



Power Relay F

TE Internal #: 1-1414167-0
Power Relay F, Mini Relays, 24 VDC Coil Voltage, 30 – 50 A, 1 Form C (CO), Diode (Cathode 86), Plug-In, 268 Ω Coil Resistance
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Relays, Contactors & Switches > Relays > Automotive Relays > Automotive Plug-In Relays > Mini Relays



Rated Coil Voltage: **24 VDC**
Mini Relay Contact Current Class: **30 – 50 A**
Mini Relay Contact Arrangement: **1 Form C (CO)**
Coil Suppression: **Diode (Cathode 86)**
Mini Relay Mounting Type: **Plug-In**

Features

Product Type Features

Relay Type	Power Relay F4
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Electrical Characteristics

Current Rating (85°C)	20 A
Coil Power Rating Class	>1.5W W
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
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Coil Magnetic System	Monostable, DC
Contact Limiting Making Current	120 A
Coil Power Rating (DC)	2100 mW
Contact Limiting Continuous Current	60 A
Rated Voltage	24 VDC
Contact Limiting Breaking Current	20 A
Contact Switching Load (Min)	1000mA @ 5VDC
Rated Coil Voltage	24 VDC
Coil Suppression	Diode (Cathode 86)
Mini Relay Coil Resistance	268 Ω

Body Features



Weight	35 g[1.2 oz]
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Contact Features

Terminal Type	Plug-In, Quick Connect
Contact Base Material	Silver Alloy
Mini Relay Contact Current Class	30 – 50 A
Mini Relay Contact Arrangement	1 Form C (CO)

Mechanical Attachment

Mini Relay Mounting Type	Plug-In
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Dimensions

Width Class (Mechanical)	25 – 30 mm
Height	24.9 mm[.98 in]
Length	25.9 mm[1.02 in]
Length Class (Mechanical)	25 – 30 mm
Width	25.9 mm[1.02 in]
Height Class (Mechanical)	20 – 25 mm

Usage Conditions

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

Other

Mounting Brackets	Without
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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 2022 (223) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: Not Yet Reviewed
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 # 1-1904045-1
V23333Z0001A007-EV-100

Also in the Series | Power Relay F

Maxi Relays(13)

Mini Relays(47)

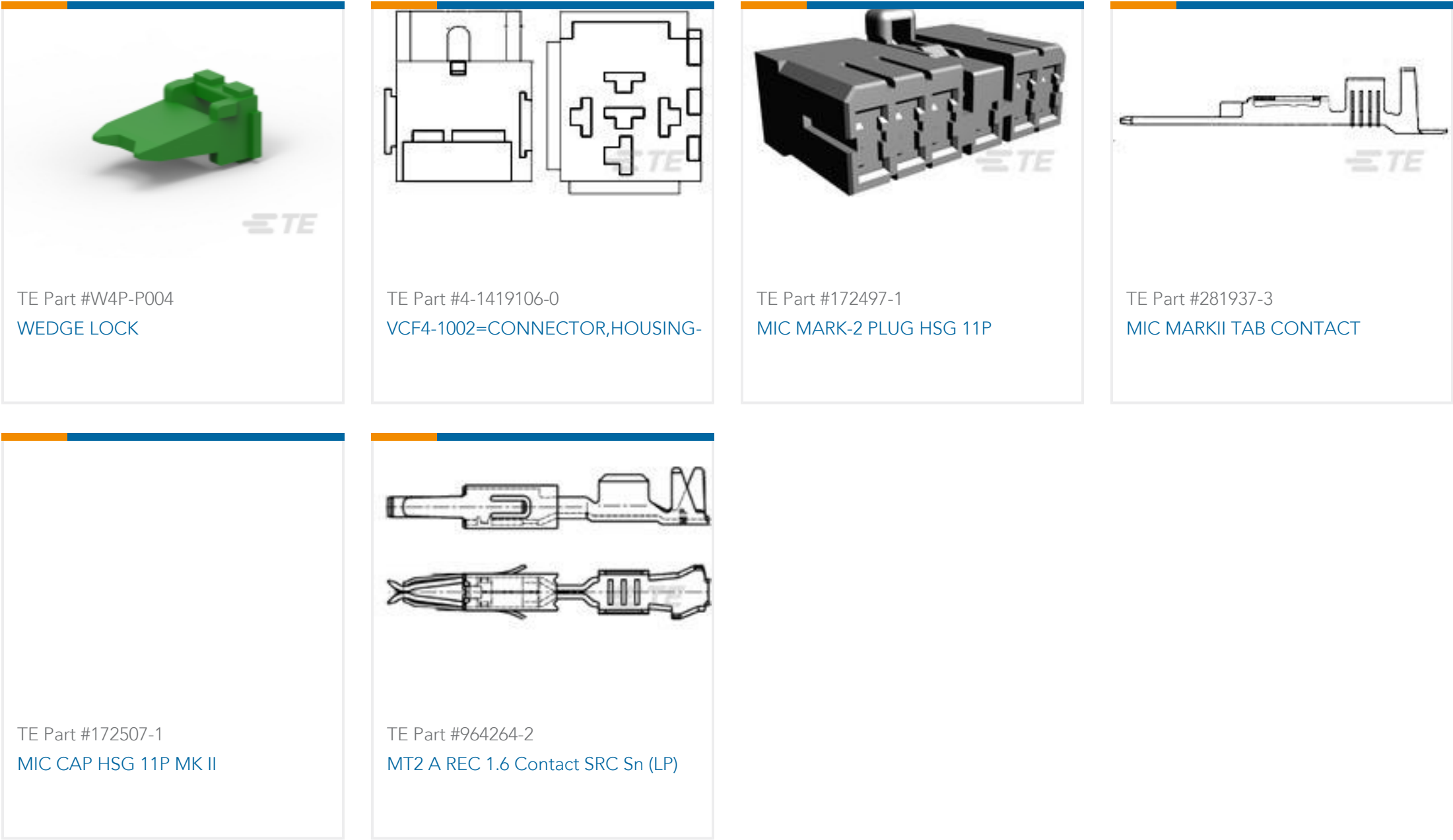
Customers Also Bought

TE Part #2176341-6
CRGCQ 0805 27R 1%

TE Part #828748-3
3P JUN-POW-TIMERGH

TE Part #2-1614782-3
BDS 2 A 100 330R 10%

TE Part #DT04-12PB-E003
REC, 12P, BLK, N, CAP, B



Documents

Product Drawings

CAD Files

- Customer View Model
ENG_CVM_1-1414167-0_S00F.3d_igs.zip
English
- Customer View Model
ENG_CVM_1-1414167-0_S00F.3d_stp.zip
English
- Customer View Model
ENG_CVM_1-1414167-0_S00F.2d_dxf.zip
English
- 3D PDF
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 / VF4, Mini ISO, Plug-In
English

Product Specifications

- Definitions, Handling, Processing, Testing and Use of Relays
English