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 1×10^7 1×10^5 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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12/17/03W

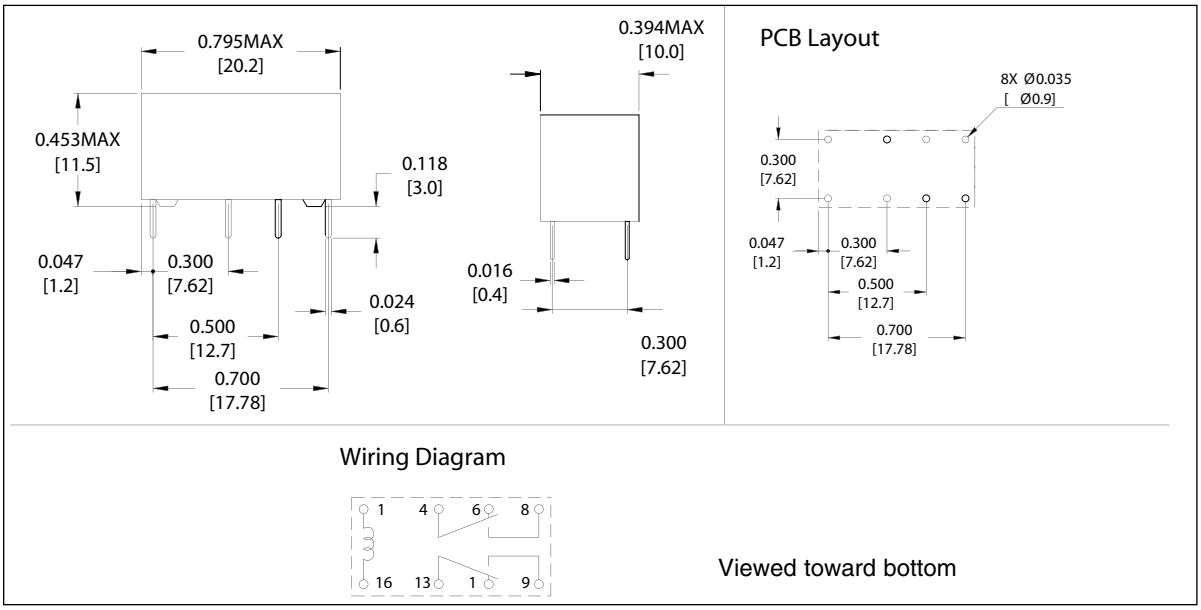
AZ8222

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
ULTRA-SENSITIVE COIL SPECIFICATIONS*				
Nominal Coil VDC	**Max. Continuous VDC**	**Coil Resistance ± 10%**	**Must Operate VDC**	**ORDER NUMBER**
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: ± .010"

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