AZ957

SUBMINIATURE PC BOARD RELAY

FEATURES

- Subminiature size for high density packaging
- DIL pitch terminals
- Epoxy sealed for automatic wave soldering
- High sensitivity: 150mW nominal with 96mW pickup
- Meets FCC Part 68.302 1500V lightning surge
- Meets FCC Part 68.304 1000V dielectric
- UL, CUR file E43203

CONTACTS

Arrangement	SPDT (1 Form C) Crossbar contacts
Ratings	Resistive load: Max. switched power: 30W or 62.5VA Max. switched current: 1A Max. switched voltage: 60VDC or 125VAC **UL Rating:** 1A at 30VDC 0.3A at 60VDC 0.5A at 125VAC
Material	Silver gold clad
Resistance	< 100 milliohms initially (6V, 1A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	Standard coil:128mW Sensitive coil: 96mW
Max. Continuous Dissipation	0.5W 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 5 x 10^6 operations 1 x 10^5 at 0.5A, 125VAC Res.
Operate Time (typical)	Standard: 3ms at nominal coil voltage Sensitive: 5ms at nominal coil voltage
Release Time (typical)	1ms at nominal coil voltage (with no coil suppression)
Capacitance	Coil to contact: 7.0pF Contact to contact: 7.0pF
Bounce (typical)	At 10mA contact current 2ms at operate 8ms at release
Dielectric Strength (at sea level for 1 min.)	1000Vrms coil to contact 500Vrms between open contacts Meets FCC Part 68.302 1500V lightning surge Meets FCC Part 68.304 1000V dielectric
Insulation Resistance	100 megohms min. at 20°C, 500VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage Standard: -40°C (-22°F) to 70°C (158°F) Sensitive: -30°C (-22°F) to 80°C (176°F) Both: -25°C (-13°F) to 105°C (221°F)
Vibration	3.3mm DA at 10–55 Hz
Shock	20 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

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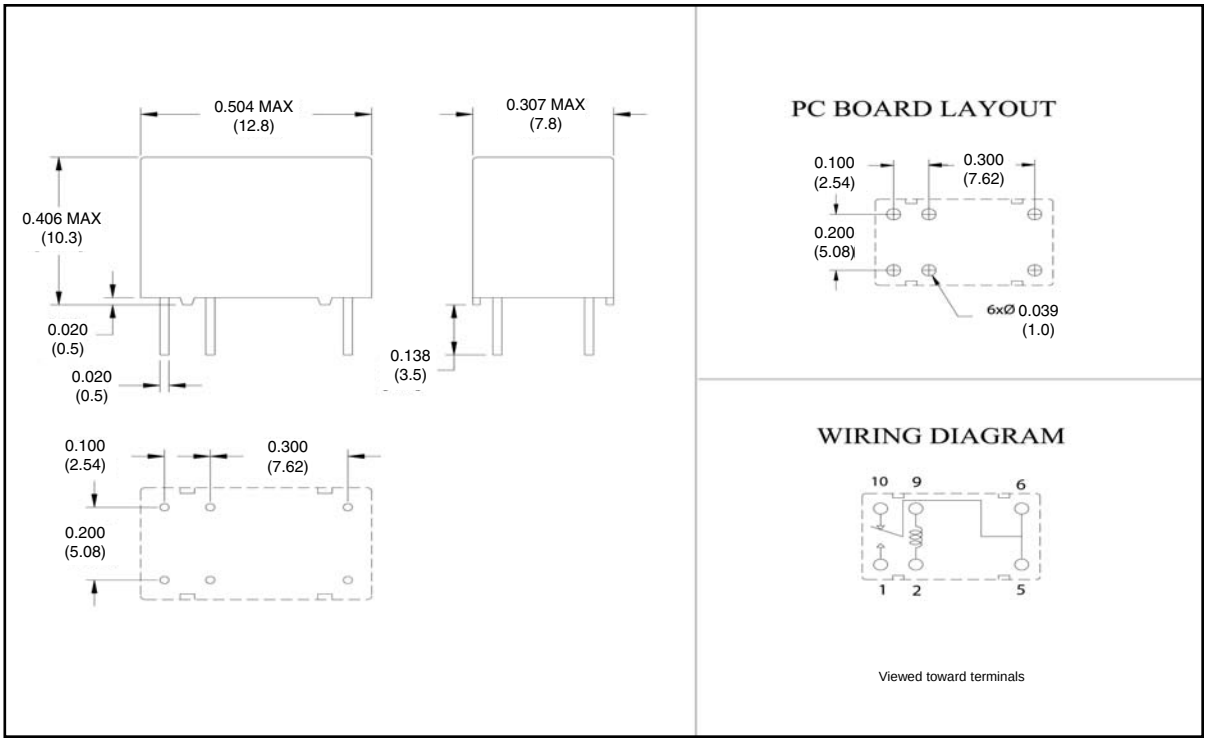
RELAY ORDERING DATA

COIL SPECIFICATIONS: STANDARD COIL				
Nominal Coil VDC	**Must. Operate VDC**	**Max. Continuous VDC**	**Coil Resistance ±10%**	**ORDER NUMBER**
1.5	1.2	2.3	11.3	AZ957-1C-1.5DE
3	2.4	4.5	45.0	AZ957-1C-3DE
5	4.0	7.5	125	AZ957-1C-5DE
6	4.8	9.0	180	AZ957-1C-6DE
9	7.2	13.5	405	AZ957-1C-9DE
12	9.6	18.0	720	AZ957-1C-12DE
24	19.2	36.0	2880	AZ957-1C-24DE
COIL SPECIFICATIONS: SENSITIVE COIL				
Nominal Coil VDC	**Must. Operate VDC**	**Max. Continuous VDC**	**Coil Resistance ±10%**	**ORDER NUMBER**
1.5	1.2	3.0	15.0	AZ957-1C-1.5DSE
3	2.4	6.0	60.0	AZ957-1C-3DSE
5	4.0	10.0	167	AZ957-1C-5DSE
6	4.8	12.0	240	AZ957-1C-6DSE
9	7.2	18.0	540	AZ957-1C-9DSE
12	9.6	24.0	960	AZ957-1C-12DSE
24	19.2	48.0	3840	AZ957-1C-24DSE

MECHANICAL DATA



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