# 5-1415390-1 ACTIVE

# SCHRACK | SCHRACK Miniature PCB Relay PE bistable

TE Internal #: 5-1415390-1

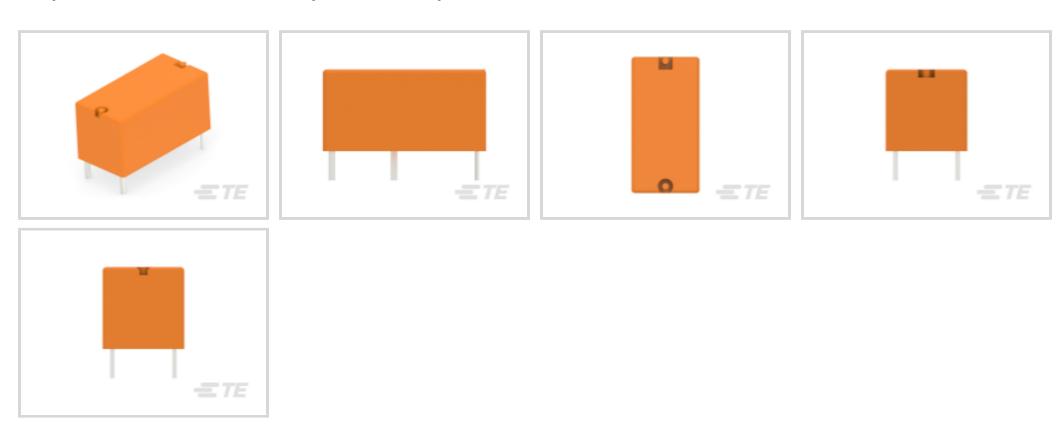
Power Relays, Standard, Bistable, 1 Coil, Polarized, 209 mW Coil Power Rating DC, 2750  $\Omega$  Coil Resistance, SCHRACK Miniature PCB

Relay PE bistable

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Relays, Contactors & Switches > Relays > Power Relays



Power Relay Type: Standard

Coil Magnetic System: Bistable, 1 Coil, Polarized

Coil Power Rating Class: 200 – 300 mW

Coil Power Rating DC: 209 mW

Coil Resistance:  $2750 \Omega$ 

### **Features**

# **Product Type Features**

Power Relay Type	Standard
Electrical Characteristics	
Insulation Initial Dielectric Between Coil & Contact Class	3500 – 4000 V
Insulation Initial Dielectric Between Open Contacts	1000 Vrms
Contact Limiting Making Current	5 A
Contact Limiting Short-Time Current	5 A
Contact Limiting Continuous Current	5 A
Insulation Creepage Class	3 – 5.5 mm
Insulation Initial Dielectric Between Contacts & Coil	4000 Vrms
Insulation Initial Resistance	10000000 ΜΩ
Insulation Creepage Between Contact & Coil	4 mm[.157 in]
Contact Limiting Breaking Current	5 A
Coil Magnetic System	Bistable, 1 Coil, Polarized
Coil Power Rating Class	200 – 300 mW



Coil Resistance         275 0 Q           Coil Valtage Rating         24 VDC           Contact Switching Voltage (Max)         400 VAC           Contact Voltage Rating         750 VAC           Body Features           Insulation Special Features         Tracking Index of Relay Base PTI250           Product Weight         5 gl 1764 oz           Contact Features         1 Form C (CO)           Contact Arrangement         1 Form C (CO)           Contact Gurrent Class         5 – 10 A, 16 A           Contact Material         AgN 90/10           Contact Material         AgN 90/10           Contact Number of Poles         1           Relay Terminal Type         PCB THT           Mechanical Attachment         Printed Circuit Board           Dimensions         2.5 – 4 mm           Length Class (Mechanical)         16 – 20 mm           Insulation Clearance Class         2.5 – 4 mm           Height Class (Mechanical)         8 – 10 mm           Insulation Clearance Between Contact & Coil         3.2 mm,1726 in]           Width Class (Mechanical)         8 – 10 mm           Product Length         20 mm, 394 in]           Product Length         20 mm, 394 in]           Product Length         20 mm,	Coil Power Rating DC	209 mW
Contact Switching Voltage (Max)		
Contact Switching Voltage (Max)	Coil Voltage Rating	24 VDC
Contact Voltage Rating         250 VAC           Body Features         Tracking Index of Relay Base PTI250           Product Weight         5 gl. 1764 ozl           Contact Arrangement         1 Form C (CO)           Contact Current Class         5 – 10 A, 16 A           Contact Material         AgN790/10           Contact Number of Poles         1           Relay Terminal Type         PCB-THT           Mechanical Attachment         Printed Circuit Board           Dimensions         2.5 – 4 mm           Length Class (Mechanical)         16 – 20 mm           Insulation Clearance Class         2.5 – 4 mm           Insulation Clearance Between Contact & Coil         3.2 mm [126 in]           Wridth Class (Mechanical)         8 – 10 mm           Product Width         10 mm [.394 in]           Product Height         20 mm [.787 in]           Product Height         10 mm [.394 in]           Usage Conditions         Environmental Ambient Temperature Class         70 – 85 °C           Environmental Ambient Temperature (Max)         85 °C [185 °F]		400 VAC
Insulation Special Features		250 VAC
Product Weight         5 g[.1764 oz]           Contact Features         1 Form C (CO)           Contact Current Class         5 - 10 A, 16 A           Contact Current Rating (Max)         5 A           Contact Material         AgN/90/10           Contact Number of Poles         1           Relay Terminal Type         PCB-THT           Mechanical Attachment         PCB-THT           Mechanical Attachment         Printed Circuit Board           Dimensions         16 - 20 mm           Length Class (Mechanical)         16 - 20 mm           Insulation Clearance Class         2.5 - 4 rm           Height Class (Mechanical)         9 - 10 mm           Insulation Clearance Between Contact & Coil         3.2 mm[.126 in]           Width Class (Mechanical)         8 - 10 mm           Product Width         10 mm[.394 in]           Product Length         20 mm[.787 in]           Product Height         10 mm[.394 in]           Usage Conditions         Environmental Ambient Temperature Class         70 - 85 °C           Environmental Ambient Temperature (Max)         85 °C[185 °I]	Body Features	
Contact Features  Contact Arrangement 1 Form C (CO)  Contact Current Class 5 – 10 A, 16 A  Contact Current Rating (Max) 5 A  Contact Material AgNi90/10  Contact Number of Poles 1  Relay Terminal Type PCB-THT  Mechanical Attachment  Relay Mounting Type Printed Circuit Board  Dimensions  Length Class (Mechanical) 16 – 20 mm  Insulation Clearance Class 2,5 – 4 mm  Height Class (Mechanical) 9 – 10 mm  Insulation Clearance Between Contact & Coil 3,2 mm[.126 in]  Width Class (Mechanical) 8 – 10 mm  Product Length 10 mm[.394 in]  Product Height 10 mm[.394 in]  Usage Conditions  Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) 85 °C[185 °F]  Packaging Features	Insulation Special Features	Tracking Index of Relay Base PTI250
Contact Arrangement 1 Form C (CO)  Contact Current Class 5 – 10 A, 16 A  Contact Current Rating (Max) 5 A  Contact Material Agniver of Poles 1  Relay Terminal Type PCB-THT  Mechanical Attachment  Relay Mounting Type Printed Circuit Board  Dimensions  Length Class (Mechanical) 16 – 20 mm  Insulation Clearance Class 2.5 – 4 mm  Height Class (Mechanical) 9 – 10 mm  Insulation Clearance Between Contact & Coil 3.2 mm[,126 in]  Width Class (Mechanical) 10 mm[,394 in]  Product Width 10 mm[,394 in]  Product Length 20 mm[,394 in]  Product Height Usage Conditions  Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) 85 °C(185 °F)  Packaging Features	Product Weight	5 g[.1764 oz]
Contact Current Class Contact Current Rating (Max) Contact Material Contact Number of Poles Relay Terminal Type Mechanical Attachment Relay Mounting Type Printed Circuit Board  Dimensions  Length Class (Mechanical) Insulation Clearance Class Height Class (Mechanical) Insulation Clearance Between Contact & Coil Width Class (Mechanical) Product Width Product Length Product Length Product Height Usage Conditions  Environmental Ambient Temperature Class Fackaging Features  Packaging Features	Contact Features	
Contact Current Rating (Max)  Contact Material  Contact Number of Poles  Relay Terminal Type  Mechanical Attachment  Relay Mounting Type  Printed Circuit Board  Dimensions  Length Class (Mechanical)  Insulation Clearance Class  Height Class (Mechanical)  Insulation Clearance Between Contact & Coil  Width Class (Mechanical)  Product Width  Product Length  Product Length  Product Height  Usage Conditions  Environmental Ambient Temperature Class  Packaging Features  1 AgNi90/10  1 AgNi90/10  1 Contact May 19  PCB-THT  PCB-THT  PCB-THT  PCB-THT  PCB-THT  PCB-THT  AgNi90/10  10 AgNi90/10  10 AgNi90/10  10 Agnied Circuit Board  16 - 20 mm  16 - 20 mm  16 - 20 mm  16 - 20 mm  17 Agnied  18 - 10 mm  19 - 10 mm  19 To mm[.394 in]  10 mm[.394 in]	Contact Arrangement	1 Form C (CO)
Contact Material AgNi90/10  Contact Number of Poles 1  Relay Terminal Type PCB-THT  Mechanical Attachment  Relay Mounting Type Printed Circuit Board  Dimensions  Length Class (Mechanical) 16 – 20 mm  Insulation Clearance Class 2.5 – 4 mm  Height Class (Mechanical) 9 – 10 mm  Insulation Clearance Between Contact & Coil 3.2 mm[.126 in]  Width Class (Mechanical) 8 – 10 mm  Product Width 10 mm[.394 in]  Product Length 20 mm[.394 in]  Product Height Usage Conditions  Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) Packaging Features	Contact Current Class	5 – 10 A, 16 A
Contact Number of Poles  Relay Terminal Type  Mechanical Attachment  Relay Mounting Type  Printed Circuit Board  Dimensions  Length Class (Mechanical) Insulation Clearance Class  Height Class (Mechanical) Insulation Clearance Between Contact & Coil  Width Class (Mechanical)  Product Width  10 mm[.394 in]  Product Length  Product Height  Usage Conditions  Environmental Ambient Temperature Class  Packaging Features	Contact Current Rating (Max)	5 A
Relay Terminal Type  Mechanical Attachment  Relay Mounting Type  Printed Circuit Board  Printed Circuit Board  Dimensions  Length Class (Mechanical) Insulation Clearance Class  Height Class (Mechanical) Product Setween Contact & Coil Width Class (Mechanical) Product Width 10 mm[.394 in] Product Length Product Height Usage Conditions  Environmental Ambient Temperature Class  Packaging Features	Contact Material	AgNi90/10
Relay Mounting Type Printed Circuit Board  Dimensions  Length Class (Mechanical) 16 – 20 mm  Insulation Clearance Class 2.5 – 4 mm  Height Class (Mechanical) 9 – 10 mm  Insulation Clearance Between Contact & Coil 3.2 mm[,126 in]  Width Class (Mechanical) 8 – 10 mm  Product Width 10 mm[,394 in]  Product Length 20 mm[,787 in]  Product Height Usage Conditions  Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) 85 °C[185 °F]  Packaging Features	Contact Number of Poles	1
Relay Mounting Type  Dimensions  Length Class (Mechanical) Insulation Clearance Class Aleight Class (Mechanical) Perduct Clearance Between Contact & Coil Width Class (Mechanical) Product Width Order Mounting Type  Brought Class (Mechanical) Product Length Product Length Product Height Usage Conditions  Environmental Ambient Temperature (Max) Packaging Features	Relay Terminal Type	PCB-THT
Length Class (Mechanical)  Length Class (Mechanical)  Insulation Clearance Class  Height Class (Mechanical)  Insulation Clearance Between Contact & Coil  Width Class (Mechanical)  Product Width  Product Width  Product Length  Product Length  Product Height  Usage Conditions  Environmental Ambient Temperature Class  Packaging Features	Mechanical Attachment	
Length Class (Mechanical)  Insulation Clearance Class  2.5 – 4 mm  Height Class (Mechanical)  Insulation Clearance Between Contact & Coil  Width Class (Mechanical)  Product Width  Product Width  Product Length  Product Height  Usage Conditions  Environmental Ambient Temperature Class  Packaging Features  16 – 20 mm  16 – 20 mm  16 – 20 mm  10 mm  125 in]  10 mm  126 in]  10 mm  127 in]  10 mm  10 m	Relay Mounting Type	Printed Circuit Board
Insulation Clearance Class  4.5 – 4 mm  Height Class (Mechanical)  Insulation Clearance Between Contact & Coil  3.2 mm[.126 in]  Width Class (Mechanical)  Product Width  10 mm[.394 in]  Product Length  Product Height  10 mm[.394 in]  Usage Conditions  Environmental Ambient Temperature Class  For Environmental Ambient Temperature (Max)  Packaging Features  2.5 – 4 mm  9 – 10 mm  10 mm  126 in]  8 – 10 mm  10 mm[.394 in]  10 mm[.394 in]  85 °C  10 mm  10	Dimensions	
Height Class (Mechanical)  Insulation Clearance Between Contact & Coil  Width Class (Mechanical)  Product Width  Product Length  Product Height  Usage Conditions  Environmental Ambient Temperature (Max)  Packaging Features  9 – 10 mm  3.2 mm[.126 in]  8 – 10 mm  10 mm[.394 in]  10 mm[.394 in]  70 – 85 °C  85 °C[185 °F]	Length Class (Mechanical)	16 – 20 mm
Insulation Clearance Between Contact & Coil  Width Class (Mechanical)  Product Width  10 mm[.394 in]  Product Length  20 mm[.787 in]  Product Height  Usage Conditions  Environmental Ambient Temperature Class  Find Temperature (Max)  Packaging Features  3.2 mm[.126 in]  8 – 10 mm  10 mm[.394 in]  70 – 85 °C  85 °C[185 °F]	Insulation Clearance Class	2.5 – 4 mm
Width Class (Mechanical)  Product Width  10 mm[.394 in]  Product Length  20 mm[.787 in]  Product Height  10 mm[.394 in]  Usage Conditions  Environmental Ambient Temperature Class  70 – 85 °C  Environmental Ambient Temperature (Max)  Packaging Features	Height Class (Mechanical)	9 – 10 mm
Product Width 10 mm[.394 in]  Product Length 20 mm[.787 in]  Product Height 10 mm[.394 in]  Usage Conditions  Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) 85 °C[185 °F]  Packaging Features	Insulation Clearance Between Contact & Coil	3.2 mm[.126 in]
Product Length 20 mm[.787 in]  Product Height 10 mm[.394 in]  Usage Conditions  Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) 85 °C[185 °F]  Packaging Features	Width Class (Mechanical)	8 – 10 mm
Product Height 10 mm[.394 in]  Usage Conditions  Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) 85 °C[185 °F]  Packaging Features	Product Width	10 mm[.394 in]
Usage Conditions  Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) 85 °C[185 °F]  Packaging Features	Product Length	20 mm[.787 in]
Environmental Ambient Temperature Class 70 – 85 °C  Environmental Ambient Temperature (Max) 85 °C[185 °F]  Packaging Features	Product Height	10 mm[.394 in]
Environmental Ambient Temperature (Max)  85 °C[185 °F]  Packaging Features	Usage Conditions	
Packaging Features	Environmental Ambient Temperature Class	70 – 85 °C
	Environmental Ambient Temperature (Max)	85 °C[185 °F]
Packaging Method Box & Tube, Carton	Packaging Features	
	Packaging Method	Box & Tube, Carton



# **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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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

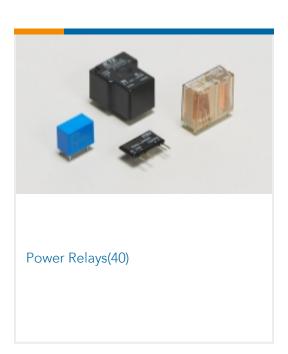
# Compatible Parts





Also in the Series | SCHRACK Miniature PCB Relay PE bistable





### **Documents**

#### **CAD Files**

**Customer View Model** 

ENG\_CVM\_CVM\_5-1415390-1\_E2.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5-1415390-1\_E2.3d\_stp.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5-1415390-1\_E2.2d\_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 PCB Relay PE bistable

English

# **Product Specifications**

Definitions, Handling, Processing, Testing and Use of Relays

English

# Agency Approvals

**VDE Certificate** 

English