## **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



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

#### COIL

Power At Pickup Voltage (typical) Max. Continuous Dissipation	98mW (Standard coils) 74mW (Sensitive coils) 0.94W at 20°C (68°F)		
Temperature Rise	15°C (27°F) at nominal coil voltage		
Temperature	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**

I –			
Life Expectancy	Minimum operations		
Mechanical	1 x 108		
Electrical	5 x 10 <sup>5</sup> at 1A, 24VDC		
Operate Time (typical)	5ms at nominal coil voltage		
Release Time (typical)	2ms at nominal coil voltage		
,,,	(with no coil suppression)		
Capacitance (max.)	Contact to contact: 1.2pF		
	Contact set to contact set: 1.6pF		
	Contact to coil: 1.5pF		
Bounce	At 10mA contact current		
(typical)	2ms at operate N.O. side		
	3ms at operate N.C. side		
Dielectric Strength	1000Vrms contact to coil		
(at sea level for 1 min.)	1000Vrms contact to contact		
	1000Vrms between contact sets		
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC,		
modiumon recolorance	50% RH		
Dropout	Greater than 5% of nominal coil voltage		
•	Greater than 5% of norminal con voltage		
Ambient Temperature	At nominal coil voltage		
Operating	-55°C (-67°F) to 90°C (194°F)		
Storage	-55°C (-67°F) to 105°C (221°F)		
Vibration	0.062" DA at 10-55 Hz		
Shock	10 g		
Enclosure	P.B.T. polyester (UL94 V-0)		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Max. Solvent Temp.	80°C (176°F)		
Max. Immersion Time	30 seconds		
Weight	Approx. 4.5 grams		

AMERICAN ZETTLER, INC.

2/1/16

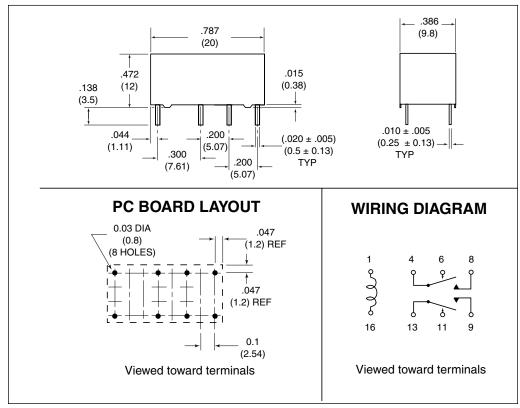
PHONE: (949) 831-5000 E-MAIL: SALES@AZETTLER.COM

## **AZ822**

#### **RELAY ORDERING DATA**

IL SPECIFICATION				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	ORDER NUMBER
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
IL SPECIFICATION				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	ORDER NUMBER
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-12DS
18	40.0	1620	12.6	AZ822-2C-18DS
10				
24	52.9	2880	16.8	AZ822-2C-24DS

#### **MECHANICAL DATA**



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

### AMERICAN ZETTLER, INC.