

1-1414552-0 ✓ ACTIVE

### Power Relay F A

TE Internal #: 1-1414552-0

Mini Relays, 12VDC Coil Voltage Rating, 30 - 50A Contact Current Class, Contact Arrangement 1 Form C (CO), Rp 680Ω, Socket, Power Relay F A

[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)**

Coil Special Features: **Rp 680Ω**

Product Mount Type: **Socket**

## Features

### Configuration Features

Contact Arrangement	1 Form C (CO)
Coil Special Features	Rp 680Ω

### 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	1300 mW
Coil Voltage Rating	12 VDC
Coil Resistance	114 Ω

### Body Features

Product Weight	60 g[2.1 oz]
----------------	--------------

### Contact Features

## Contact Material

Silver Alloy

## Termination Features

## Relay Connection Type

Plug-In

## Terminal Configuration

Quick Connect Terminals

## Mechanical Attachment

## Product Mounting Feature Type

Mounting Brackets

## Product Mount Type

Socket

## Dimensions

## Product Width

35.2 mm[1.386 in]

## Product Length

32.41 mm[1.276 in]

## Product Height

54.2 mm[2.133 in]

## Usage Conditions

## Environmental Ambient Temperature (Max)

125 °C[257 °F]

## Operation/Application

## Actuating System

DC

## Coil Magnetic System

Monostable

## Other

## Length Class (Mechanical)

30 - 35 mm

## Environmental Ambient Temperature Class

105 - 125 °C

## Insulation Initial Dielectric Between Coil &amp; Contact Class

0 - 500 V

## Height Class (Mechanical)

50 mm

## Width Class (Mechanical)

30 - 40 mm

## Contact Current Class

30 - 50 A

## Product Compliance

For compliance documentation, visit the product page on TE.com&gt;

## 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 2024 (240)

Does not contain REACH SVHC

Halogen Content

Low Halogen - Br, Cl, F, I &lt; 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 # 1-1414121-0  
[V23136B1001X051-EV-CBOX](#)

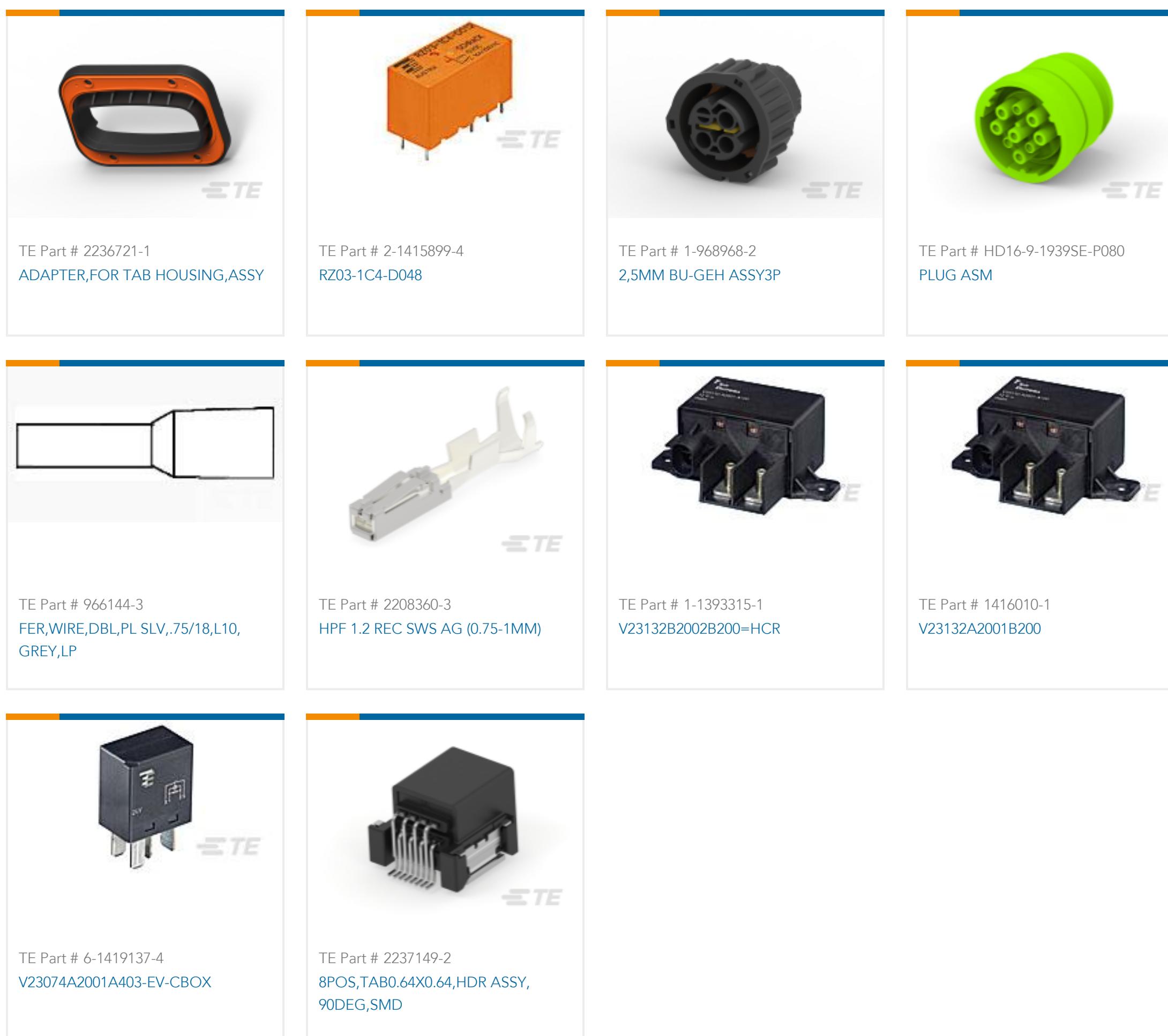
Also in the Series | [Power Relay F A](#)

Maxi Relays(2)



Mini Relays(13)

## Customers Also Bought



## Documents

### CAD Files

[3D PDF](#)

[3D](#)

### Customer View Model

[ENG\\_CVM\\_CVM\\_1-1414552-0\\_O.2d\\_dxf.zip](#)

English

### Customer View Model

[ENG\\_CVM\\_CVM\\_1-1414552-0\\_O.3d\\_igs.zip](#)

English

### Customer View Model

[ENG\\_CVM\\_CVM\\_1-1414552-0\\_O.3d\\_stp.zip](#)

English

### Datasheets & Catalog Pages

#### Automotive Relay Application Notes

English

#### Shrouded Power Relay F4 A, Mini ISO, Plug-In

English

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

---

### Product Specifications

#### Definitions General Purpose Relays

English