

# 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:<br>Max. switched power: 150W or 1250VA<br>Max. switched current: 5A       |
| <b>UL Ratings</b>  | Max. switched voltage: 30VDC or 250VAC<br>5A at 30VDC resistive<br>5A at 250VAC resistive |
| <b>Material</b>    | Options:<br>Silver tin oxide<br>Silver tin oxide with gold plating                        |
| <b>Resistance</b>  | < 100 milliohms initially<br>(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<br>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><br><b>Mechanical</b><br><b>Electrical</b> | Minimum operations<br>20 million operations<br>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<br>(with no coil suppression)                                      |
| <b>Dielectric Strength (at sea level for 1 min.)</b>             | 750Vrms between open contacts<br>3000Vrms contact to coil                                      |
| <b>Insulation Resistance</b>                                     | 1000 megohms min. at 20°C, 500 VDC,<br>50% RH  |
| <b>Dropout</b>   | Greater than 10% of nominal coil voltage   |
| <b>Ambient Temperature</b><br><b>Operating</b><br><b>Storage</b> | At nominal coil voltage<br>-25°C (-30°F) to 70°C (158°F)<br>-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  |

**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

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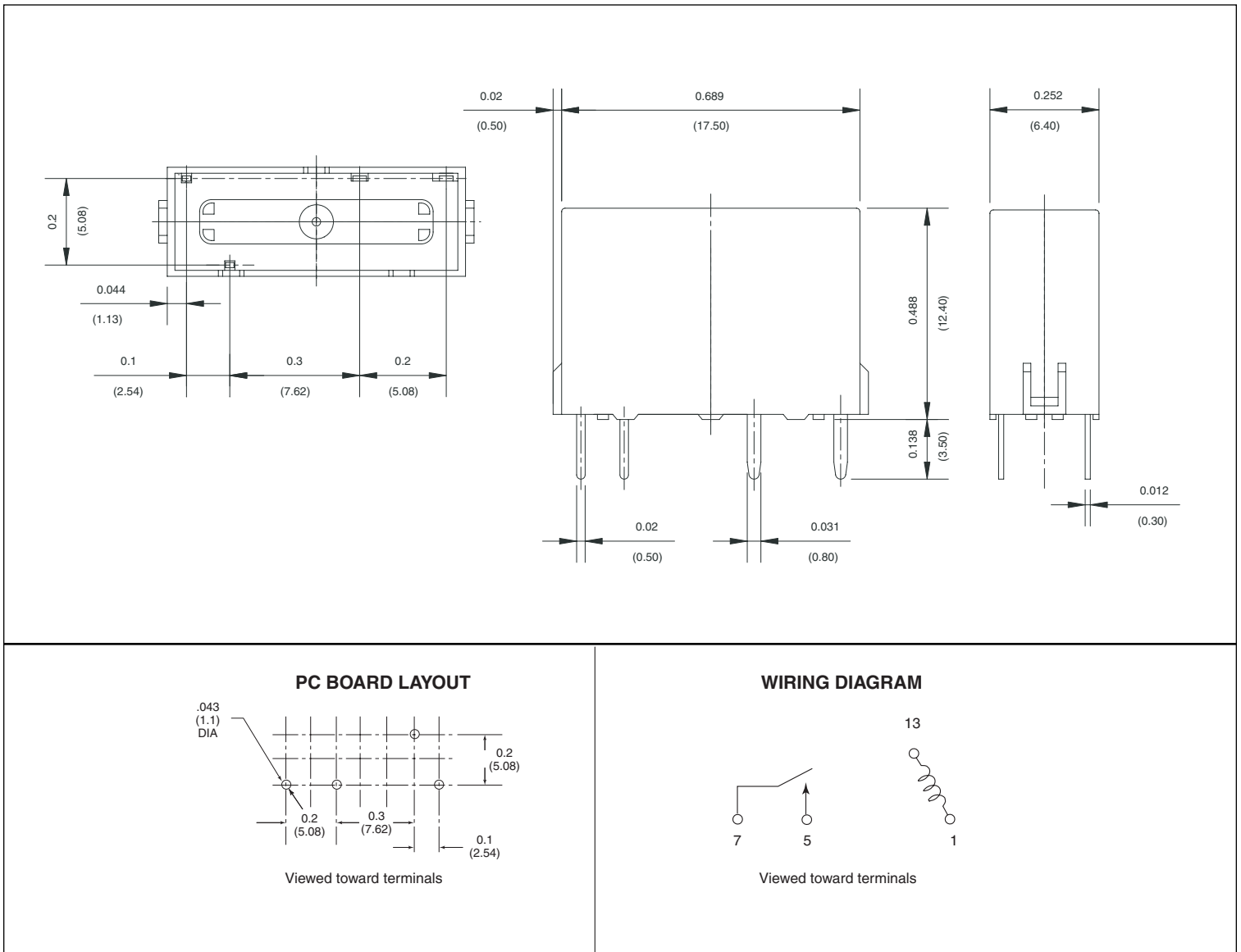
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## RELAY ORDERING DATA

| 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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