



Power Relay F

TE Internal #: 5-1393302-2

General Purpose Power Relay, DC, Monostable, 1 Form C SPDT-CO, 20 A Contact Rating, 24 VDC Coil Voltage, 24 VDC Contact Voltage, Power Relay F

[View on TE.com >](#)

Relays & Contactors > Electromechanical Relays



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**

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

Contact Switching Load (Min)	1000mA @ 5VDC
Contact Limiting Short-Time Current	240 A
Contact Limiting Making Current	120 A
Coil Resistance	324 Ω
Contact Limiting Continuous Current	60 A
Contact Limiting Breaking Current	20 A
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Current Rating	20 A
Coil Voltage Rating	24 VDC
Contact Voltage Rating	24 VDC
Coil Power Rating DC	1.8 W
Insulation Initial Dielectric Between Contacts & Coil	500 Vrms

Body Features

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



Enclosure Type

Dust Protected

Contact Features

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

Termination Features

Main Termination & Connection Type	Solder Pins
Coil Termination & Connection Type	Solder Pins

Mechanical Attachment

Product Mount Type	Board Mount
--------------------	-------------

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 Category of Protection	RTI
Environmental Ambient Temperature (Max)	125 °C[257 °F]

Operation/Application

Solder Process	Wave Solder Capable
Current Type	DC
Coil Magnetic System	Monostable

Other

Contact Current Class	30 – 50 A
Environmental Ambient Temperature Class	105 – 125 °C
Height Class (Mechanical)	20 – 25 mm
Length Class (Mechanical)	25 – 30 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
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 2025
(247)
Candidate List Declared Against: JAN 2025
(247)
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 # 1-1904045-1
V23333Z0001A007-EV-100

Also in the Series | Power Relay F

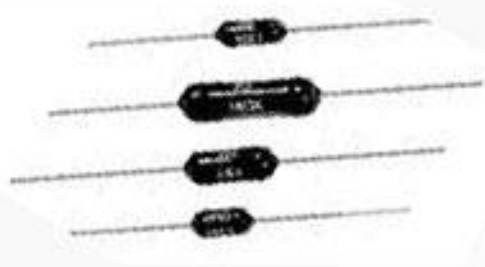
 Automotive Relays(57)	 General Purpose Power Relays(57)	 PCB Relays(7)	 Plug-In Relays(50)
--	--	--	---

Customers Also Bought





TE Part #3-1393779-2
V23101D 106A201



TE Part #1-1879663-2
H8 140R 0.1% 15PPM



TE Part #1-770970-0
08P MINI UMNL R/A HDR ASSY SN



TE Part #1-770969-0
06P MINI UMNL R/A HDR ASSY SN



TE Part #2-1393302-3
V23134A0052G243-EV-CBOX



TE Part #3-1414937-3
V23134J0065X497-EV-CBOX



TE Part #1-776163-1
35POS,PIN DIA 1.3,HDR ASSY,90DEG, COD 1



TE Part #1-770968-0
04P MINI UMNL R/A HDR ASSY SN COD 1



TE Part #5052922017
RNF-100-1/16-6-STK



TE Part #1-1393277-8
V23076A3022C132

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5-1393302-2_S00F.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_5-1393302-2_S00F.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5-1393302-2_S00F.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

Product Specifications



Definitions General Purpose Relays

English