## **AZ6951**\_\_

# SENSITIVE SUBMINIATURE RELAY

#### **FEATURES**

- Extremely small footprint utilizing only 0.18 square inch of PCB area
- Thin vertical profile only 0.25" wide
- 1 Form A contact with up to 5 Amp switching capability
- High sensitivity, 100 mW pickup
- Dielectric strength 3000 Vrms contact to coil
- Coils to 24 VDC
- Epoxy sealed for automatic wave soldering and cleaning
- UL/CUR File E43203



#### CONTACTS

Arrangement	SPST- N.O. (1 Form A)		
Ratings	Resistive load:		
UL Ratings	Max. switched power: 150 W or 1250 VA Max. switched current: 5 A Max. switched voltage: 30 VDC or 250 VAC 5 A at 30 VDC resistive 5 A at 250 VAC resistive		
Material	Options: Silver tin oxide Silver tin oxide with gold plating		
Resistance	< 100 milliohms initially (6 V, 1 A, voltage drop method)		

#### COIL

Power			
At Pickup Voltage (typical)	100 mW		
Max. Continuous Dissipation	550 mW at 20°C (68°F) ambient 420 mW at 40°C (104°F) ambient		
Temperature Rise	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.

#### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 20 million operations 1 X 10 <sup>5</sup> at 5 A, 30 VDC or 250 VAC Res.		
Operate Time (typical)	6 ms at nominal coil voltage		
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	750 Vrms between open contacts 3000 Vrms contact to coil		
Insulation Resistance	1000 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 -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)		
Vibration	0.062" DA at 10-55 Hz		
Shock	10 g		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Max. Solvent Temp.	80°C (176°F)		
Max. Immersion Time	30 seconds		
Weight	3 grams		



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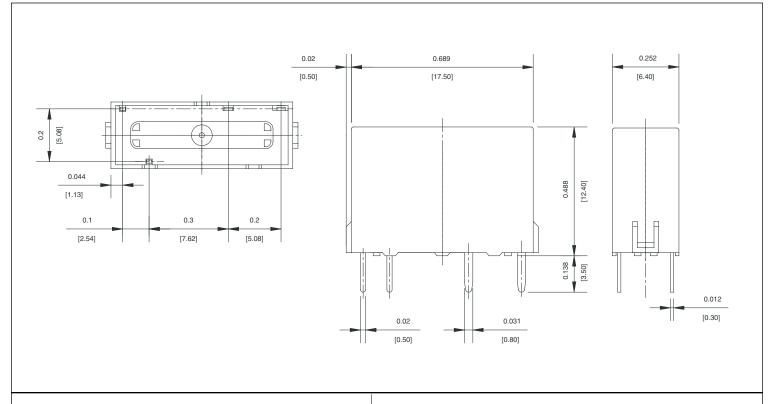
## **AZ6951**

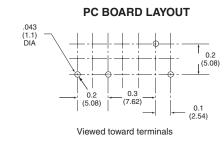
#### **RELAY ORDERING DATA**

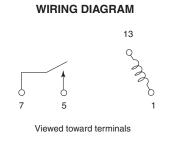
CC	ORDER NUMBER*			
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	1 Form A (SPST- N.O.)
5	6.5	125	3.5	AZ6951-5
6	7.8	180	4.2	AZ6951-6
9	11.7	405	6.3	AZ6951-9
12	15.6	720	8.4	AZ6951-12
18	23.4	1,620	12.6	AZ6951-18
24	31.2	2,880	16.8	AZ6951-24

<sup>\*</sup> Add suffix "G" for gold plated contacts

#### **MECHANICAL DATA**







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



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