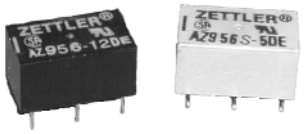
AZ956

MICROMINIATURE POLARIZED RELAY

FEATURES

- Microminiature size: up to 50% less board area than previous generation telecom relays
- Meets FCC Part 68.302 1500 V lightning surge
- Low power consumption: 36 mW pickup
- Stable contact resistance for low level signal switching
- Epoxy sealed for automatic wave soldering and cleaning
- UL, CUR file E43203
- All plastics meet UL94 V–0, 30 min. oxygen index



CONTACTS

Arrangement	SPDT (1 Form C) Bifurcated crossbar contacts
Ratings	Resistive load: Max. switched power: 30 W or 60 VA Max. switched current: 1.0 A Max. switched voltage: 150 VDC or 125 VAC
Rated Load **UL**	 0.5 A at 120 VAC 1.0 A at 30 VDC
Material	Palladium nickel with gold-rhodium overlay
Resistance	< 50 milliohms initally (6 V, 10 mA method)

COIL (Polarized)

Power	
At Pickup Voltage (typical)	36 mW
Max. Continuous Dissipation	0.5 W at 20°C (68°F)
Temperature Rise	At nominal coil voltage 8°C (15°F)
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. Relay has fixed coil polarity.
4. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^9 2.5 x 10^5 at 0.4 A, 125 VAC, resistive 3 x 10^6 at 1.0 A, 24 VDC, resistive
Operate Time (typical)	1 ms at nominal coil voltage
Release Time (typical)	0.4 ms at nominal coil voltage (with no coil suppression)
Bounce (typical)	At 10 mA contact current 1 ms at operate or release
Dielectric Strength (at sea level)	1500 Vrms contact to coil 500 Vrms between open contacts
Dropout	Greater than 10% of nominal coil voltage
Insulation Resistance	10^9 ohms min. at 25°C, 500 VDC, 50% RH
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
Vibration	Operational, 40 g, 10–200 Hz
Shock	Operational, 50 g min., 11 ms Non-destructive, 150 g min., 11 ms
Max. Solder Temp. Temp./Time	Vapor phase: 215°C, 40 Sec. Infrared: 215°C, 40 Sec. Double wave: 260°C, 10 Sec.
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	1.8 grams
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.

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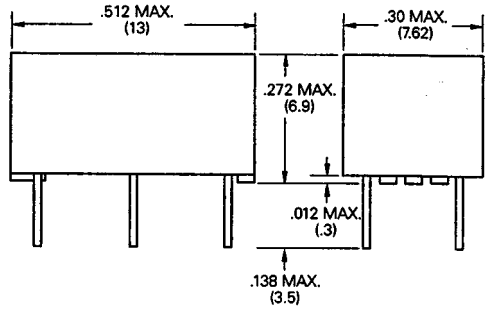
RELAY ORDERING DATA

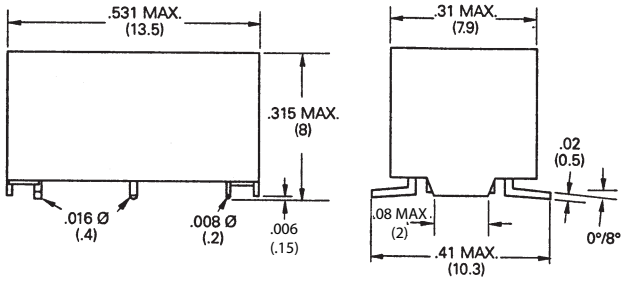
STANDARD RELAYS						Order Number	
Nominal Coil VDC	Max. Continuous VDC		Coil Resistance ± 10%		Must Operate VDC	THT Through Hole	SMT
	THT	SMT	THT	SMT			
1.5	4.5	4.0	36	28	1.13	AZ956–1.5DE	AZ956S–1.5DE
3	8.8	8.0	137	113	2.25	AZ956–3DE	AZ956S–3DE
5	14.5	13.3	370	313	3.75	AZ956–5DE	AZ956S–5DE
9	25.5	23.9	1165	1013	6.75	AZ956–9DE	AZ956S–9DE
12	35	35	2250	1800	9.00	AZ956–12DE	AZ956S–12DE
15	42	42	3100	2813	11.30	AZ956–15DE	AZ956S–15DE
24	50	50	4500	4500	18.00	AZ956–24DE	AZ956S–24DE

MECHANICAL DATA

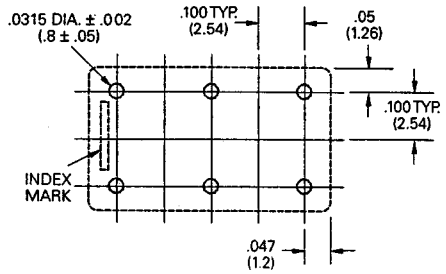
THT



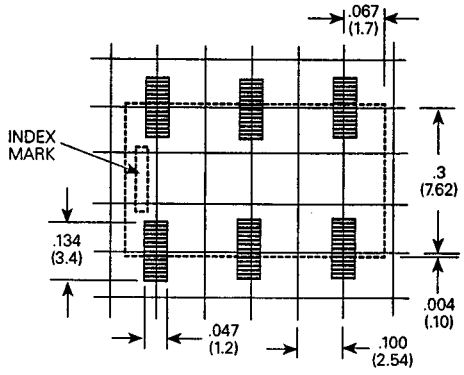
SMT



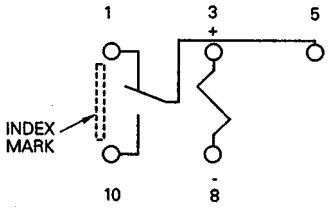
PC BOARD LAYOUT
Viewed toward terminals



PC BOARD LAYOUT
Viewed toward terminals



Wiring Diagram
Viewed toward terminals



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

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