

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 10 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

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

COIL

Power At Pickup Voltage (typical)	180 mW standard 100 mW sensitive 84 mW ultra-sensitive
Max. Continuous Dissipation	1.2 W 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 ⁷ 1 x 10 ⁵ at 2.0 A 30 VDC Res.
Operate Time (typical)	6 ms at nominal coil voltage
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1500 Vrms contact to coil 1000 Vrms between open contacts 1500 Vrms contact set to contact set
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 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	1.5 mm DA at 10–55 Hz
Shock	50 g 11 ms 1/2 sine
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	5 grams



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75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

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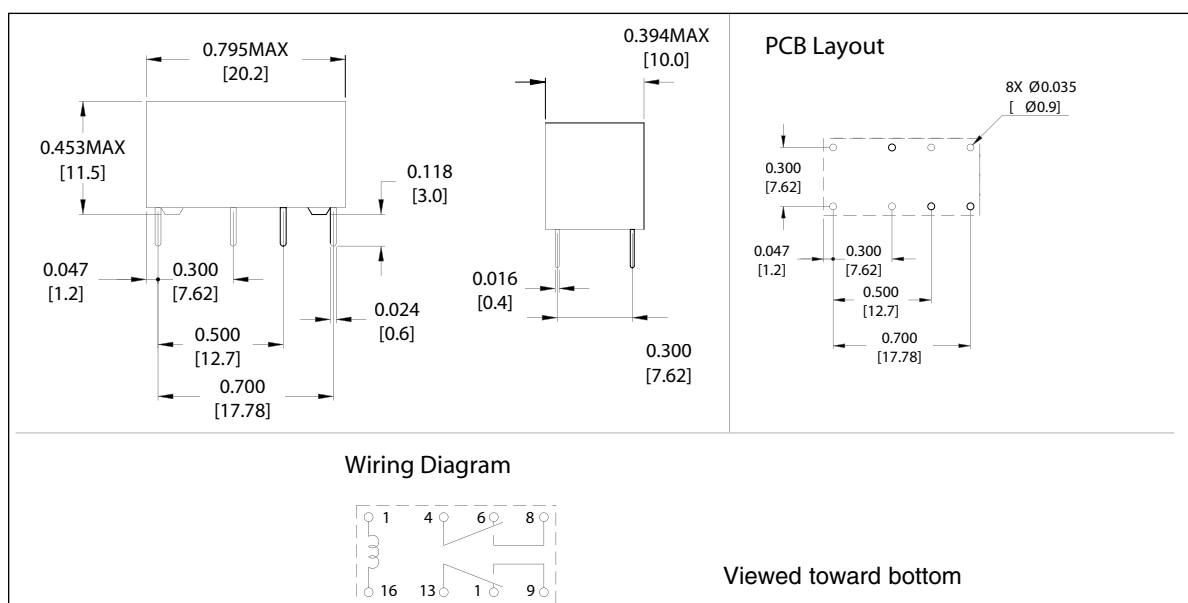
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RELAY ORDERING DATA

STANDARD COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
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				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
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*				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
3	7.0	60	2.3	AZ8222-2C-3DSSE
4.5	10.4	135	3.2	AZ8222-2C-4.5DSSE
5	11.5	167	3.8	AZ8222-2C-5DSSE
6	13.8	240	4.5	AZ8222-2C-6DSSE
9	20.8	540	6.8	AZ8222-2C-9DSSE
12	27.7	960	9.0	AZ8222-2C-12DSSE
15	34.6	1500	11.3	AZ8222-2C-15DSSE

* Contact to contact dielectric strength is 500 Vrms.

MECHANICAL DATA



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



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