

# AZ822

## SUBMINIATURE DIP RELAY

### FEATURES

- Low profile for compact board spacing
- DC coils to 48VDC
- 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 1500V lightning surge
- Meets FCC Part 68.304 1000V dielectric
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C) Bifurcated crossbar contacts
<b>Ratings</b>	Resistive load: Max. switched power: 60W or 125VA Max. switched current: 2A Max. switched voltage: 220VDC or 250VAC <b>UL Rating:</b> 1A at 24VDC 0.5A at 120VAC
<b>Material</b>	Silver palladium, gold clad
<b>Resistance</b>	< 50 milliohms initially

### COIL

<b>Power At Pickup Voltage (typical)</b>	98mW (Standard coils) 74mW (Sensitive coils)
<b>Max. Continuous Dissipation</b>	0.94W at 20°C (68°F)
<b>Temperature Rise</b>	15°C (27°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. Relay adjustment may be affected if undue pressure is exerted on relay case.
4. Specifications subject to change without notice.

### 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 1A, 24VDC
<b>Operate Time (typical)</b>	5ms at nominal coil voltage
<b>Release Time (typical)</b>	2ms at nominal coil voltage (with no coil suppression)
<b>Capacitance (max.)</b>	Contact to contact: 1.2pF Contact set to contact set: 1.6pF Contact to coil: 1.5pF
<b>Bounce (typical)</b>	At 10mA contact current 2ms at operate N.O. side 3ms at operate N.C. side
<b>Dielectric Strength (at sea level for 1 min.)</b>	1000Vrms contact to coil 1000Vrms contact to contact 1000Vrms 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 (-67°F) to 90°C (194°F) -55°C (-67°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 (UL94 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>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	Approx. 4.5 grams

**AMERICAN ZETTLER, INC.**

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

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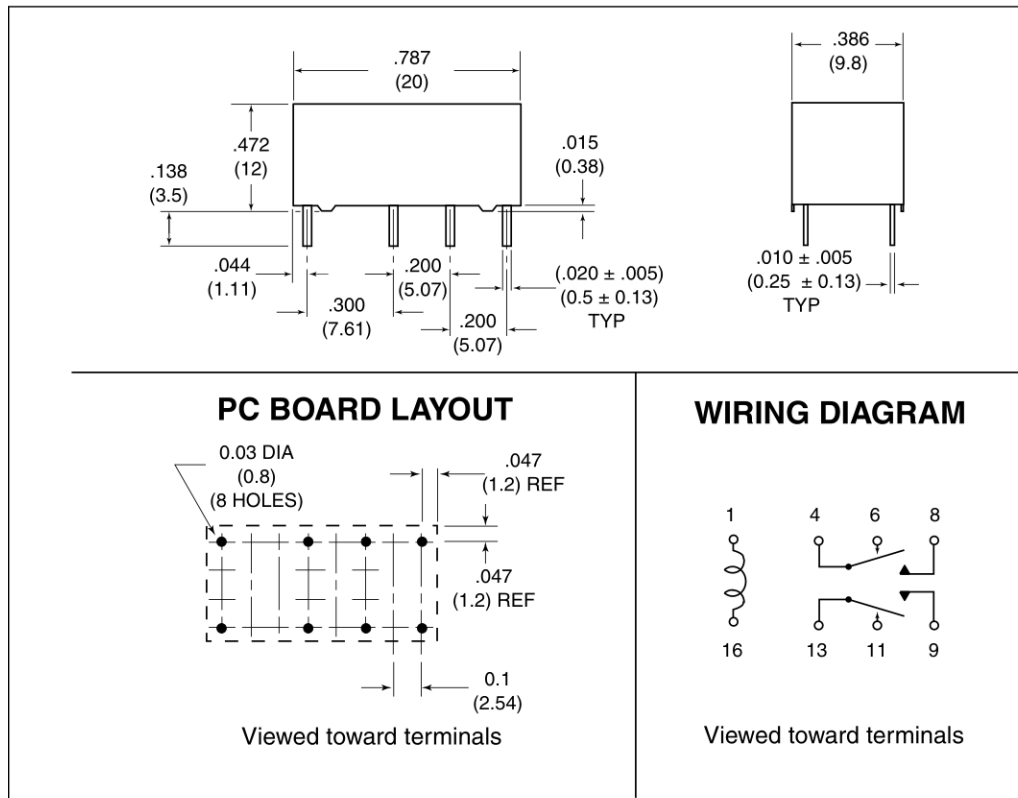
## RELAY ORDERING DATA

COIL SPECIFICATIONS - STANDARD				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
3	6.5	45	2.1	AZ822-2C-3DE
5	10.8	125	3.5	AZ822-2C-5DE
6	13.0	180	4.2	AZ822-2C-6DE
9	19.5	405	6.3	AZ822-2C-9DE
12	26.5	720	8.4	AZ822-2C-12DE
24	52.9	2880	16.8	AZ822-2C-24DE
48	103.9	11,520	33.6	AZ822-2C-48DE

COIL SPECIFICATIONS - SENSITIVE				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
3	7.5	60	2.1	AZ822-2C-3DSE
5	12.5	167	3.5	AZ822-2C-5DSE
6	15.0	240	4.2	AZ822-2C-6DSE
9	22.5	540	6.3	AZ822-2C-9DSE
12	30.0	960	8.4	AZ822-2C-12DSE
18	40.0	1620	12.6	AZ822-2C-18DSE
24	52.9	2880	16.8	AZ822-2C-24DSE
48	84.9	7680	33.6	AZ822-2C-48DSE

## MECHANICAL DATA



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

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