	 <p>TE Part #2-1532179-3 M83513/03-A07C, MCKS-C2-B-9P5L5-0.5</p>	 <p>TE Part #5-1803058-2 ANVIL COMBINATION</p>
 <p>TE Part #599601-002 502A823-25-0</p>	 <p>TE Part #531225-6 T/SPRING STMPD</p>	 <p>TE Part #496837-000 B-043-26-N</p>	 <p>TE Part #YDIV44E25-35SDC001 RECP ASSY</p>

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_8-1423983-5\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_8-1423983-5\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_8-1423983-5\_A.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

Industrial Relays Quick Reference Guide

English

Industrial Relays Quick Reference Guide

Japanese

Industrial Relays Quick Reference Guide

Product Specifications

Definitions, Handling, Processing, Testing and Use of Relays

English

# Mouser Electronics

Authorized Distributor

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

[TE Connectivity:](#)

[8-1423983-5](#)