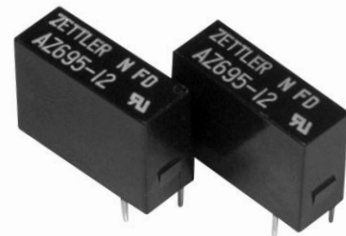


# AZ695

## SENSITIVE SUBMINIATURE RELAY

### FEATURES

- Extremely small footprint utilizing only 0.18 square inch of PCB area
- Thin vertical profile only 0.256" 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
- Sockets are also available
- UL file E44211; CSA file 74461



### CONTACTS

|                    |  |
|--------------------|--|
| <b>Arrangement</b> | SPST (1 Form A)  |
| <b>Ratings</b>     | Resistive load:<br>Max. switched power: 150 W or 1250 VA<br>Max. switched current: 5 A<br>Max. switched voltage: 150* VDC or 250 VAC<br>Inductive load (p.f. = 0.40, L/R = 7 ms)<br>2 A at 250 VAC, 30 VDC<br><b>UL Rating:</b> 5 A at 30 VDC or 250 VAC<br>1/10 HP 120 VAC<br><br>Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. |
| <b>Material</b>    | Options:<br>Silver cadmium oxide<br>Silver cadmium oxide with gold plating   |
| <b>Resistance</b>  | < 30 milliohms initially<br>(at rated current, voltage drop method)  |

### COIL

|                                    |   |
|------------------------------------|---|
| <b>Power</b>                       |   |
| <b>At Pickup Voltage (typical)</b> | 100 mW  |
| <b>Max. Continuous Dissipation</b> | 550 mW at 20°C (68°F) ambient<br>420 mW 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. Minimum permissible contact load:  
SCO contact: 100 mA at 5 VDC  
SCO contact with gold plating: 10 mA at 5 VDC
4. Specifications subject to change without notice.

### GENERAL DATA

|  |  |
|--|--|
| <b>Life Expectancy</b><br>Mechanical<br>Electrical               | Minimum operations<br>20 million operations<br>1 X 10 <sup>5</sup> at 5 A, 30 VDC or 250 VAC |
| <b>Operate Time (typical)</b>                                    | 6 ms at nominal coil voltage   |
| <b>Release Time (typical)</b>                                    | 3 ms at nominal coil voltage<br>(with no coil suppression)                                   |
| <b>Dielectric Strength (at sea level for 1 min.)</b>             | 750 Vrms between open contacts<br>3000 Vrms contact to coil                                  |
| <b>Insulation Resistance</b>                                     | 100 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>-40°C (-40°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  |

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# AZ695

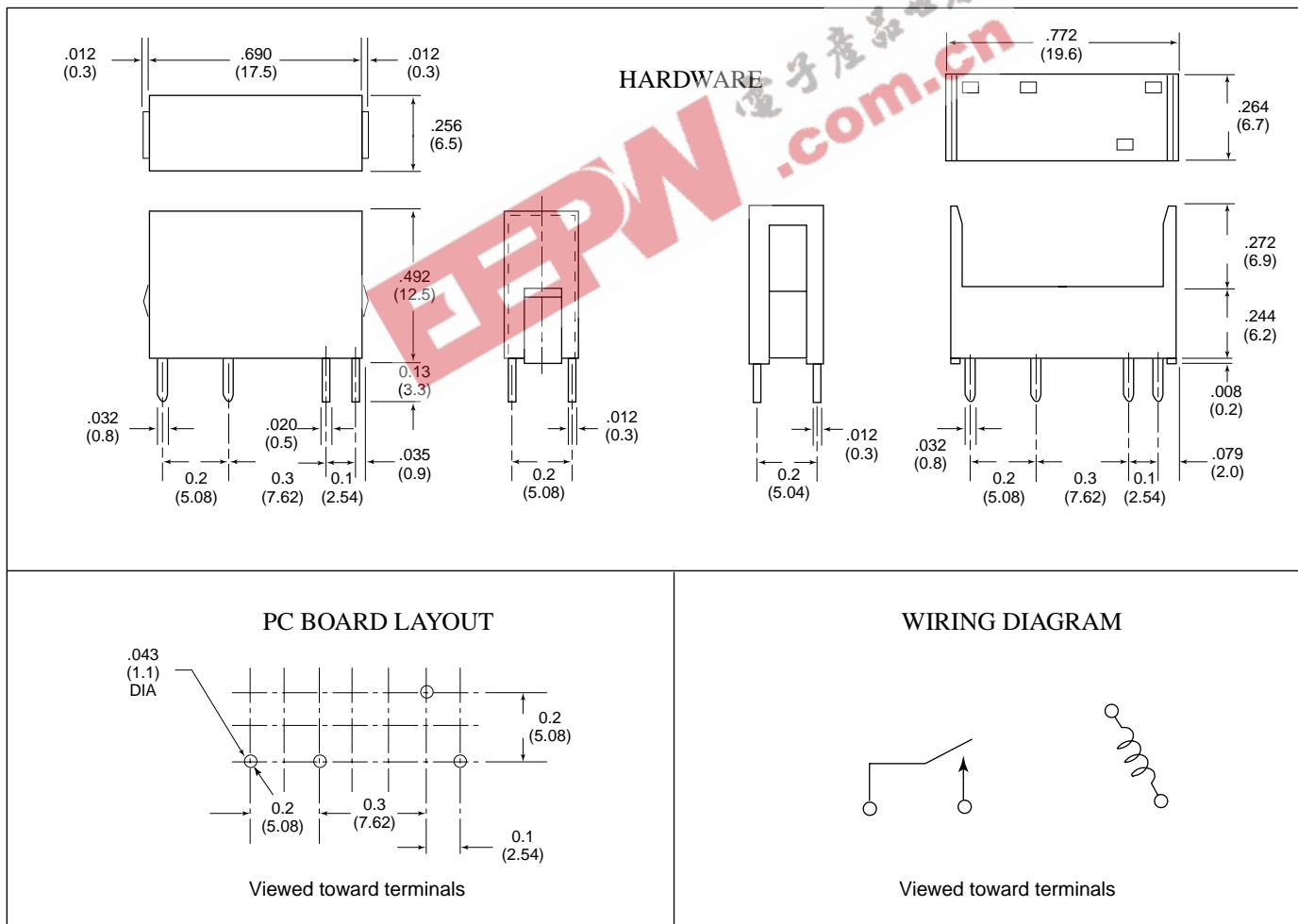
## RELAY ORDERING DATA

| COIL SPECIFICATIONS |                     |                            |                  | ORDER NUMBER |                               |
|---------------------|---------------------|----------------------------|------------------|--------------|-------------------------------|
| Nominal Coil VDC    | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | SCO Contact  | SCO with Gold Plating Contact |
| 5                   | 8.4                 | 125                        | 3.5              | AZ695-5      | AZ695-5G                      |
| 6                   | 10.1                | 180                        | 4.2              | AZ695-6      | AZ695-6G                      |
| 9                   | 15.2                | 405                        | 6.3              | AZ695-9      | AZ695-9G                      |
| 12                  | 20.2                | 720                        | 8.4              | AZ695-12     | AZ695-12G                     |
| 18                  | 29.5                | 1,620                      | 12.6             | AZ695-18     | AZ695-18G                     |
| 24                  | 40.5                | 2,880                      | 16.8             | AZ695-24     | AZ695-24G                     |

## HARDWARE ORDERING DATA

| DESCRIPTION | ORDER NUMBER |
|-------------|--------------|
| Socket      | ST695        |

## MECHANICAL DATA



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