### **AZ955**

# SUBMINIATURE PC BOARD RELAY

#### **FEATURES**

- · Subminiature size for high density packaging
- DIL pitch terminals
- Epoxy sealed for automatic wave soldering
- High sensitivity: 150 mW nominal with 84 mW pickup
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL / CUR file E43203



Arrangement	SPDT (1 Form C) Bifurcated crossbar contacts		
Ratings Light Duty	Resistive load: Max. switched power: 30 W or 60 VA Max. switched current: 1 A Max. switched voltage: 60 VDC or 125 VAC UL Rating: 1 A at 30 VDC 0.3 A at 60 VDC 0.5 A at 125 VAC		
Material	Silver nickel, gold clad		
Resistance	< 100 milliohms initially		

#### COIL

Power At Pickup Voltage (typical) Max. Continuous Dissipation	Standard coil:113 mW Sensitive coil: 84 mW .5 W at 20°C (68°F) ambient
Temperature Rise	Standard: 33°C (59°F) at nominal coil voltage Sensitive: 25°C (45°F) at nominal coil 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**

Life Expectancy Mechanical Electrical	Minimum operations 10 million operations 1 x 10 <sup>5</sup> at 0.5A 120 VAC Res.		
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: -40°C (-40°F) to 70°C (158°F) Sensitive: -40°C (-40°F) to 80°C (176°F) Both: -40°C (-40°F) to 105°C (221°F)		
Vibration	0.039" DA at 10-55 Hz		
Shock	10 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	1.8 grams		

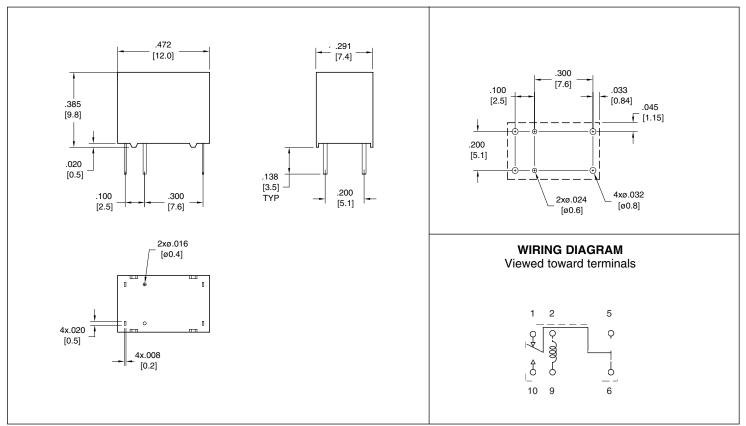


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#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS: STANDARD COIL						
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	ORDER NUMBER		
1.5	1.1	2.4	11.3	AZ955-1C-1.5DE		
3	2.3	4.7	45.0	AZ955-1C-3DE		
5	3.8	7.9	125	AZ955-1C-5DE		
6	4.5	9.5	180	AZ955-1C-6DE		
9	6.8	14.2	405	AZ955-1C-9DE		
12	9.0	19.0	720	AZ955-1C-12DE		
24	18.0	37.9	2880	AZ955-1C-24DE		
COIL SPECIFICATIONS: SENSITIVE COIL						
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	ORDER NUMBER		
1.5	1.1	2.7	15.0	AZ955-1C-1.5DSE		
3	2.3	5.5	60.0	AZ955-1C-3DSE		
5	3.8	9.1	167	AZ955-1C-5DSE		
6	4.5	11.0	240	AZ955-1C-6DSE		
9	6.8	16.4	540	AZ955-1C-9DSE		
12	9.0	21.9	960	AZ955-1C-12DSE		
24	18.0	43.8	3840	AZ955-1C-24DSE		

#### **MECHANICAL DATA**



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm$  .010"



### <u>AMERICAN ZETTLER, INC.</u>