

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, 100mW pickup
- Dielectric strength 3000Vrms contact to coil
- Coils to 24VDC
- Epoxy sealed for automatic wave soldering and cleaning
- UL/CUR File E43203



CONTACTS

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

COIL

Power	
At Pickup Voltage (typical)	100mW
Max. Continuous Dissipation	550mW at 20°C (68°F) ambient 420mW 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	Minimum operations 20 million operations
Mechanical	1 X 10 ⁵ at 5A, 30VDC or 250VAC Res.
Electrical	
Operate Time (typical)	6ms at nominal coil voltage
Release Time (typical)	3ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	750Vrms between open contacts 3000Vrms 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	At nominal coil voltage
Operating	-25°C (-30°F) to 70°C (158°F)
Storage	-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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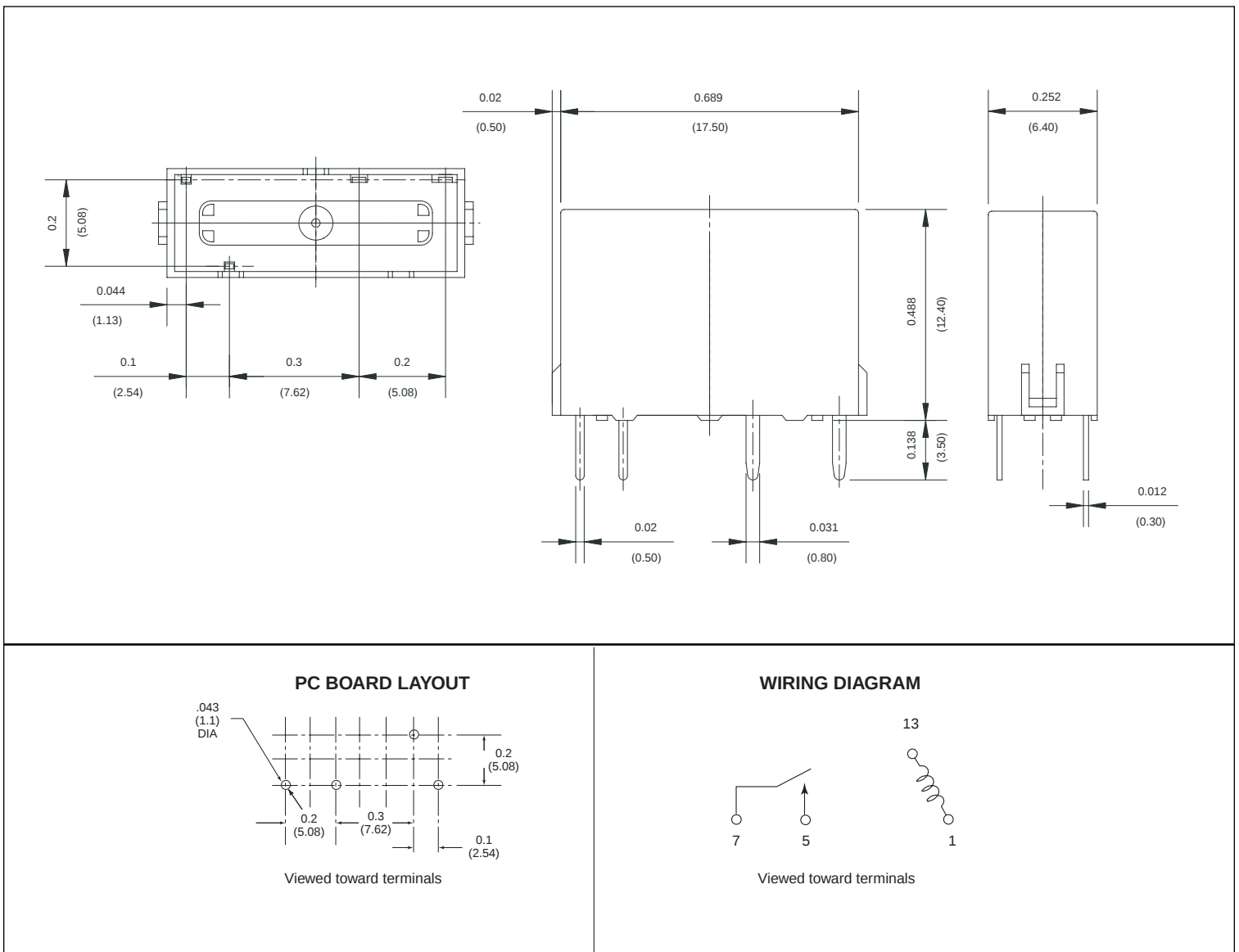
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RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	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

* Add suffix "G" for gold plated contacts

MECHANICAL DATA



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

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.