## **AZ8222**

# SUBMINIATURE ULTRA-SENSITIVE DIP RELAY

#### **FEATURES**

- Low profile for compact board spacing
- DC coils to 48VDC
- Bifurcated crossbar contacts
- Ultra-sensitivity, 84mW pickup
- Life expectancy to 100 million operations
- High switching capacity, 60W, 125VA
- 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)	
Ratings	Resistive load:	
	Max. switched power: 60W or 125VA Max. switched current: 2A Max. switched voltage: 120VDC or 240VAC	
Rated Load UL	2A at 30VDC 1A at 125VAC	
Material	Silver nickel, gold plated	
Resistance	<100 milliohms max (at 10mA, 30mV)	

#### COIL

Power At Pickup Voltage (typical)	180mW standard 100mW sensitive 84mW ultra-sensitive
Max. Continuous Dissipation	1.2W at 20°C (68°F)
Temperature Rise	34°C (61°F) standard 23°C (41°F) sensitive 19°C (34°F) ultra-sensitive
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. Other coil resistances and sensitivities available upon request.
- 4. Specifications subject to change without notice.



#### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>8</sup> 1 x 10 <sup>5</sup> at 2A, 30VDC Res.		
Operate Time (max.)	7ms at nominal coil voltage		
Release Time (max.)	4ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	1500Vrms contact to coil 1000Vrms between open contacts 1500Vrms contact set to contact set		
Insulation Resistance	nce 1000 megohms min. at 20°C, 500VDC, 50% RH		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) standard -40°C (-40°F) to 80°C (176°F) sensitive -40°C (-40°F) to 85°C (185°F) ultra-sensitive -40°C (-40°F) to 105°C (221°F)		
Vibration	1.5mm DA at 10-55 Hz		
Shock	20 g		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy		
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.)	5 grams		



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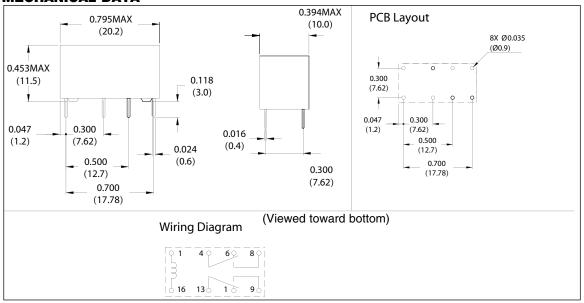
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#### RELAY ORDERING DATA

	STANDARD COIL	SPECIFICATIONS		
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	ORDER NUMBER
3	4.5	30	2.3	AZ8222-2C-3DME
4.5	6.0	63	3.2	AZ8222-2C-4.5DME
5	8.0	90	3.8	AZ8222-2C-5DME
6	10.0	130	4.5	AZ8222-2C-6DME
9	14.5	280	6.8	AZ8222-2C-9DME
12	18.5	450	9.0	AZ8222-2C-12DME
15	22.0	625	11.3	AZ8222-2C-15DME
24	35.5	1600	18.0	AZ8222-2C-24DME
48	56.0	4000	36.0	AZ8222-2C-48DME
	SENSITIVE COIL	SPECIFICATIONS		
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	ORDER NUMBER
3	6.0	45	2.3	AZ8222-2C-3DSE
4.5	9.0	101	3.2	AZ8222-2C-4.5DSE
5	10.0	125	3.8	AZ8222-2C-5DSE
6	12.0	180	4.5	AZ8222-2C-6DSE
9	18.0	405	6.8	AZ8222-2C-9DSE
12	24.0	720	9.0	AZ8222-2C-12DSE
15	30.0	1125	11.3	AZ8222-2C-15DSE
24	48.0	2880	18.0	AZ8222-2C-24DSE
	<b>ULTRA-SENSITIVE CO</b>	OIL SPECIFICATIONS	*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	ORDER NUMBER
3	7.0	60	2.4	AZ8222–2C–3DSSE
4.5	10.4	135	3.2	AZ8222-2C-4.5DSSI
5	11.5	167	4.0	AZ8222–2C–5DSSE
6	13.8	240	4.8	AZ8222-2C-6DSSE
9	20.8	540	7.2	AZ8222-2C-9DSSE
12	27.7	960	9.6	AZ8222-2C-12DSSE
15	34.6	1500	12.0	AZ8222-2C-15DSSE
24	55.2	3840	19.2	AZ8222-2C-24DSSE

<sup>\*</sup>Contact to contact dielectric strength is 500Vrms.

#### **MECHANICAL DATA**



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

### AMERICAN ZETTLER, INC.

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