# 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:<br>Max. switched power: 60 W or 125 VA<br>Max. switched current: 2 A<br>Max. switched voltage: 120 VDC or 240 VAC |
| **Rated Load**<br>**UL** | 2.0 A at 30 VDC<br>1.0 A at 125 VAC |
| **Material** | Silver nickel, gold plated |
| **Resistance** | < 50 milliohms initially |

### COIL

| | |
|---|---|
| **Power** | |
| **At Pickup Voltage (typical)** | 180 mW standard<br>100 mW sensitive<br>84 mW ultra-sensitive |
| **Max. Continuous Dissipation** | 1.2 W at 20°C (68°F) |
| **Temperature Rise** | 34°C (61°F) standard<br>23°C (41°F) sensitive<br>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**<br>**Mechanical**<br>**Electrical** | Minimum operations<br>$1 \times 10^7$<br>$1 \times 10^5$ 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<br>(with no coil suppression) |
| **Dielectric Strength (at sea level for 1 min.)** | 1500 Vrms contact to coil<br>1000 Vrms between open contacts<br>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**<br>**Operating**<br><br><br>**Storage** | At nominal coil voltage<br>-40°C (-40°F) to 70°C (158°F) standard<br>-40°C (-40°F) to 80°C (176°F) sensitive<br>-40°C (-40°F) to 85°C (185°F) ultra-sensitive<br>-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

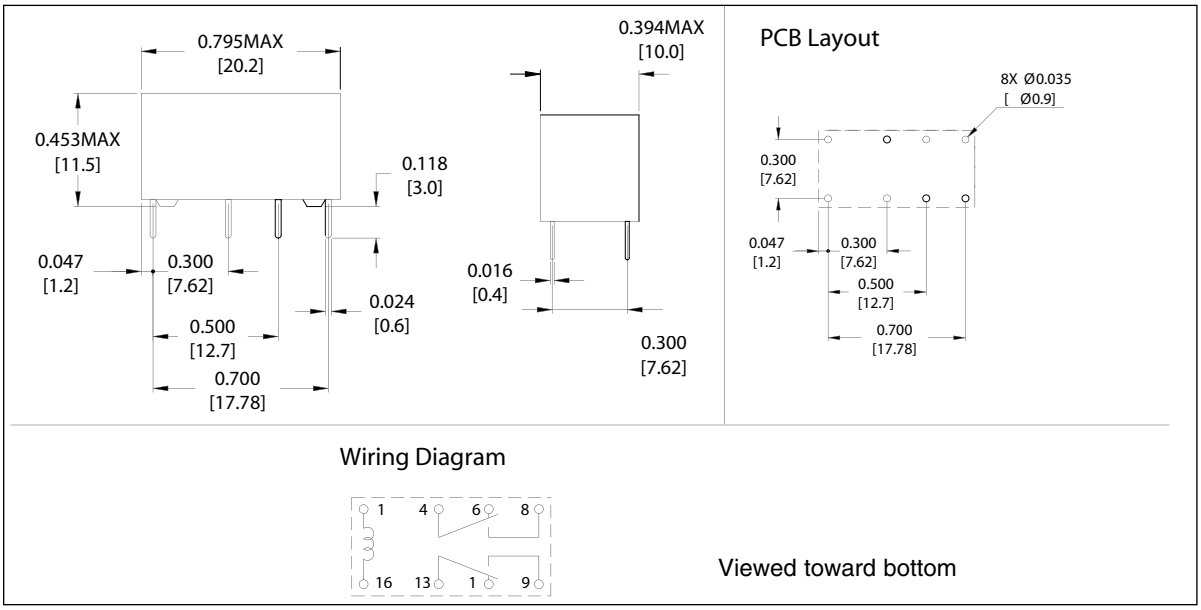
# AZ8222

## 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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