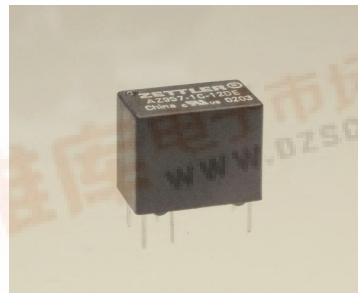


AZ957

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 continuous 2 A (30 s, 50% duty) Max. switched voltage: 60 VDC* or 125 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	1.0 A at 30 VDC resistive 0.3 A at 60 VDC resistive 0.5 A at 125 VAC resistive
Material	Silver palladium, gold clad
Resistance	< 100 milliohms initially

GENERAL DATA

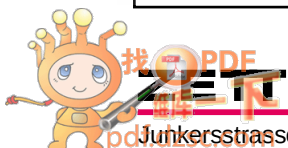
Life Expectancy Mechanical Electrical	Minimum operations 10 million operations 1 x 10 ⁵ at 0.5 A 120 VAC Res.
Operate Time (typical)	Standard: 3 ms at nominal coil voltage Sensitive: 5 ms at nominal coil voltage
Release Time (typical)	1 ms at nominal coil voltage (with no coil suppression)
Capacitance	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: -40°C (-40°F) to 105°C (221°F)
Vibration	0.13" (3.3 mm) DA at 10–55 Hz
Shock	10 g
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
Packing unit in pcs	20 per plastic tube / 1000 per carton box

COIL

Power At Pickup Voltage (typical) Max. Continuous Dissipation Temperature Rise Standard coil Sensitive coil	Standard coil: 128 mW Sensitive coil: 96 mW 0.5 W at 20°C (68°F) ambient 33°C (59°F) at nominal coil voltage 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. Specifications subject to change without notice.



AZ957

RELAY ORDERING DATA

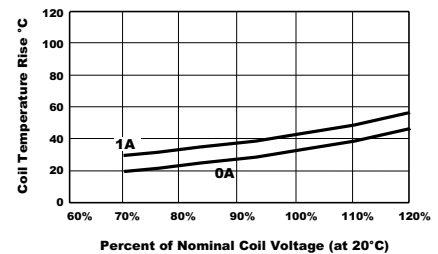
COIL SPECIFICATIONS: STANDARD COIL

Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	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	2,880	AZ957-1C-24DE

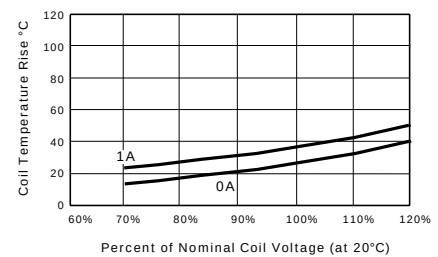
COIL SPECIFICATIONS: SENSITIVE COIL

Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	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	3,840	AZ957-1C-24DSE

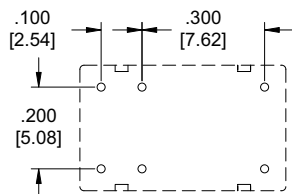
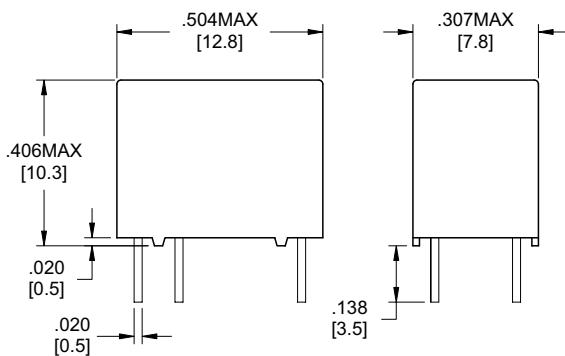
Standard Coil 200 mW



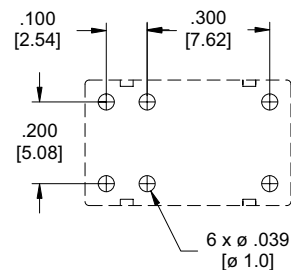
Sensitive Coil 150 mW



MECHANICAL DATA

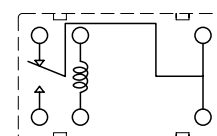


PC BOARD LAYOUT



Viewed toward terminals

WIRING DIAGRAM



Viewed toward terminals

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

ZETTLER electronics GmbH

Junkersstrasse 3, D-82178 Puchheim, Germany

Tel. +49 89 800 97 0

Fax +49 89 800 97 200

office@ZETTLERelectronics.com

www.ZETTLERelectronics.com