

T9AP5D52-110

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield T9A

TE Internal #: 5-1419102-5

General Purpose Power Relay, DC, Monostable, 1 Form C SPDT-CO, 20 A Contact Rating, 110 VDC Coil Voltage, Potter & Brumfield T9A

[View on TE.com >](#)



Relays & Contactors > Electromechanical Relays > PCB Power Relay: 30 Amp, Monostable DC



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

Current Type: **DC**

Coil Magnetic System: **Monostable**

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

Contact Current Rating: **20 A**

[All PCB Power Relay: 30 Amp, Monostable DC \(57\)](#)

Features

Product Type Features

|                        |                             |
|------------------------|-----------------------------|
| Relay & Contactor Type | General Purpose Power Relay |
|------------------------|-----------------------------|

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 Short-Time Current                     | 20 A      |
| Contact Limiting Making Current                         | 20 A      |
| Contact Limiting Continuous Current                     | 20 A      |
| Contact Limiting Breaking Current                       | 20 A      |
| Insulation Initial Dielectric Between Open Contacts     | 1500 Vrms |
| Insulation Initial Dielectric Between Adjacent Contacts | 1500 Vrms |



|                                                       |                 |
|-------------------------------------------------------|-----------------|
| Coil Current                                          | .009 A          |
| Contact Switching Voltage (Max)                       | 277 VAC         |
| Contact Switching Load (Min)                          | 1000mA @ 5V     |
| Coil Resistance                                       | 12100 $\Omega$  |
| Insulation Initial Resistance                         | 1000 M $\Omega$ |
| Contact Current Rating                                | 20 A            |
| Coil Voltage Rating                                   | 110 VDC         |
| Contact Voltage Rating                                | 277 VAC         |
| Coil Power Rating DC                                  | 1 W             |
| Insulation Initial Dielectric Between Contacts & Coil | 2500 Vrms       |

Body Features

|                       |                |
|-----------------------|----------------|
| Product Weight        | 33 g[1.164 oz] |
| Primary Product Color | Black          |
| Enclosure Type        | Dust Protected |

Contact Features

|                  |                      |
|------------------|----------------------|
| Contact Material | Silver Cadmium Oxide |
|------------------|----------------------|

Termination Features

|                                    |                         |
|------------------------------------|-------------------------|
| Main Termination & Connection Type | Quick Connect Terminals |
| Coil Termination & Connection Type | Quick Connect Terminals |

Mechanical Attachment

|                               |                            |
|-------------------------------|----------------------------|
| Product Mounting Feature Type | Flange with Mounting Slots |
| Product Mount Type            | Panel Mount                |

Dimensions

|                                             |                   |
|---------------------------------------------|-------------------|
| Insulation Clearance Between Contact & Coil | 3.18 mm[.125 in]  |
| Insulation Creepage Between Contact & Coil  | 6.36 mm[.25 in]   |
| Product Width                               | 27.43 mm[1.08 in] |
| Product Length                              | 50.29 mm[1.97 in] |
| Product Height                              | 27.94 mm[1.1 in]  |

Usage Conditions

|                                         |                           |
|-----------------------------------------|---------------------------|
| Operating Temperature Range             | -55 – 85 °C[-67 – 185 °F] |
| Environmental Category of Protection    | RTI                       |
| Environmental Ambient Temperature (Max) | 85 °C[185 °F]             |



Operation/Application

|                      |            |
|----------------------|------------|
| Current Type         | DC         |
| Coil Magnetic System | Monostable |

Packaging Features

|                  |        |
|------------------|--------|
| Packaging Method | Bundle |
|------------------|--------|

Other

|                                         |            |
|-----------------------------------------|------------|
| Coil Power Rating Class                 | .8 – 1 W   |
| Contact Current Class                   | 16 A       |
| Environmental Ambient Temperature Class | 70 – 85 °C |
| Height Class (Mechanical)               | 25 – 30 mm |
| Length Class (Mechanical)               | 30 – 35 mm |
| Width Class (Mechanical)                | 25 – 30 mm |

Product Compliance

For compliance documentation, visit the product page on TE.com>

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EU ELV Directive 2000/53/EC                   | Not Yet Reviewed                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                                                                                                                                                                                                                                                                                                                                                                                                              |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<br>SVHC > Threshold:<br>Cadmium oxide (10% in 4735191994)<br><b>Article Safe Usage Statements:</b><br>Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                                                                                                                                                                                                                                                                                                                                    |
| Solder Process Capability                     | Wave solder capable to 260°C                                                                                                                                                                                                                                                                                                                                                                                                                      |

Product Compliance Disclaimer

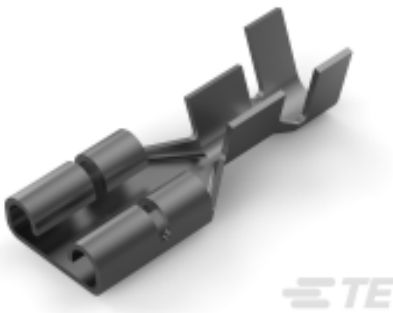
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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



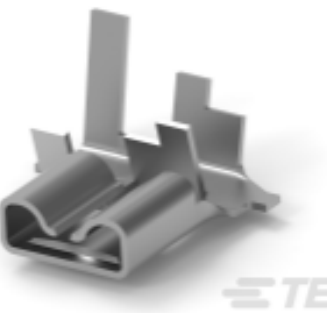


requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # 63306-2  
250 FASTON REC 18-14 AWG TPBR



TE Part # 2238209-3  
250 FASTON,FLAG,REC.,22-12 AWG, PTBR

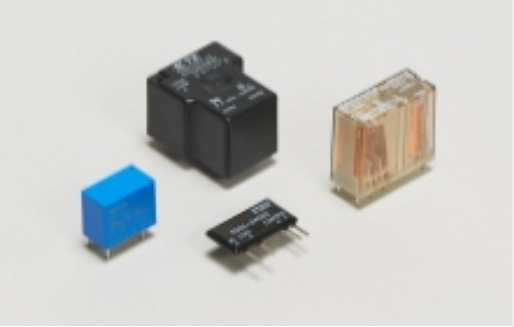


TE Part # 63435-1  
250 FASTON REC 14-10 AWG SPBR

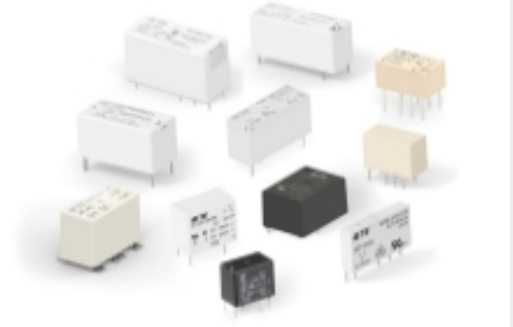


TE Part # 5-1419102-4  
T9AP5D52-12

Also in the Series | Potter & Brumfield T9A

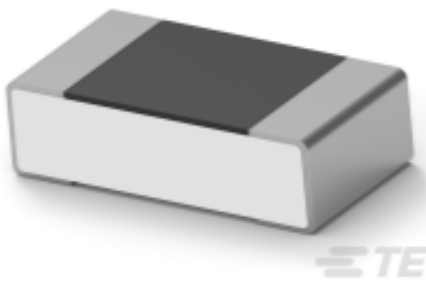


General Purpose Power Relays(57)

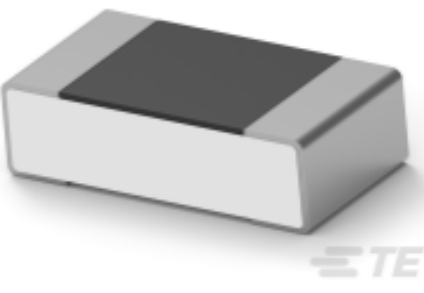


PCB Relays(47)

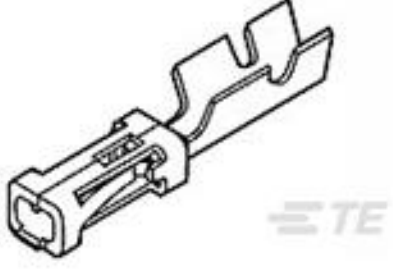
Customers Also Bought



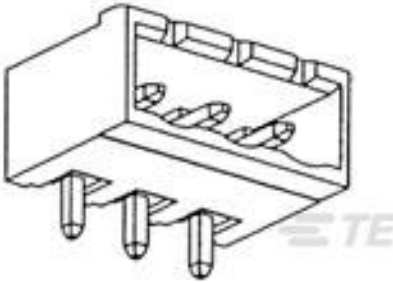
TE Part #9-2176371-5  
RQ 0603 44K2 0.1% 10PPM 5K RL



TE Part #8-2176371-6  
RQ 0603 35K7 0.1% 10PPM 5K RL



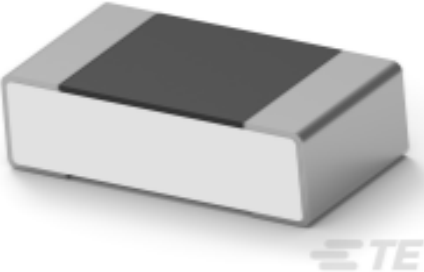
TE Part #87046-2  
MOD IV RECP LP



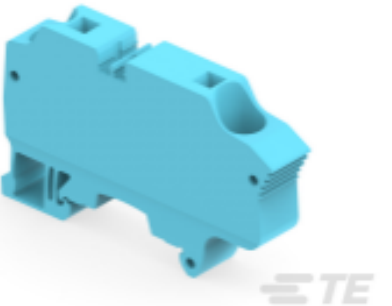
TE Part #1-796638-2  
12POS 5.08MM CE R/A HDR,TRM BK



TE Part #HD36-18-6SN-059  
PLG,6P,AL,N, CBL CLMP BT,DRAIN,4 /16,S,MC



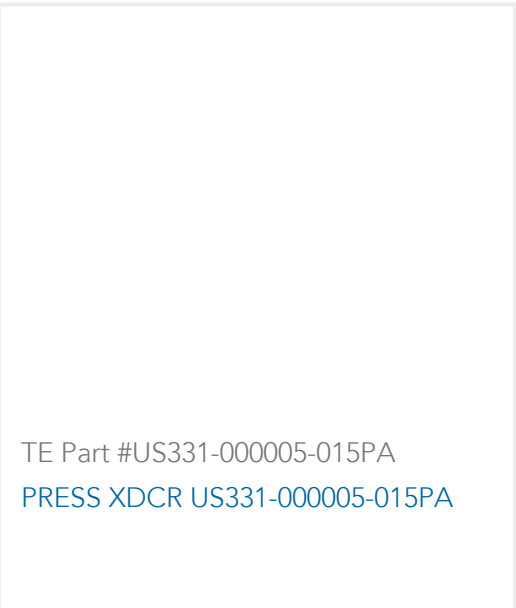
TE Part #5-2176371-2  
RQ 0603 15K8 0.1% 10PPM 5K RL



TE Part #1SNK712020R0000  
ZK16-BL



TE Part #2336313-2  
QSFP 25GIG 32AWG 1 METER



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5-1419102-5\_K.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-1419102-5\_K.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5-1419102-5\_K.3d\_stp.zip

English

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

Datasheets & Catalog Pages

T9A Relay Datasheet

English

Product Specifications

Definitions General Purpose Relays

English

Agency Approvals

Agency Approval Document

English