

Axicom | Axicom P2 Signal Relay

TE Internal #: 1422006-1

General Purpose Signal Relay, DC, Polarized, Monostable, 2 Form C DPDT-CO, 2 A Contact Rating, 5 VDC Coil Voltage, Axicom P2

Signal Relay
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Relays & Contactors > Electromechanical Relays > Signal Relay with Dielectric Strength











Relay & Contactor Type: General Purpose Signal Relay

Current Type: DC

Coil Magnetic System: Polarized, Monostable
Contact Arrangement: 2 Form C DPDT-CO

Contact Current Rating: 2A

All Signal Relay with Dielectric Strength (3)

Features

Product Type Features

Relay & Contactor Type	General Purpose Signal Relay
Configuration Features	
Contact Special Features	Bifurcated/Twin Contacts
Contact Number of Poles	2
Coil Special Features	Overmolded Coil
Contact Arrangement	2 Form C DPDT-CO
Electrical Characteristics	
Contact Limiting Short-Time Current	2 A
Contact Limiting Making Current	2 A
Contact Limiting Continuous Current	2 A
Contact Limiting Breaking Current	2 A
Insulation Initial Dielectric Between Open Contacts	1500 Vrms



Contact Switching Voltage (Max) Contact Switching Lead (Min) Voltage Standing Wave Ration (LIF Parameter) L046 @ 100MLIZ, 1.4dB @ 900MLIZ Coil Resistance 125 0 Insulation Indial Resistance 1000 MQ Contact Current Rating 2 A Coil Voltage Rating 5 VDC Contact Voltage Rating Coil Power Rating DC Linsulation Indial Dielectric Between Contacts & Coil Linsulation Indial Dielectric Between Contacts & Coil Linsulation (HF Parameter) Linsulation (Linguist Rating) Contact Parameter) Linsulation Resistant Automatic Solder Capable & Woahable Contact Material Contact Plating Materia Contact Plating Materia Contact Material Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Beard Mount Dimensions Linsulation Clearance Between Contact & Coil Linsulation Creepage Between Contact & Coil Linsulation Creepage Between Contact & Coil Linguist Length Product Length Line Height Product Length Product Holght Product Length Product	Insulation Initial Dielectric Between Adjacent Contacts	1000 Vrms
Voltage Standing Wave Ration (HF Parameter) Coil Besistance Insulation Initial Resistance Insulation Initial Resistance Insulation Initial Resistance Contact Current Rating 2 A Coil Voltage Rating S VDC Contact Voltage Rating 220 VDC Coll Bewer Rating DC Insulation Initial Dielectric Between Contacts & Coil Signal Characteristics Isolation (HF Parameter) Poduct Weight 2 8 g(0988 oz) Flux Resistant Automatic Solder Capable & Washable Contact Plating Material Contact Plating Material Contact Material Contact Material AgNi Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearence Between Contact & Coil 1.3 mm(D51 in) Insulation Creepage Between Contact & Coil Product Weight 7.2 mm(D58 in) Product Length Product Length 1.4 mm(574 in)	Contact Switching Voltage (Max)	250 VAC
Coil Resistance 125 O Insulation Initial Resistance 1000 MQ Contact Current Rating 2A Coil Voltage Rating 5 VDC Contact Voltage Rating 220 VDC Coil Power Rating DC 2W Insulation Initial Dielectric Between Contacts & Coil 1500 Vrms Signal Characteristics Isolation (HF Parameter) 20,7dB & 900MHz, 39dB & 100MHz Insertion Loss (HF Parameter) -0.2dB & 100MHz, -27dB & 900MHz Body Features Product Weight 28 g[.0988 az] Enclosure Type Fruit Resistant Automatic Solder Capable & Washable Contact Plating Material Gold Contact Material Gold Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1,3 mm [.051 in] Insulation Creepage Between Contact & Coil 2,5 mm [.078 in] Product Width 7,2 mm [.283 in] Product Length 14.6 mm [.574 in]	Contact Switching Load (Min)	10mA @ .2V
Insulation Initial Resistance Contact Current Rating Coil Voltage Rating S VDC Contact Voltage Rating 220 VDC Call Power Rating DC Linsulation Initial Dielectric Between Contacts & Coil Insulation Initial Dielectric Between Contacts & Coil Insulation (HF Parameter) Insertion Loss (HF Parameter) Product Weight 2.8 g(.0988 e.g) Enclosure Type Product Weight Contact Plating Material Contact Plating Material Contact Material Contact Material Contact Material Main Termination & Connection Type PCB SMT Ceil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil Product Weight 7,2 mml, 298 in] Product Length Product Length 14.6 mm(.574 in]	Voltage Standing Wave Ration (HF Parameter)	1.04db @ 100MHz, 1.4dB @ 900MHz
Contact Current Rating 2 A Coil Voltage Rating 5 VDC Contact Voltage Rating 220 VDC Coil Power Rating DC .2 W Insulation Initial Dielectric Between Contacts & Coil 1500 Vrms Signal Characteristics	Coil Resistance	125 Ω
Coil Voltage Rating 5 VDC Contact Voltage Rating 220 VDC Coil Power Rating DC 2W Insulation Initial Dielectric Between Contacts & Coil 1500 Vrms Signal Characteristics Isolation (HF Parameter) -20.7dB @ 900MHz, -39dB @ 100MHz Insertion Loss (HF Parameter) -0.02dB @ 100MHz, -27dB @ 900MHz Body Features Product Weight 2.8 g(10988 oz) Enclosure Type Flux Resistant Automatic Solder Capable & Washable Contact Plating Material Gold Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Roard Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm (.051 in) Insulation Creepage Between Contact & Coil 2.5 mm (.098 in) Product Width 7.2 mm (.283 in) Product Width 7.2 mm (.283 in) Product Length 14.6 mm (.574 in)	Insulation Initial Resistance	1000 ΜΩ
Contact Voltage Rating 220 VDC Coil Power Rating DC 2W Insulation Initial Dielectric Between Contacts & Coil 1500 Vrms Signal Characteristics Isolation (HF Parameter) -20.7dB @ 900MHz, -39dB @ 100MHz Insertion Loss (HF Parameter) -02dB @ 100MHz, -27dB @ 900MHz Body Features Product Weight 2.8 g [.0988 oz] Enclosure Type Flux Resistant Automatic Solder Capable & Washable Contact Features Contact Plating Material Gold Contact Material Gold Contact Material AgNi Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Contact Current Rating	2 A
Coil Power Rating DC Insulation Initial Dielectric Between Contacts & Coil Insulation Initial Dielectric Between Contacts & Coil Isolation (HE Parameter) Insertion Loss (HE Parameter) In	Coil Voltage Rating	5 VDC
Insulation Initial Dielectric Between Contacts & Coil Signal Characteristics Isolation (HF Parameter) Insertion Loss (HF Par	Contact Voltage Rating	220 VDC
Signal Characteristics Isolation (HF Parameter) Insertion Loss (HF Parameter) Product Weight Enclosure Type Product Features Contact Features Contact Plating Material Contact Material Contact Material Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil Product Width Product Length Poduct Length 20.7dB @ 900MHz, -39dB @ 100MHz 0.2dB @ 100MHz, -27dB @ 900MHz 0.2dB @ 100MHz, -27dB @ 900MHz 0.2dB @ 100MHz, -27dB @ 900MHz 0.2dB @ 100MHz, -39dB @ 100MHz 0.2dB @ 900MHz 0.2dB @ 100MHz, -39dB @ 100MHz 0.2dB @ 100MHz, -27dB @ 900MHz 0.2dB @ 100MHz, -27dB @ 90	Coil Power Rating DC	.2 W
Isolation (HF Parameter) Insertion Loss (HF Parameter) -0.2dB @ 100MHz, .27dB @ 900MHz Body Features Product Weight 2.8 g[.0988 oz] Enclosure Type Flux Resistant Automatic Solder Capable & Washable Contact Features Contact Plating Material Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil Product Width 7.2 mm[.283 in] Product Length 11.6 mm[.574 in]	Insulation Initial Dielectric Between Contacts & Coil	1500 Vrms
Insertion Loss (HF Parameter) Body Features Product Weight Enclosure Type Plux Resistant Automatic Solder Capable & Washable Contact Features Contact Plating Material Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil Product Width 7.2 mm .283 in Product Length 14.6 mm .574 in	Signal Characteristics	
Product Weight 2.8 gf.0988 oz] Enclosure Type Flux Resistant Automatic Solder Capable & Washable Contact Features Contact Plating Material Gold Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Isolation (HF Parameter)	-20.7dB @ 900MHz, -39dB @ 100MHz
Product Weight 2.8 g[.0988 oz] Enclosure Type Flux Resistant Automatic Solder Capable & Washable Contact Features Contact Plating Material Gold Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Insertion Loss (HF Parameter)	02dB @ 100MHz,27dB @ 900MHz
Enclosure Type Flux Resistant Automatic Solder Capable & Washable Contact Features Contact Plating Material Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil Insulation Creepage Between Contact & Coil Product Width 7.2 mm[.283 in] Product Length	Body Features	
Contact Features Contact Plating Material Gold Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Product Weight	2.8 g[.0988 oz]
Contact Plating Material Gold Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Enclosure Type	•
Contact Material AgNi Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Contact Features	
Termination Features Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Contact Plating Material	Gold
Main Termination & Connection Type PCB SMT Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]		
Coil Termination & Connection Type PCB SMT Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Contact Material	AgNi
Mechanical Attachment Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]		AgNi
Product Mount Type Board Mount Dimensions Insulation Clearance Between Contact & Coil Insulation Creepage Between Contact & Coil Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Termination Features	
Dimensions Insulation Clearance Between Contact & Coil 1.3 mm[.051 in] Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Termination Features Main Termination & Connection Type	PCB SMT
Insulation Clearance Between Contact & Coil Insulation Creepage Between Contact & Coil Product Width 7.2 mm[.283 in] Product Length 1.3 mm[.051 in] 1.4.6 mm[.574 in]	Termination Features Main Termination & Connection Type Coil Termination & Connection Type	PCB SMT
Insulation Creepage Between Contact & Coil 2.5 mm[.098 in] Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Termination Features Main Termination & Connection Type Coil Termination & Connection Type Mechanical Attachment	PCB SMT PCB SMT
Product Width 7.2 mm[.283 in] Product Length 14.6 mm[.574 in]	Termination Features Main Termination & Connection Type Coil Termination & Connection Type Mechanical Attachment Product Mount Type	PCB SMT PCB SMT
Product Length 14.6 mm[.574 in]	Termination Features Main Termination & Connection Type Coil Termination & Connection Type Mechanical Attachment Product Mount Type Dimensions	PCB SMT PCB SMT Board Mount
	Termination Features Main Termination & Connection Type Coil Termination & Connection Type Mechanical Attachment Product Mount Type Dimensions Insulation Clearance Between Contact & Coil	PCB SMT PCB SMT Board Mount 1.3 mm[.051 in]
Product Height 9.9 mm[.389 in]	Termination Features Main Termination & Connection Type Coil Termination & Connection Type Mechanical Attachment Product Mount Type Dimensions Insulation Clearance Between Contact & Coil Insulation Creepage Between Contact & Coil	PCB SMT PCB SMT Board Mount 1.3 mm[.051 in] 2.5 mm[.098 in]
	Termination Features Main Termination & Connection Type Coil Termination & Connection Type Mechanical Attachment Product Mount Type Dimensions Insulation Clearance Between Contact & Coil Insulation Creepage Between Contact & Coil Product Width	PCB SMT PCB SMT Board Mount 1.3 mm[.051 in] 2.5 mm[.098 in] 7.2 mm[.283 in]



Usage Conditions

Operating Temperature Range	-40 - 85 °C[-40 - 185 °F]
Environmental Category of Protection	RTIII
Environmental Ambient Temperature (Max)	85 °C[185 °F]

Operation/Application

Solder Process	Reflow Solder Capable
Performance Type	High Dielectric
Current Type	DC
Coil Magnetic System	Polarized, Monostable

Packaging Features

Packaging Method	Reel
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Other

Coil Power Rating Class	.15 – .2 W
Contact Current Class	0 – 2 A
Environmental Ambient Temperature Class	70 – 85 °C
Height Class (Mechanical)	9 – 10 mm
Length Class (Mechanical)	14 – 16 mm
Width Class (Mechanical)	6 – 8 mm

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 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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



Also in the Series | Axicom P2 Signal Relay



Customers Also Bought













TE Part #154763-E SMCB 12 M AB VV 7-03 CL * 0007 137 E004











Documents

Product Drawings

V23079G2001X071

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1422006-1_D1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1422006-1_D1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1422006-1_D1.3d_stp.zip

English

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Datasheets & Catalog Pages

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

English

Transportation, Storage, Handling, Assembly and Testing of AXICOM SMT Relays

English

P2 Relay Datasheet

English

Product Specifications

General Purpose Signal Relay, DC, Polarized, Monostable, 2 Form C DPDT-CO, 2 A Contact Rating, 5 VDC Coil Voltage, Axicom P2 Signal Relay



Definitions General Purpose Relays

English

Agency Approvals

UL

English