

R10-E1Y4-V185

✓ ACTIVE

Potter & Brumfield | Potter & Brumfield R10

TE Internal #: 5-1393766-3

General Purpose Signal Relay, DC, Monostable, 4 Form C 4PDT-CO, 3 A Contact Rating, 12 VDC Coil Voltage, Potter & Brumfield R10

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Relays & Contactors > Electromechanical Relays



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

Current Type: **DC**

Coil Magnetic System: **Monostable**

Contact Arrangement: **4 Form C 4PDT-CO**

Contact Current Rating: **3 A**

Features

Product Type Features

Relay & Contactor Type	General Purpose Signal Relay
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Configuration Features

Contact Number of Poles	4
Coil Special Features	Sensitive Version
Contact Arrangement	4 Form C 4PDT-CO

Electrical Characteristics

Contact Limiting Short-Time Current	3 A
Contact Limiting Making Current	3 A
Contact Limiting Continuous Current	3 A
Contact Limiting Breaking Current	3 A
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Insulation Initial Dielectric Between Adjacent Contacts	1000 Vrms
Contact Switching Load (Min)	100mA @ 12V
Coil Resistance	185 Ω
Insulation Initial Resistance	10000 MΩ
Contact Current Rating	3 A
Coil Voltage Rating	12 VDC
Contact Voltage Rating	120 VAC



Coil Power Rating DC	.9 W
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Insulation Initial Dielectric Between Contacts & Coil	1000 Vrms
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Body Features

Product Weight	40 g[1.41 oz]
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Enclosure Type	Dust Protected
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Contact Features

Contact Material	Ag
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Termination Features

Main Termination & Connection Type	Solder/Plug-In Terminals
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Coil Termination & Connection Type	Solder/Plug-In Terminals
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Mechanical Attachment

Product Mounting Feature Type	Mounting Studs
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Product Mount Type	Panel & Socket Mount
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Dimensions

Product Width	18.66 mm[.734 in]
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Product Length	24.13 mm[.95 in]
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Product Height	29.97 mm[1.17 in]
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Usage Conditions

Operating Temperature Range	-55 – 75 °C[-67 – 167 °F]
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Environmental Category of Protection	RTI
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Environmental Ambient Temperature (Max)	75 °C[167 °F]
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Operation/Application

Current Type	DC
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Coil Magnetic System	Monostable
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Packaging Features

Packaging Method	Package
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Other

Coil Power Rating Class	.8 – 1 W
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Contact Current Class	16 A
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Environmental Ambient Temperature Class	70 – 85 °C
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Height Class (Mechanical)	30 – 40 mm
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Length Class (Mechanical)	25 – 30 mm
Width Class (Mechanical)	16 – 20 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	Compliant with Exemptions
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) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (3.7% in 74019106) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable 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>

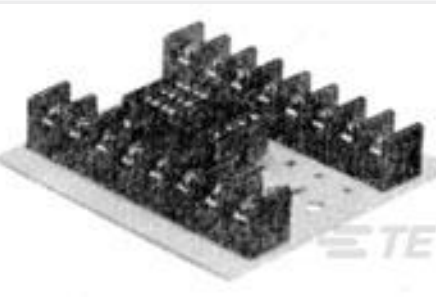
Compatible Parts



TE Part # 1-1393143-2
27E129=SOCKET,R10,16,PC,PHEN



TE Part # 2-1393143-5
27E213=SOCKET,R10,16,PC,PHEN



TE Part # 4-1393143-4
27E461=SOCKET,R10,4POLE,PCB,TRCK-MNT,SCRW



TE Part # 1393143-9
27E126=SOCKET,R10,16,SLG,PHE



TE Part # 2-1393143-2
27E194=SOCKET,R10,16,PC,PHEN



TE Part # 4-1393143-8
27E629=SOCKET,R10,4POLE,PCB,,180



TE Part # 5-1393143-1
27E637=SOCKET,R10,4POLE,PCB,,210

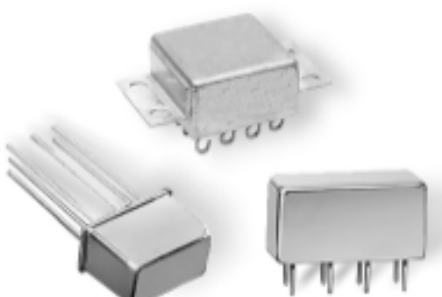


TE Part # 1-1393143-5
27E152=SOCKET,R10,ASSY,W/BRK

Also in the Series | **Potter & Brumfield R10**



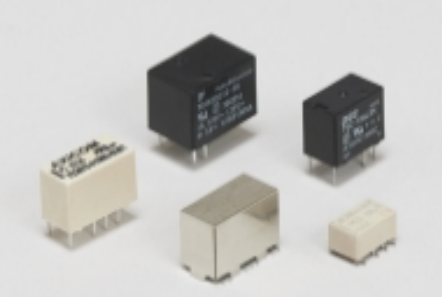
AC Relays(9)



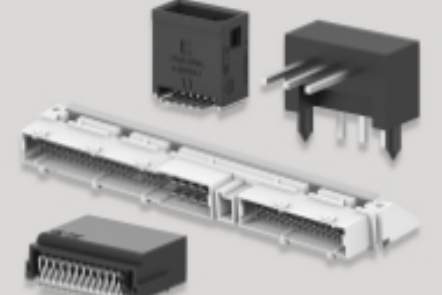
DC Relays(96)



Electromechanical Relays(105)



General Purpose Signal Relays(105)



PCB Headers & Receptacles(1)



Plug-In Relays(77)



Relay Accessories(27)

Customers Also Bought



TE Part #2-1393766-4
R10-E1X6-V90=R10



TE Part #5-1393104-0
KRPA-11DN-12=KRPA



TE Part #1-6609036-4
30VSK6=F7518 S0



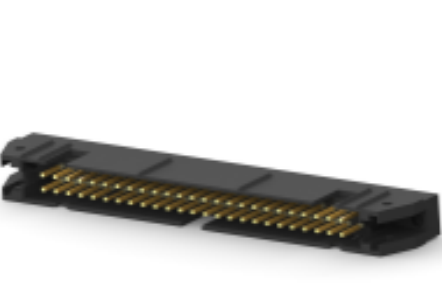
TE Part #1546670-6
6P .437" DR BARRIER,W/BND SCRW



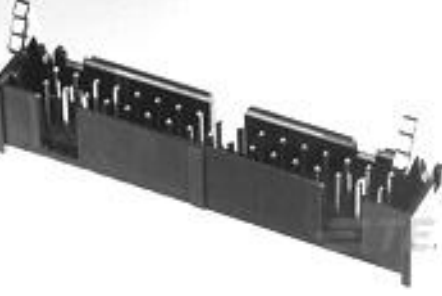
TE Part #5-1393117-6
KUP-11D55-12=KU



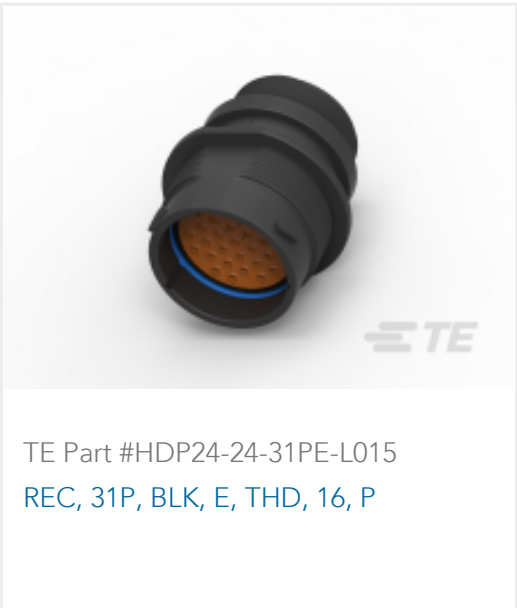
TE Part #7-1393766-4
R10-E1Z2-V700=R10



TE Part #CAT-AM74-UN384H
AMP-LATCH UNIVERSAL HEADERS



TE Part #2-1761606-8
IDC LOW PRO HDR 24P VERT LA



Documents

CAD Files

Customer View Model

[ENG_CVM_CVM_5-1393766-3_A.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_5-1393766-3_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5-1393766-3_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[R10 General Purpose Dry Circuit to 7.5 Amp Multicontact AC or DC Relay](#)

English

Product Specifications

[Definitions General Purpose Relays](#)

English

Agency Approvals

[CSA Certificate](#)

English