AZ5

SUBMINIATURE PC BOARD RELAY

FEATURES

- Subminiature size for high density packaging
- Coil sensitivity to 100 mW
- Extremely low cost
- Coils to 24 VDC
- · Epoxy sealed for automatic wave soldering
- 1 Amp and 2 Amp contacts
- Life expectancy to 10 million operations
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL file E43203; CSA file 74120

CONTACTS

Arrangement	SPDT (1 Form C) Welded crossbar construction			
Ratings Light Duty	Resistive load: Max. switched power: 30 W or 60 VA Max. switched current: 1 A Max. switched voltage: 150 VDC or 300 VAC UL Rating: 1 A at 30 VDC 0.5 A at 120 VAC			
Heavy Duty	Max. switched power: 60 W or 120 VA Max. switched current: 2 A Max. switched voltage: 150 VDC or 300 VAC UL Rating: 2 A at 30 VDC 1 A at 120 VAC			
Material Light Duty Heavy Duty	Silver palladium, gold clad Silver nickel			
Resistance	< 50 milliohms initially			

COIL

Power At Pickup Voltage (typical)	Standard coil: 220 mW Sensitive coil: 100 mW			
Max. Continuous Dissipation	1.1 W at 20°C (68°F) ambient .8 W at 40°C (104°F) ambient			
Temperature Rise	Standard: 40°C (72°F) at nominal coil voltage Sensitive: 22°C (40°F) at nominal voltage			
Temperature	Max. 105°C (221°F)			

NOTES

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Other coil resistances and sensitivities available upon request.
- 4. Specifications subject to change without notice.



GENERAL DATA

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Life Expectancy Mechanical Electrical			
Operate Time (typical)	Standard: 3 ms at nominal coil voltage Sensitive: 5 ms at nominal coil voltage		
Release Time (typical)	1 ms at nominal coil voltage (with no coil suppression)		
Capacitance	Coil to contact: 3.0 pF Contact to contact: 3.0 pF		
Bounce (typical)	At 10 mA contact current 2 ms at operate 8 ms at release		
Dielectric Strength (at sea level for 1 min.)	1250 Vrms coil to contact 500 Vrms between open contacts Meets FCC Part 68.302 1500 V lightning surge Meets FCC Part 68.304 1000 V dielectric		
Insulation Resistance	100 megohms min. at 20°C, 500 VDC, 50% RH		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature Operating Storage	At nominal coil voltage Standard: -25°C (-13°F) to 60°C (140°F) Sensitive: -25°C (-13°F) to 75°C (167°F) Both: -25°C (-13°F) to 105°C (221°F)		
Vibration	0.062" DA at 10–55 Hz		
Shock	Standard: 10 g Sensitive: 6 g		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Max. Immersion Time	30 seconds		
Weight	3.5 grams		

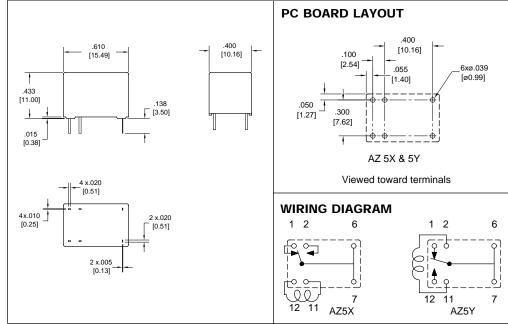
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AZ5

RELAY ORDERING DATA

STANDARI	STANDARD RELAYS: Light Duty Type								
	COIL SPECI	ORDER NUMBER							
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	AZ5X Footprint	AZ5Y Footprint				
5	6.8	56	3.5	AZ5X-1C-5DE	AZ5Y-1C-5DE				
6	8.1	80	4.2	AZ5X-1C-6DE	AZ5Y-1C-6DE				
9	12.2	180	6.3	AZ5X-1C-9DE	AZ5Y-1C-9DE				
12	16.2	320	8.4	AZ5X-1C-12DE	AZ5Y-1C-12DE				
24	32.4	1,280	16.8	AZ5X-1C-24DE	AZ5Y–1C–24DE				
SENSITIVE RELAYS: Light Duty Type									
	COIL SPECI	ORDER NUMBER							
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	AZ5X Footprint	AZ5Y Footprint				
5	10.0	120	3.5	AZ5X-1C-5DSE	AZ5Y-1C-5DSE				
6	12.0	180	4.2	AZ5X-1C-6DSE	AZ5Y-1C-6DSE				
9	18.0	405	6.3	AZ5X-1C-9DSE	AZ5Y-1C-9DSE				
12	24.0	700	8.4	AZ5X-1C-12DSE	AZ5Y-1C-12DSE				
24	48.0	2,800	16.8	AZ5X-1C-24DSE	AZ5Y-1C-24DSE				
STANDARI	STANDARD RELAYS: Heavy Duty Type								
	COIL SPECI	FICATIONS		ORDER NUMBER					
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	AZ5X Footprint	AZ5Y Footprint				
5	6.8	56	3.5	AZ5X-1CH-5DE	AZ5Y-1CH-5DE				
6	8.1	80	4.2	AZ5X-1CH-6DE	AZ5Y-1CH-6DE				
9	12.2	180	6.3	AZ5X-1CH-9DE	AZ5Y-1CH-9DE				
12	16.2	320	8.4	AZ5X-1CH-12DE	AZ5Y-1CH-12DE				
24	32.4	1,280	16.8	AZ5X-1CH-24DE	AZ5Y-1CH-24DE				

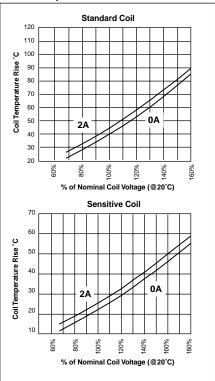
MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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Coil Temperature Rise



Maximum Switching Capacity

