1-1414610-0 ✔ ACTIVE

Power Relay F

TE Internal #: 1-1414610-0

Maxi Relays, 12 VDC Coil Voltage, Rp 470Ω, Printed Circuit Board, Monostable, DC, 90 Ω Coil Resistance, Power Relay F

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Relays, Contactors & Switches > Relays > Automotive Relays > Automotive Plug-In Relays > Maxi Relays

Rated Coil Voltage: **12 VDC**

Maxi Relay Contact Current Class: **>50A**

Coil Suppression: **Rp 470Ω**

Maxi Relay Mounting Type: **Printed Circuit Board**

Maxi Relay Coil Magnetic System: **Monostable, DC**

Features

Product Type Features

Relay Type	Power Relay F7

Electrical Characteristics

Coil Power Rating Class	>1.5W
Current Rating (85°C)	70 A
Contact Limiting Short-Time Current	240 A
Insulation Initial Dielectric Between Contacts and Coil	500 Vrms
Insulation Initial Dielectric Between Coil/Contact Class	0 – 500 V
Coil Power Rating (DC)	1600 mW
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	120 A
Contact Limiting Continuous Current	70 A
Rated Voltage	12 VDC
Contact Limiting Breaking Current	70 A
Contact Switching Load (Min)	1000mA @ 5VDC
Rated Coil Voltage	12 VDC
Coil Suppression	Rp 470Ω
Maxi Relay Coil Magnetic System	Monostable, DC
Maxi Relay Coil Resistance	90 Ω

Body Features

Weight	38 g[1.3 oz]

Contact Features

Terminal Type	PCB-THT
Contact Arrangement	1 Form A (NO)
Contact Base Material	Silver Alloy
Maxi Relay Contact Current Class	>50A

Mechanical Attachment

Maxi Relay Mounting Type	Printed Circuit Board

Dimensions

Width Class (Mechanical)	25 – 30 mm
Length Class (Mechanical)	25 – 30 mm
Height Class (Mechanical)	25 – 30 mm
Width	25.9 mm[1.031 in]
Length	25.9 mm[1.03 in]
Height	24.9 mm[.98 in]

Usage Conditions

Environmental Ambient Temperature (Max)	125 °C[257 °F]
Environmental Ambient Temperature Class	105 – 125°C

Other

Mounting Brackets	Without

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: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

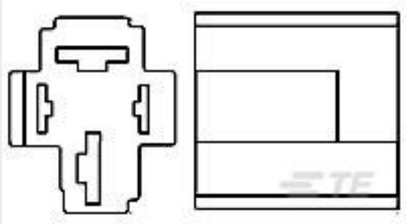
Solder Process Capability

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 # 1393310-4
VCF7-1000=FROM SEC

Also in the Series | Power Relay F

Maxi Relays(13)

Mini Relays(47)

Documents

CAD Files

3D PDF

3D

Customer View Model
ENG_CVM_CVM_1-1414610-0_A.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_1-1414610-0_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1414610-0_A.3d_stp.zip

English

Datasheets & Catalog Pages

Automotive Relay Application Notes

English

Power Relay F7 / VF7, Maxi ISO, Plug-In

English

Product Specifications

Definitions, Handling, Processing, Testing and Use of Relays

English