

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 file E43203; CSA file LR 702514



CONTACTS

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)	Standard coil: 113 mW Sensitive coil: 84 mW
Max. Continuous Dissipation	.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 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: 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: -25°C (-13°F) to 105°C (221°F)
Vibration	0.039" (1.0 mm) 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

Discontinuation Notice

Discontinuation date:

Date of last order:

Recommended replacement:

31.12.2012

30.06.2012

AZ957

AZ955

RELAY ORDERING DATA

COIL SPECIFICATIONS: STANDARD COIL				
Nominal Coil VDC	Must. Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	ORDER NUMBER
1.5	1.1	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 $\pm 10\%$	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

PC BOARD LAYOUT
Viewed toward terminals

WIRING DIAGRAM
Viewed toward terminals

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

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