

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



CONTACTS

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 ⁸ 1 x 10 ⁵ 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	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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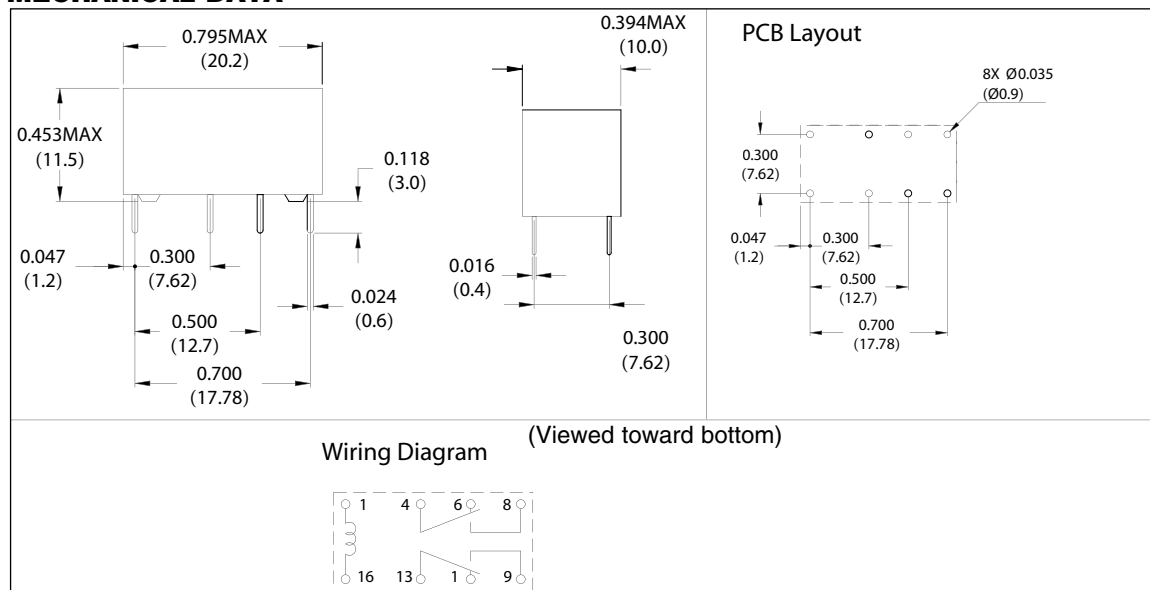
AZ8222

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	2.4	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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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.