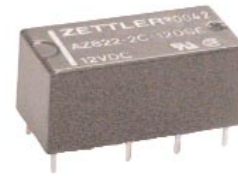


# AZ822

## SUBMINIATURE DIP RELAY

### FEATURES

- Low profile for compact board spacing
- DC coils to 48 VDC
- Life expectancy to 10 million operations
- Standard PC 0.1" grid terminal spacing
- Fits standard 16 pin IC socket
- Epoxy sealed for automatic wave soldering and cleaning
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL file E43203, CSA file 207803



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C) Bifurcated crossbar contacts
<b>Ratings</b>	Resistive load: Max. switched power: 30 W or 62.5 VA Max. switched current: 1.25 A Max. switched voltage: 150 VDC or 250 VAC <b>UL/CSA Rating:</b> 1.25 A at 24 VDC 0.4 A at 125 VAC
<b>Material</b>	AgNi, gold clad
<b>Resistance</b>	< 70 milliohms initially

### COIL

<b>Power At Pickup Voltage (typical)</b>	73 mW 3 - 12 V coils 98 mW 24 V coils 137 mW 48 V coils
<b>Max. Continuous Dissipation</b>	0.84 W at 20°C (68°F)
<b>Thermal Resistance</b>	125 K/W (225 °F/W)
<b>Temperature</b>	Max. 100°C (212°F)

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Relay adjustment may be affected if undue pressure is exerted on relay case.
4. Specifications subject to change without notice.
5. Ultrasonic cleaning is not recommended.

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>8</sup> 5 x 10 <sup>5</sup> at 1 A 30 VDC
<b>Operate Time (typical)</b>	5 ms at nominal coil voltage
<b>Release Time (typical)</b>	2 ms at nominal coil voltage (with no coil suppression)
<b>Capacitance (max.)</b>	Contact to contact: 2 pF Contact set to contact set: 2 pF Contact to coil: 4 pF
<b>Bounce (typical)</b>	At 10 mA contact current 3 ms at operate N.O. side 3 ms at operate N.C. side
<b>Dielectric Strength (at sea level for 1 min.)</b>	1000 Vrms contact to coil 700 Vrms contact to contact 700 Vrms between contact sets
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 5% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -55°C (-55°F) to 85°C (185°F) -55°C (-67°F) to 100°C (212°F)
<b>Vibration</b>	1.5 mm (.06") DA at 10...58 Hz 10 g at 58...500 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester, UL-94:V-0
<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>	55°C (131°F)
<b>Max. Immersion Time</b>	5 minutes
<b>Weight</b>	5 grams

**ZETTLER** electronics

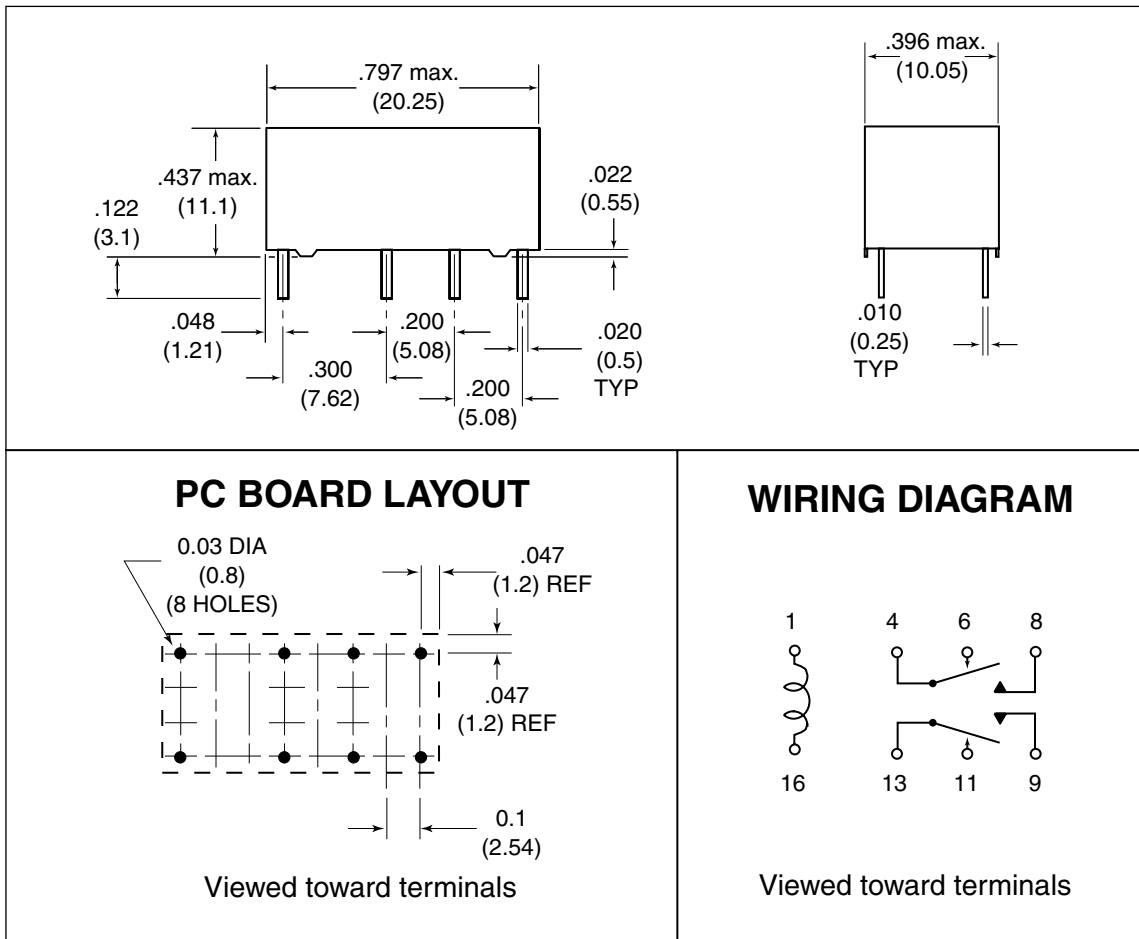
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# AZ822

## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
4.5	10.7	136	3.15	AZ822-2C-4.5DSE
5	11.9	168	3.5	AZ822-2C-5DSE
6	14.3	240	4.2	AZ822-2C-6DSE
9	21.4	544	6.3	AZ822-2C-9DSE
12	28.6	968	8.4	AZ822-2C-12DSE
24	49.4	2880	16.8	AZ822-2C-24DSE
48	83.5	8240	33.6	AZ822-2C-48DSE

## MECHANICAL DATA



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