



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



Contact Voltage Rating: 220 VDC
Signal Relay Coil Power Rating (DC): 140 mW
Isolation (HF Parameter): -45dB @ 3GHz, -72dB @ 900MHz, -80dB @ 100MHz
Insertion Loss (HF Parameter): -.03dB @ 100MHz, -.12dB @ 900MHz, -.35dB @ 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	4114 Ω



Contact Limiting Continuous Current	2 A
Coil Type	Monostable
Contact Limiting Breaking Current	2 A
Contact Voltage Rating	220 VDC
Signal Relay Coil Power Rating (DC)	140 mW
Signal Relay Coil Voltage Rating	24 VAC
Signal Relay Contact Switching Voltage (Max)	220 VDC
Signal Relay Coil Magnetic System	Monostable, DC

Signal Characteristics

Isolation (HF Parameter)	-45dB @ 3GHz, -72dB @ 900MHz, -80dB @ 100MHz
Insertion Loss (HF Parameter)	-.03dB @ 100MHz, -.12dB @ 900MHz, -.35dB @ 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
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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
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Packaging Features

Packaging Method	Box & Carton, Reel
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Other

Additional Features	Gull Wing
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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 2022 (223) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: Not Yet Reviewed
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 # 2-1462051-2
HF3 57S=50OHM140MW 24V MONO

TE Part # 1462050-5
HF307=75OHM140MW24V MONO

Also in the Series | Axicom HF3

Signal Relays(38)

Switch Seals & Accessories(1)

Customers Also Bought

TE Part #5749621-9
100 50S CABLE PLUG CONN/COV KI

TE Part #1721081-2
PCJ-105D3M,301

TE Part #749877-9
100 50SR PANEL MOUNT RCPT

TE Part #963709-2
SPT REC 6.3 Contact SRC Sn

TE Part #1-1879074-7
THS15 12R 5%

TE Part #2176155-7
TLM 0805 0.25W R033 5% 100PPM 5K RL

TE Part #1452408-2
SECONDARY LOCK FOR 58 POS CONN

TE Part #1825138-5
A201L1D9V30Q04



Documents

Product Drawings

HF357=50OHM140MW24V MONO

English

HF357=50OHM140MW24V MONO

English

CAD Files

Customer View Model

ENG_CVM_1462051-2_A5.3d_igs.zip

English

Customer View Model

ENG_CVM_1462051-2_A5.3d_stp.zip

English

Customer View Model

ENG_CVM_1462051-2_A5.2d_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

Definitions, Handling, Processing, Testing and Use of Relays

English

Product Specification

English

1462051-5

Axicom HF3, Signal Relays, 220 VDC Contact Voltage, 250 VAC Contact Voltage, 140 mW Coil Power (DC), Printed Circuit Board, PCB-SMT

