



Relays, Contactors & Switches > Relays > Signal Relays > Signal Relays: SMT, PCB mount, 2 amp



Contact Voltage Rating: 250 VAC

Signal Relay Coil Power Rating (DC): 140 mW

Isolation (HF Parameter): -40dB @ 3GHz, -72dB @ 900MHz, -80dB @ 100MHz

Insertion Loss (HF Parameter): -.03dB @ 100MHz, -.12dB @ 900MHz, -.4dB @ 3GHz

[All Signal Relays: SMT, PCB mount, 2 amp \(28\)](#)

Features

Product Type Features

|              |           |
|--------------|-----------|
| Relay Type   | HF3 Relay |
| Product Type | Relay     |

Electrical Characteristics

|                                                          |                              |
|----------------------------------------------------------|------------------------------|
| Coil Power Rating Class                                  | 50 – 300 mW                  |
| Actuating System                                         | DC                           |
| Insulation Initial Dielectric Between Open Contacts      | 600 Vrms                     |
| Contact Limiting Short-Time Current                      | 2 A                          |
| Insulation Initial Dielectric Between Contacts and Coil  | 1000 Vrms                    |
| Insulation Initial Dielectric Between Coil/Contact Class | 500 – 1000 V                 |
| Voltage Standing Wave Ration (HF Parameter)              | 1.07 @ 100MHz, 1.45 @ 900MHz |
| Insulation Initial Resistance                            | 1000000 MΩ                   |
| Contact Limiting Making Current                          | 2 A                          |
| Coil Resistance                                          | 178 Ω                        |



|                                              |                |
|----------------------------------------------|----------------|
| Contact Limiting Continuous Current          | 2 A            |
| Coil Type                                    | Monostable     |
| Contact Limiting Breaking Current            | 2 A            |
| Contact Voltage Rating                       | 250 VAC        |
| Signal Relay Coil Power Rating (DC)          | 140 mW         |
| Signal Relay Coil Voltage Rating             | 5 VAC          |
| Signal Relay Contact Switching Voltage (Max) | 250 VAC        |
| Signal Relay Coil Magnetic System            | Monostable, DC |

Signal Characteristics

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Isolation (HF Parameter)      | -40dB @ 3GHz, -72dB @ 900MHz, -80dB @ 100MHz   |
| Insertion Loss (HF Parameter) | -.03dB @ 100MHz, -.12dB @ 900MHz, -.4dB @ 3GHz |

Body Features

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| Insulation Special Features | 1500V Initial Surge Withstand Voltage between Contacts & Coil |
|                             | 2.5 oz                                                        |

Contact Features

|                                     |               |
|-------------------------------------|---------------|
| Contact Plating Material            | Gold          |
| Contact Current Class               | 0 – 2 A       |
| Signal Relay Terminal Type          | PCB-SMT       |
| Signal Relay Contact Current Rating | 2 A           |
| Signal Relay Contact Arrangement    | 1 Form C (CO) |
| Contact Material                    | Nickel        |
| Contact Number of Poles             | 1             |

Mechanical Attachment

|                            |                       |
|----------------------------|-----------------------|
| Signal Relay Mounting Type | Printed Circuit Board |
|----------------------------|-----------------------|

Dimensions

|                           |                 |
|---------------------------|-----------------|
| Width Class (Mechanical)  | 6 – 8 mm        |
| Width                     | 7.2 mm[.283 in] |
| Height                    | 10 mm[.394 in]  |
| Length Class (Mechanical) | 14 – 16 mm      |
|                           | 14.6 in         |



|                                      |                                            |
|--------------------------------------|--------------------------------------------|
| Height Class (Mechanical)            | 9 – 10 mm                                  |
| Dimensions (L x W x H) (Approximate) | 14.6 x 7.2 x 9.1 mm[.574 x .283 x .358 in] |

Usage Conditions

|                                         |              |
|-----------------------------------------|--------------|
| Environmental Ambient Temperature (Max) | 85 °C[85 °F] |
| Environmental Ambient Temperature Class | 70 – 85°C    |

Operation/Application

|                  |          |
|------------------|----------|
| Performance Type | Standard |
|------------------|----------|

Packaging Features

|                  |                    |
|------------------|--------------------|
| Packaging Method | Box & Carton, Reel |
|------------------|--------------------|

Other

|                     |           |
|---------------------|-----------|
| Additional Features | Gull Wing |
|---------------------|-----------|

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 2021 (211)<br>Candidate List Declared Against: JAN 2021 (211)<br>Does not contain REACH SVHC |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.                                                                        |
| Solder Process Capability                     | Reflow solder capable to 245°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 # CAT-AX41-H519A  
AXICOM HF RELAY 3GHZ SHIELDED

Also in the Series | Axicom HF3

Signal Relays(38)

Switch Boots & Accessories(1)

Customers Also Bought

TE Part #1462051-1  
Signal Relays: SMT, PCB mount, 2 amp

TE Part #1-2176231-3  
SMD Power Resistor: 3 Watt, 1% Tol

TE Part #1-1879215-0  
CPF 0402 4K99 0.1% 25PPM 1K RL

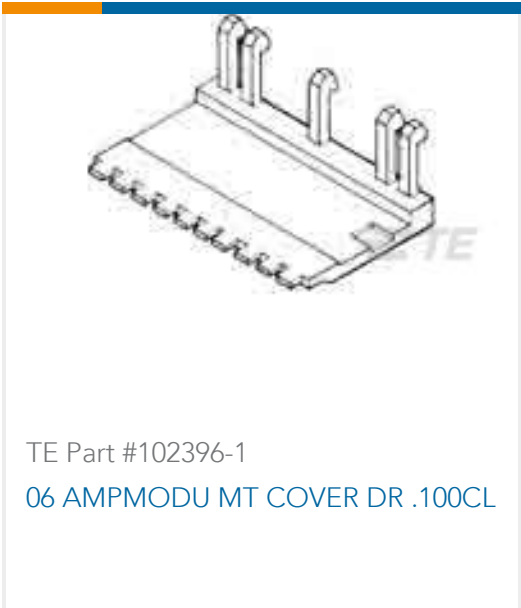
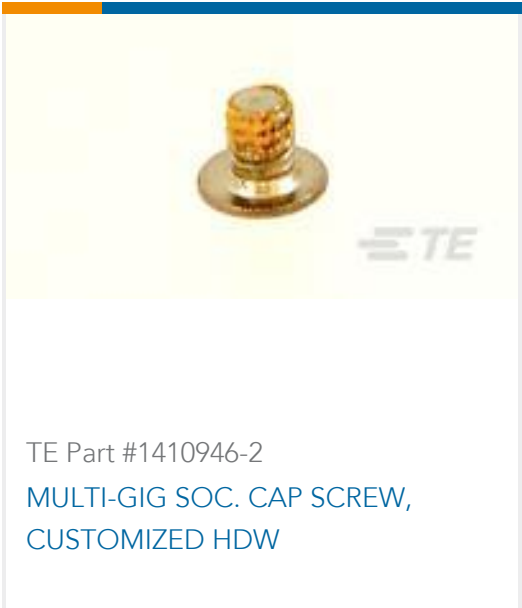
TE Part #102541-6  
16 AMPMODU MT COVER DR .100CL

TE Part #1-1879023-1  
3650 1008 47nH 5% 2K RL

TE Part #1-1624320-1  
SP3 2R0 1% LOOSE

TE Part #1-1624320-2  
SP3 7R0 1% LOOSE

TE Part #9-1879134-5  
RN 0603 93K1 0.1% 10PPM 1K RL



Documents

Product Drawings

HF303=75OHM140MW 5V MONO

English

HF303=75OHM140MW 5V MONO

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1462050-2\_C\_c-1462050-2-c.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1462050-2\_C\_c-1462050-2-c.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1462050-2\_C\_c-1462050-2-c.3d\_stp.zip

English

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

Datasheets & Catalog Pages

Axicom Signal and High Frequency Relays (RF Switches) APPLICATION NOTE #2

English

Industrial Relays Quick Reference Guide

English

Industrial Relays Quick Reference Guide

Japanese

Industrial Relays Quick Reference Guide

Product Specifications

Product Specification

English

Definitions, Handling, Processing, Testing and Use of Relays

English

1462050-2

Axicom HF3, Signal Relays, 220VDC Contact Voltage Rating, 250VAC Contact Voltage Rating, 140mW Signal Relay Coil Power Rating (DC)

