



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	64 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	3 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) Candidate List Declared Against: JAN 2021 (211) 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-H519
Signal Relays: SMT, PCB mount, 2 amp

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 #1367645-4
SFP Connectors

TE Part #1-2176070-0
SMD Power Resistor: 2 Watt, 3521 Series

TE Part #7-5382487-2
SIMM II,.250"H,.050CL,72P,30AU

TE Part #1551920-2
zQSFP+ connector assembly

TE Part #1-2301994-2
RJ45 JACK INT.MAG. 1GB LED 1X1

TE Part #1-178294-5
DYNAMIC 3100 HDR ASSY

TE Part #1410187-1
MULTIGIG RT T2 7RW DC DF CT

Documents

- Product Drawings
- HF301=75OHM140MW 3V MONO
- English
- HF301=75OHM140MW 3V MONO
- English



CAD Files

Customer View Model

ENG_CVM_1462050-2_A6.3d_igs.zip

English

Customer View Model

ENG_CVM_1462050-2_A6.3d_stp.zip

English

Customer View Model

ENG_CVM_1462050-2_A6.2d_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

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