

AZ957

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 96 mW pickup
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL, CUR file E43203



CONTACTS

Arrangement	SPDT (1 Form C) Crossbar contacts
Ratings	Resistive load: Max. switched power: 30 W or 62.5 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 gold clad
Resistance	< 100 milliohms initially (6 V 1 A method)

COIL

Power At Pickup Voltage (typical) Max. Continuous Dissipation Temperature Rise	Standard coil: 128 mW Sensitive coil: 96 mW .5 W at 20°C (68°F) ambient 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 ⁵ 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: 7.0 pF Contact to contact: 7.0 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 400 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: -25°C (-13°F) to 105°C (221°F)
Vibration	3.3 mm DA at 10–55 Hz
Shock	10 g Functional, 100g destructive
Enclosure	P.E.T. polyester
Terminals	Tinned copper alloy
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Immersion Time	30 seconds
Weight	2.2 grams



AMERICAN ZETTLER, INC.

www.azettler.com

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

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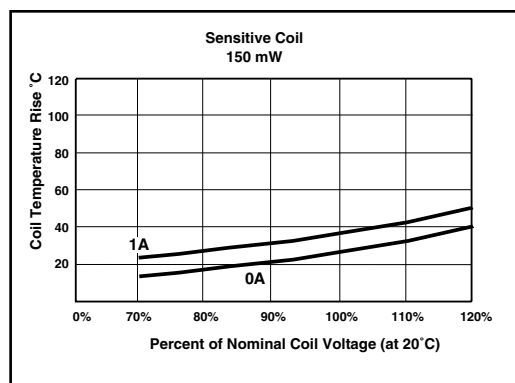
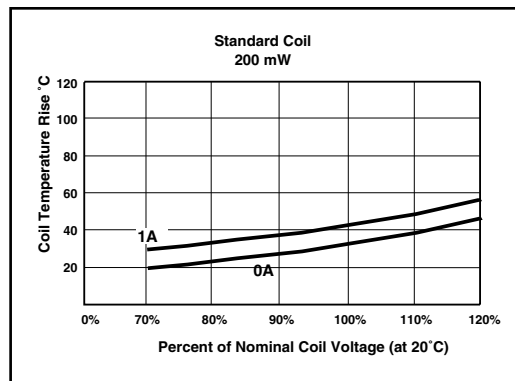
RELAY ORDERING DATA

COIL SPECIFICATIONS: STANDARD COIL

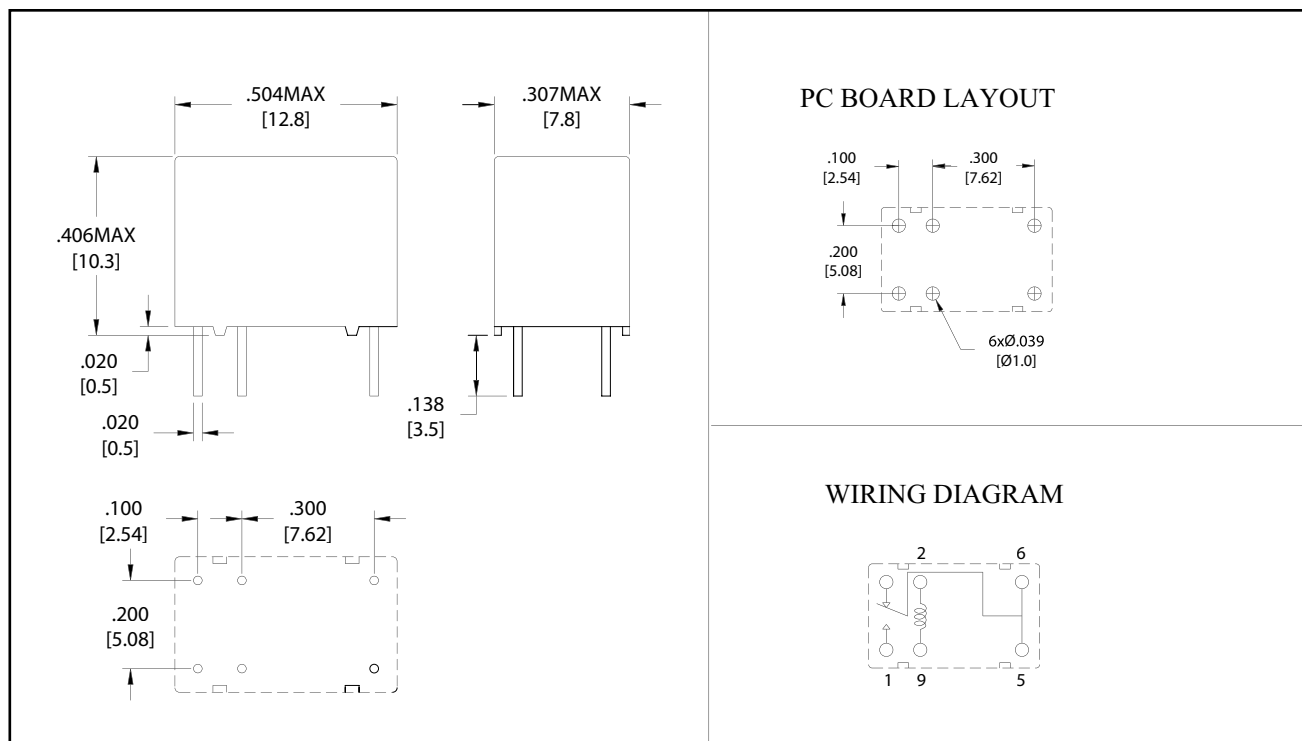
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	ORDER NUMBER
1.5	1.2	2.4	11.3	AZ957-1C-1.5DE
3	2.4	4.7	45.0	AZ957-1C-3DE
5	4.0	7.9	125	AZ957-1C-5DE
6	4.8	9.5	180	AZ957-1C-6DE
9	7.2	14.2	405	AZ957-1C-9DE
12	9.6	19.0	720	AZ957-1C-12DE
24	19.2	37.9	2880	AZ957-1C-24DE

COIL SPECIFICATIONS: SENSITIVE COIL

Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	ORDER NUMBER
1.5	1.2	2.7	15.0	AZ957-1C-1.5DSE
3	2.4	5.5	60.0	AZ957-1C-3DSE
5	4.0	9.1	167	AZ957-1C-5DSE
6	4.8	11.0	240	AZ957-1C-6DSE
9	7.2	16.4	540	AZ957-1C-9DSE
12	9.6	21.9	960	AZ957-1C-12DSE
24	19.2	43.8	3840	AZ957-1C-24DSE



MECHANICAL DATA



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



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