

# 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

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

### COIL

<b>Power At Pickup Voltage (typical)</b>	100mW
<b>Max. Continuous Dissipation</b>	550mW at 20°C (68°F) ambient 420mW at 40°C (104°F) ambient
<b>Temperature Rise</b>	25°C (45°F) at nominal coil voltage
<b>Temperature</b>	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

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 20 million operations 1 X 10 <sup>5</sup> at 5A, 30VDC or 250VAC Res.
<b>Operate Time (typical)</b>	6ms at nominal coil voltage
<b>Release Time (typical)</b>	3ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	750Vrms between open contacts 3000Vrms contact to coil
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -25°C (-30°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" DA at 10–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	3 grams

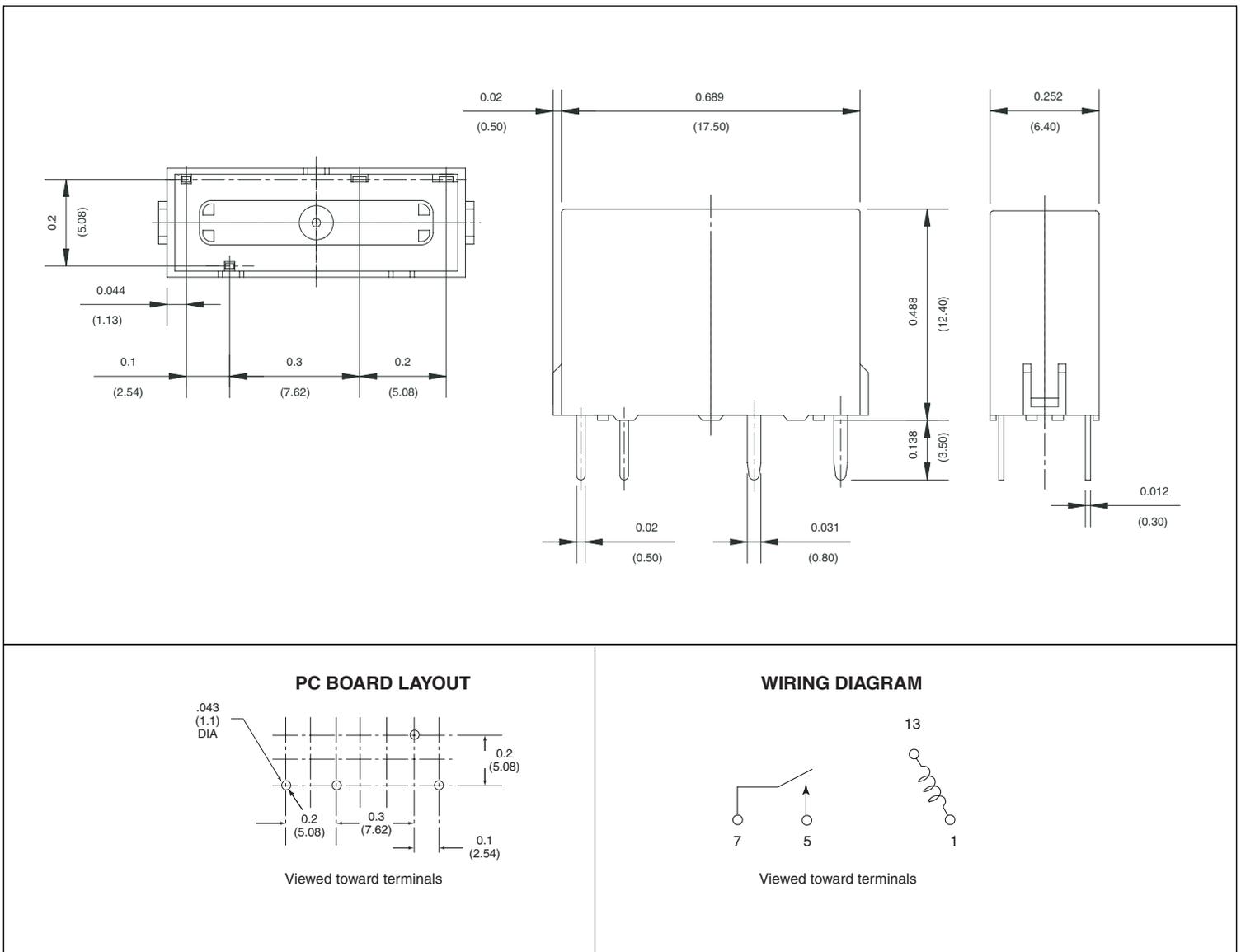
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## RELAY ORDERING DATA

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:  $\pm .010$ "

# AMERICAN ZETTLER, INC.

2/08/16

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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.