

Small Signal Relay, Axicom P2 Standard

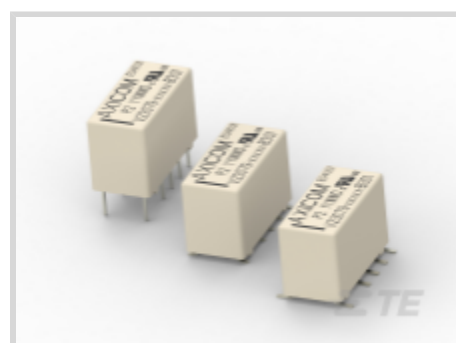


[Axicom | Axicom P2 Signal Relay](#)

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Relays, Contactors & Switches > Relays > Signal Relays

Small signal relay (slim line 15x7.5mm), switching current 2A, 2 form C bifurcated contacts, High sensitivity for low power consumption 140mW/ 70mW



Contact Voltage Rating: **220 VDC**

Signal Relay Contact Switching Voltage (Max): **220 VDC**

Contact Number of Poles: **2**

Features

Product Type Features

Relay Type	P2 Relay V23079
Relay Style	P2 V23079 Relay
Product Type	Relay

Electrical Characteristics

Coil Power Rating Class	100 - 150 mW
Actuating System	DC
Insulation Initial Dielectric Between Open Contacts (Vrms)	1000
Contact Limiting Short-Time Current (A)	2
Insulation Initial Dielectric Between Contacts and Coil (Vrms)	1500
Insulation Creepage Class (mm)	1.5 - 3
Insulation Initial Dielectric Between Coil/Contact Class	1000 V - 1500 VA
Voltage Standing Wave Ration (HF Parameter)	1.04 @ 100MHz, 1.4dB @ 900MHz
Insulation Initial Dielectric Between Adjacent Contacts (Vrms)	1000
Power Consumption (mW)	140, 200, 400, 70
Insulation Initial Resistance (MΩ)	1000, 1000000
Contact Limiting Making Current (A)	2
Coil Resistance (Ω)	1029, 114, 1157, 128, 145, 178, 2057, 257, 28, 289, 357, 41, 4114, 514, 578, 64, 8228
Contact Limiting Continuous Current (A)	2

Insulation Creepage Between Contact and Coil (mm)	2.5
Insulation Creepage Between Contact and Coil (in)	.098
Coil Type	Bistable, Bistable, 1 Coil, Bistable, 2 Coils, Monostable
Contact Limiting Breaking Current (A)	2
Contact Switching Load (Min)	10mA @ .2V
Coil Special Features	Overmolded Coil
Contact Voltage Rating (VAC)	250
Contact Voltage Rating (VDC)	220
Signal Relay Coil Power Rating (DC) (mW)	70, 140, 150, 200, 300, 400, 446, 450, 500, 602, 647, 655, 682, 692, 720, 727, 748, 766, 807, 845, 853, 893, 914, 975, 1650
Signal Relay Coil Voltage Rating (VDC)	2, 2.4, 3, 4, 4.5, 5, 6, 9, 12, 24
Signal Relay Coil Voltage Rating (VAC)	5, 6, 12, 24, 48, 60, 110, 220
Signal Relay Contact Switching Voltage (Max) (VAC)	250
Signal Relay Contact Switching Voltage (Max) (VDC)	220
Signal Relay Coil Magnetic System	Bistable, 1 Coil, Bistable, 1 Coil, Polarized, Bistable, 2 Coils, Polarized, Monostable, DC, Polarized

Signal Characteristics

Isolation (HF Parameter)	-13.7dB @ 900MHz, -14.2dB @ 900MHz, -20.7dB @ 900MHz, -30.6dB @ 100MHz, -31.8dB @ 100MHz, -39dB @ 100MHz
Insertion Loss (HF Parameter)	-.02dB @ 100MHz, -.27dB @ 900MHz, -.5dB @ 900MHz, -.97dB @ 900MHz

Body Features

Insulation Special Features	2500V Initial Surge Withstand Voltage between Contacts & Coil
Weight (g)	2.8
Weight (oz)	.0988

Contact Features

Contact Plating Material	Gold
Contact Current Class	0 - 2 A
Contact Special Features	Bifurcated/Twin Contacts
Signal Relay Terminal Type	PCB-SMT, PCB-THT, Plug-In, Solder
Signal Relay Contact Current Rating (A)	.2, .4, .5, 1, 2, 3, 5

Signal Relay Contact Arrangement	2 Form A (NO), 2 Form C (CO)
Contact Material	AgNi+Au, Gold F, Nickel, Nickel-Palladium, Nickel-Titanium, Ruthenium
Contact Number of Poles	2

Termination Features

Termination Type	Surface Mount, Through Hole
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Mechanical Attachment

Signal Relay Mounting Type	PCB, PCB-THT, Printed Circuit Board, Screw Mount, Socket
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Dimensions

Width Class (Mechanical)	6 - 8 mm
Width (mm)	7.2
Width (in)	.283
Height (mm)	10.4, 9.5, 9.8, 9.9
Height (in)	.374, .386, .39, .409
Length Class (Mechanical)	14 - 16 mm
Insulation Clearance Between Contact and Coil (mm)	1.3
Insulation Clearance Between Contact and Coil (in)	.051
Height Class (Mechanical)	10 - 11 mm, 9 - 10 mm
Length (mm)	14.5, 14.6
Length (in)	.571, .575
Insulation Clearance Class (mm)	0 - 2.5

Usage Conditions

Environmental Ambient Temperature (Max) (°C)	85
Environmental Ambient Temperature (Max) (°F)	85
Environmental Ambient Temperature Class	70 - 85°C
Operating Temperature Range (°C)	-40 - 85

Operation/Application

Performance Type	High Dielectric, Standard
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Packaging Features

Packaging Method	Box & Carton, Reel
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Other

Additional Features	Long Terminals, Short Terminals
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Reference Number

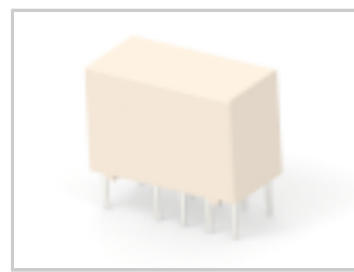
TE Internal Number

CAT-AX41-P1A

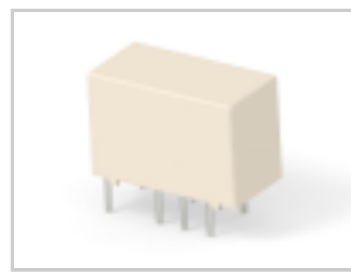
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Products (1 of 5)



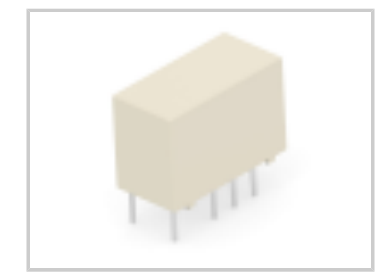
V23079B1201B301



V23079A1008B301



V23079B1203B301



V23079A1003B301

TE Part #	3-1393788-3	2-1393788-2	3-1393788-6	1-1393788-1
Signal Relay Coil Power Rating (DC)	450 mW	807 mW	140 mW	140 mW
Isolation (HF Parameter)			-20.7dB @ 900MHz, -39dB @ 100MHz	
Insertion Loss (HF Parameter)			-.02dB @ 100MHz, -.27dB @ 900MHz	
Signal Relay Mounting Type	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board
Signal Relay Terminal Type	PCB-THT	PCB-THT	PCB-THT	PCB-THT
Signal Relay Coil Voltage Rating	5 VAC	24 VAC	5 VAC	12 VDC
Signal Relay Contact Current Rating	.4 A	2 A	.4 A	2 A
Signal Relay Contact Arrangement	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)
Contact Material	Ruthenium	AgNi+Au	Ruthenium	AgNi+Au
Performance Type	Standard	Standard	Standard	Standard
Signal Relay Coil Magnetic System	Bistable, 2 Coils, Polarized	Monostable, DC, Polarized	Bistable, 2 Coils, Polarized	Monostable, DC, Polarized
Packaging Method	Box & Carton	Box & Carton	Box & Carton	Box & Carton
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	Axicom	Axicom	Axicom	Axicom
Series	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay

***EU RoHS Directive 2011/65/EU**

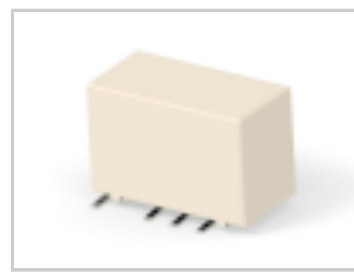
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****EU ELV Directive 2000/53/EC**

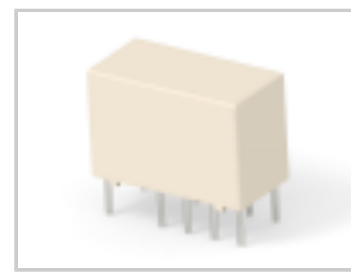
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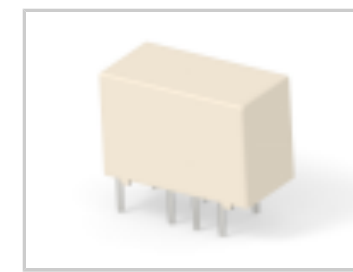
Products (2 of 5)



V23079D1001B301



V23079B1205B301



V23079A1001B301



V23079A1006B301

TE Part #	5-1393788-5	3-1393788-7	1393788-3	2-1393788-0
Signal Relay Coil Power Rating (DC)	682 mW	140 mW	140 mW	602 mW
Isolation (HF Parameter)		-20.7dB @ 900MHz, -39dB @ 100MHz		
Insertion Loss (HF Parameter)		-.02dB @ 100MHz, -.27dB @ 900MHz		
Signal Relay Mounting Type	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board	PCB-THT
Signal Relay Terminal Type	PCB-SMT	PCB-THT	PCB-THT	PCB-THT
Signal Relay Coil Voltage Rating	5 VAC	12 VAC	5 VDC	24 VAC
Signal Relay Contact Current Rating	2 A	.4 A	2 A	2 A
Signal Relay Contact Arrangement	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)
Contact Material	Nickel	Ruthenium	AgNi+Au	AgNi+Au
Performance Type	Standard	Standard	Standard	Standard
Signal Relay Coil Magnetic System	Monostable, DC, Polarized	Bistable, 2 Coils, Polarized	Monostable, DC, Polarized	Monostable, DC, Polarized
Packaging Method	Reel	Box & Carton	Box & Carton	Box & Carton
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	Axicom	Axicom	Axicom	Axicom
Series	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay

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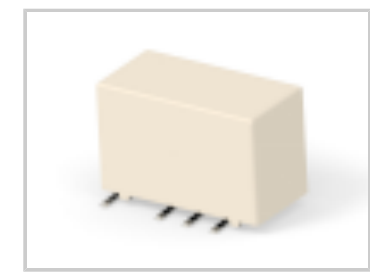
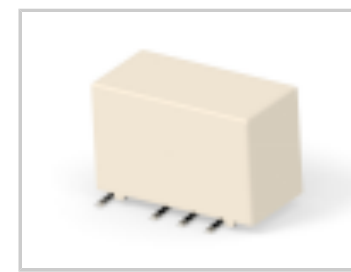
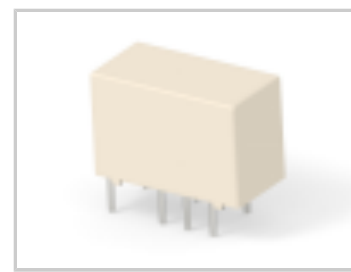
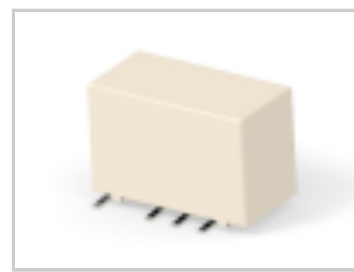
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Products (3 of 5)



V23079F1101B301

V23079A1005B301

V23079D2001B301

V23079G2003B301

TE Part #	7-1393788-3	1-1393788-6	4-1393789-3	5-1393789-1
Signal Relay Coil Power Rating (DC)	727 mW	140 mW	602 mW	893 mW
Isolation (HF Parameter)				
Insertion Loss (HF Parameter)				
Signal Relay Mounting Type	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board
Signal Relay Terminal Type	PCB-SMT	PCB-THT	PCB-SMT	PCB-SMT
Signal Relay Coil Voltage Rating	220 VAC	24 VDC	6 VAC	
Signal Relay Contact Current Rating	.2 A	2 A	2 A	.2 A
Signal Relay Contact Arrangement	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)
Contact Material	Nickel	AgNi+Au	AgNi+Au	Gold F
Performance Type	Standard	Standard	High Dielectric	Standard
Signal Relay Coil Magnetic System	Bistable, 1 Coil, Polarized	Monostable, DC, Polarized	Monostable, DC, Polarized	Monostable, DC, Polarized
Packaging Method	Reel	Box & Carton	Reel	Reel
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	Axicom	Axicom	Axicom	Axicom
Series	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay

***EU RoHS Directive 2011/65/EU**

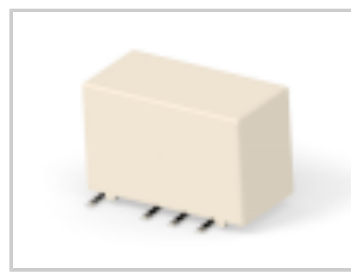
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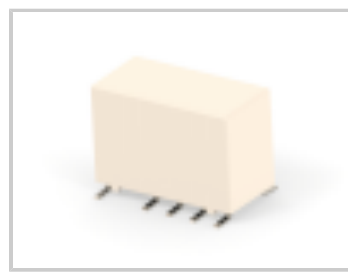
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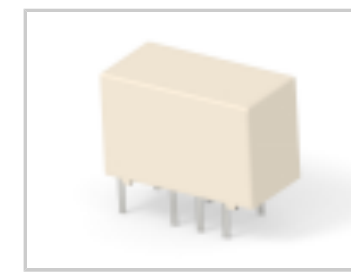
Products (4 of 5)



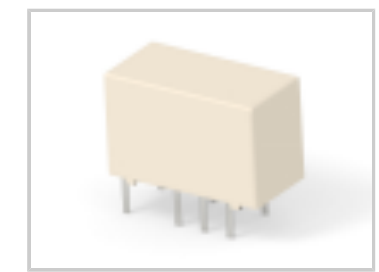
V23079D2003B301



V23079E1201B301



V23079A2001B301



V23079A2003B301

TE Part #	4-1393789-5	6-1393788-8	3-1393789-5	3-1393789-7
Signal Relay Coil Power Rating (DC)	450 mW	140 mW	200 mW	200 mW
Isolation (HF Parameter)	-13.7dB @ 900MHz, -30.6dB @ 100MHz	-20.7dB @ 900MHz, -39dB @ 100MHz	-20.7dB @ 900MHz, -39dB @ 100MHz	-20.7dB @ 900MHz, -39dB @ 100MHz
Insertion Loss (HF Parameter)	-.02dB @ 100MHz, -.5dB @ 900MHz	-.02dB @ 100MHz, -.27dB @ 900MHz	-.02dB @ 100MHz, -.27dB @ 900MHz	-.02dB @ 100MHz, -.27dB @ 900MHz
Signal Relay Mounting Type	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board
Signal Relay Terminal Type	PCB-SMT	PCB-SMT	PCB-THT	PCB-THT
Signal Relay Coil Voltage Rating	12 VDC		5 VAC	5 VAC
Signal Relay Contact Current Rating	2 A	.4 A	.5 A	.5 A
Signal Relay Contact Arrangement	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)
Contact Material	AgNi+Au	Ruthenium	Ruthenium	Ruthenium
Performance Type	Standard	Standard	Standard	Standard
Signal Relay Coil Magnetic System	Monostable, DC, Polarized	Bistable, 2 Coils, Polarized	Monostable, DC, Polarized	Monostable, DC, Polarized
Packaging Method	Reel	Reel	Box & Carton	Box & Carton
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	Axicom	Axicom	Axicom	Axicom
Series	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay

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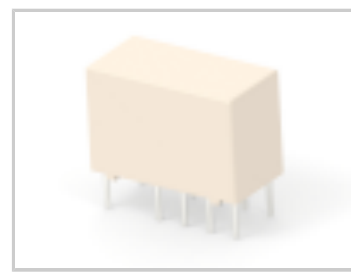
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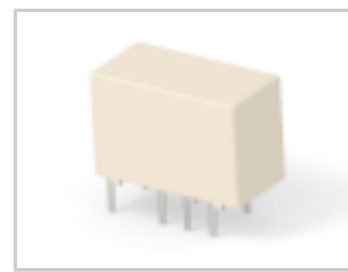
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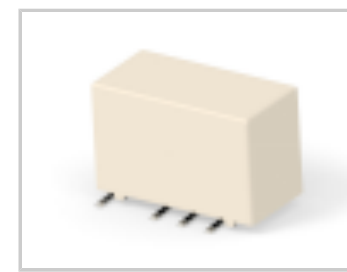
Products (5 of 5)



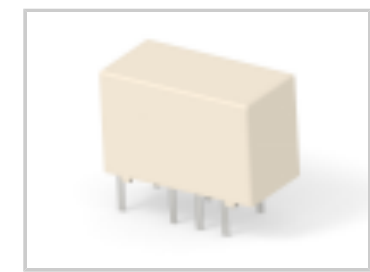
V23079B1208B301



V23079C1103B301



V23079G2008B301



V23079A2008B301

TE Part #	4-1393788-1	4-1393788-8	5-1393789-4	6-1419120-6
Signal Relay Coil Power Rating (DC)	446 mW	807 mW	655 mW	
Isolation (HF Parameter)				
Insertion Loss (HF Parameter)				
Signal Relay Mounting Type	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board	Printed Circuit Board
Signal Relay Terminal Type	PCB-THT	PCB-THT	PCB-SMT	PCB-THT
Signal Relay Coil Voltage Rating	12 VAC	5 VAC		48 VAC
Signal Relay Contact Current Rating	1 A	2 A	2 A	2 A
Signal Relay Contact Arrangement	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)	2 Form C (CO)
Contact Material	Nickel-Palladium	AgNi+Au	Nickel	Nickel
Performance Type	Standard	High Dielectric	Standard	Standard
Signal Relay Coil Magnetic System	Bistable, 2 Coils, Polarized	Bistable, 1 Coil, Polarized	Monostable, DC, Polarized	Monostable, DC, Polarized
Packaging Method	Box & Carton	Box & Carton	Reel	Box & Carton
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	Axicom	Axicom	Axicom	Axicom
Series	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay	Axicom P2 Signal Relay

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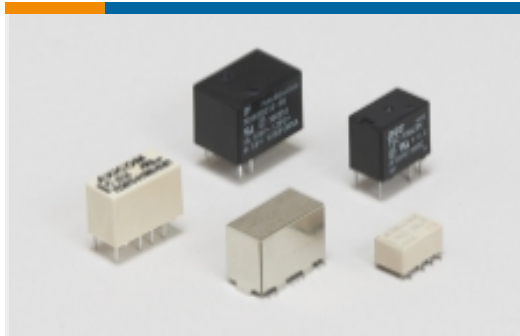
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Related Materials

Catalog Section

Transportation, Storage, Handling, Assembly and Testing of AXICOM THT Relays
English

Also in the Series | [Axicom P2 Signal Relay](#)



Signal Relays(91)