

# AZ8222

## SUBMINIATURE ULTRA-SENSITIVE DIP RELAY

### FEATURES

- Low profile for compact board spacing
- DC coils to 48 VDC
- Bifurcated crossbar contacts
- Ultra-sensitivity, 84 mW pickup
- Life expectancy to 100 million operations
- High switching capacity, 60 W, 125 VA
- 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, CUR file E43203



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C)
<b>Ratings</b>	Resistive load: Max. switched power: 60 W or 125 VA Max. switched current: 2 A Max. switched voltage: 120 VDC or 240 VAC
<b>Rated Load UL</b>	2.0 A at 30 VDC 1.0 A at 125 VAC
<b>Material</b>	Silver nickel, gold plated
<b>Resistance</b>	< 50 milliohms initially

### COIL

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

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>8</sup> 1 x 10 <sup>5</sup> at 2.0 A 30 VDC Res.
<b>Operate Time (typical)</b>	6 ms at nominal coil voltage
<b>Release Time (typical)</b>	4 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	1500 Vrms contact to coil 1000 Vrms between open contacts 1500 Vrms contact set to contact set
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature Operating</b>	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
<b>Storage</b>	-40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	1.5 mm DA at 10–55 Hz
<b>Shock</b>	50 g 11 ms 1/2 sine
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy
<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>	5 grams



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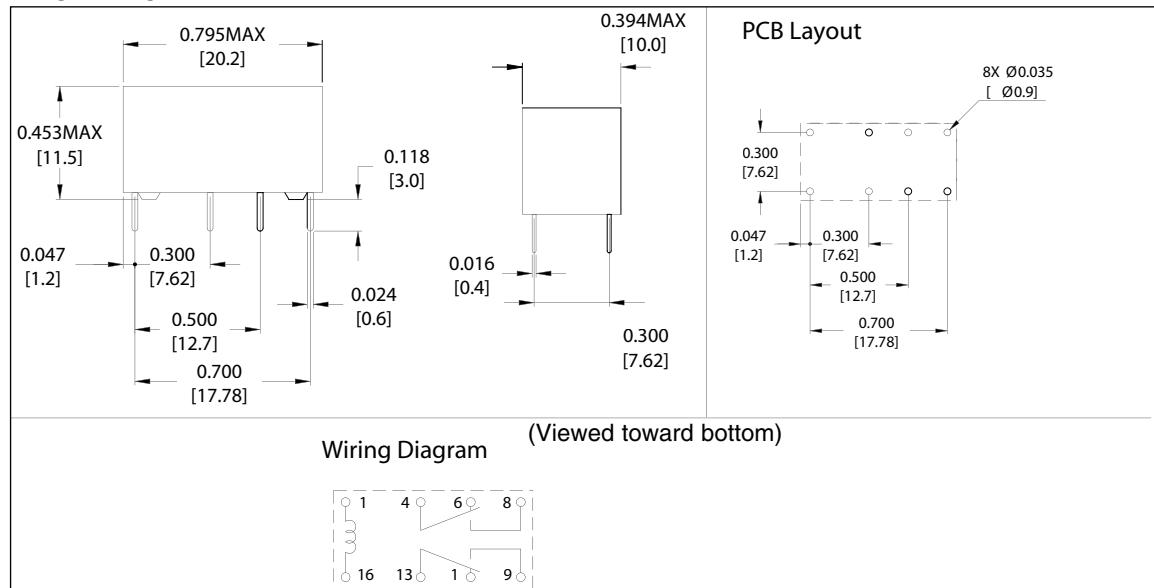
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## RELAY ORDERING DATA

STANDARD COIL SPECIFICATIONS				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	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 $\pm 10\%$	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
ULTRA-SENSITIVE COIL SPECIFICATIONS*				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	ORDER NUMBER
3	7.0	60	2.4	AZ8222-2C-3DSSE
4.5	10.4	135	3.2	AZ8222-2C-4.5DSSE
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

\*Contact to contact dielectric strength is 500Vrms.

## MECHANICAL DATA



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



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