



Power Relay F

TE Internal #: 2-1393302-3

Mini Relays, 12VDC Coil Voltage Rating, 30 - 50A Contact Current Class, Contact Arrangement 1 Form C (CO), Printed Circuit Board, Power Relay F

[View on TE.com >](#)

Relays & Contactors > Relays > Automotive Relays > Automotive Plug-In Relays > Mini Relays



Coil Voltage Rating: 12 VDC

Contact Current Class: 30 - 50 A

Contact Arrangement: 1 Form C (CO)

Product Mount Type: Printed Circuit Board

Coil Resistance: 90 Ω

Features

Configuration Features

Contact Arrangement	1 Form C (CO)
---------------------	---------------

Electrical Characteristics

Contact Limiting Short-Time Current	240 A
Contact Limiting Continuous Current	60 A
Current Rating (85°C)	60 A
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	120 A
Insulation Initial Dielectric Between Contacts & Coil	500 Vrms
Contact Limiting Breaking Current	60 A
Contact Voltage Rating	12 VDC
Contact Switching Load (Min)	1000mA @ 5VDC
Coil Power Rating DC	1600 mW
Coil Voltage Rating	12 VDC
Coil Resistance	90 Ω

Body Features

Product Weight	35 g[1.2 oz]
----------------	--------------

Contact Features

Contact Material	Silver Alloy
------------------	--------------



Termination Features

Relay Connection Type	PCB Termination
Terminal Configuration	PCB Tails

Mechanical Attachment

Product Mount Type	Printed Circuit Board
--------------------	-----------------------

Dimensions

Product Width	25.9 mm[1.02 in]
Product Length	25.9 mm[1.02 in]
Product Height	24.9 mm[.98 in]

Usage Conditions

Environmental Ambient Temperature (Max)	125 °C[257 °F]
---	----------------

Operation/Application

Solder Process	Wave Solder
Actuating System	DC
Coil Magnetic System	Monostable

Other

Length Class (Mechanical)	25 - 30 mm
Environmental Ambient Temperature Class	105 - 125 °C
Insulation Initial Dielectric Between Coil & Contact Class	0 - 500 V
Height Class (Mechanical)	20 - 25 mm
Width Class (Mechanical)	25 - 30 mm
Contact Current Class	30 - 50 A

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 2024 (240) Candidate List Declared Against: JAN 2023 (233) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per



homogenous material. Also BFR/CFR/PVC Free

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



TE Part # 1393302-6  
VF415F13/X811



TE Part # 1-1904045-1  
V23333Z0001A007-EV-100

Also in the Series | Power Relay F






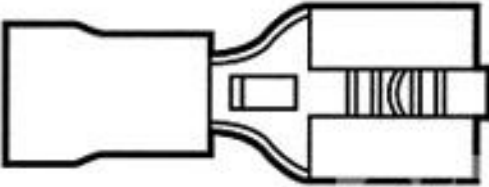





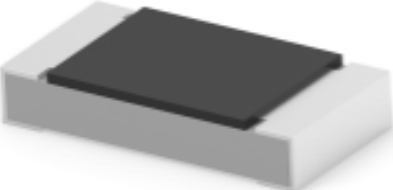
Maxi Relays(14)



Mini Relays(49)

Customers Also Bought



 <div>TE Part # 1461406-4 OJ-SH-112DM,000</div>	 <div>TE Part # 4-2176055-9 RLP73K 2B 1R0 1% 1K RL</div>	 <div>TE Part # 1558667-1 T9GS2L14-5</div>	 <div>TE Part # 42599-2 RECEPT,PIDG FASTON 22-18 250</div>
 <div>TE Part # 926647-3 UNIV.M-N-L.CAP HSG</div>	 <div>TE Part # 1-2176349-3 CRGCQ 2512 100R 1%</div>	 <div>TE Part # 1879444-1 TE 100W 1R0 5% Bracket</div>	 <div>TE Part # 9-1393222-7 V23061B1005A501=MINISTARKSTROM</div>
 <div>TE Part # 2071366-1 EW60-1A3-BL12D04,00000</div>	 <div>TE Part # 1-2176584-0 RLC73PD 2B R75 1% 1K RL</div>		

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2-1393302-3\_O.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-1393302-3\_O.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-1393302-3\_O.3d\_stp.zip

English

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

Datasheets & Catalog Pages

Automotive Relay Application Notes

English

Power Relay F4, Mini ISO, Plug-In

English



Product Specifications

Definitions General Purpose Relays

English