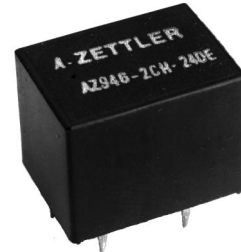


AZ946

MINIATURE PC BOARD RELAY

FEATURES

- Subminiature size
- High sensitivity, 288 mW pick up
- Coils to 24 VDC
- Epoxy sealed for automatic wave soldering
- Contacts rated at 1 or 5 Amps
- Life expectancy to 20 million operations
- Extremely low cost
- UL, CUR file E43203



CONTACTS

| | |
|---------------------|--|
| Arrangement | 2 Form C (DPDT) |
| Max. Ratings | Noninductive load: |
| Light Duty | Max. switched power: 30 W or 277 VA Max. switched current: 1 A Max. switched voltage: 150* VDC or 300 VAC UL Rating: 1 A at 30 VDC resistive 1 A at 277 VAC general use (100k cycles) |
| Medium Duty | Max. switched power: 150 W or 1385 VA Max. switched current: 5 A Max. switched voltage: 150* VDC or 300 VAC UL Rating: 5 A at 30 VDC resistive 5 A at 277 VAC general use (100k cycles) * If switching voltage is greater than 30 VDC special precautions must be taken. Please contact the factory |
| Material | Light Duty: Silver, gold plated Medium Duty: Silver Cadmium Oxide, gold plated |
| Resistance | Light Duty: 100 milliohms max. initially Medium Duty: 100 milliohms max. (6 V 1 A method) |

COIL

| | |
|------------------------------------|---|
| Power | |
| At Pickup Voltage (typical) | 384 mW standard 288 mW sensitive |
| Max. Continuous Dissipation | 1.2 W at 20°C (68°F) |
| Temperature Rise | 35°C (63°F) standard 30°C (54°F) sensitive |
| Max. Temperature | 105°C (221°F) |

GENERAL DATA

| | |
|--|---|
| Life Expectancy Mechanical Electrical | Minimum operations 2 x 10 ⁷ 1 x 10 ⁵ (at rated load) |
| Operate Time (typical) | 5 ms at nominal coil voltage |
| Release Time (typical) | 5 ms at nominal coil voltage (with no coil suppression) |
| Dielectric Strength (at sea level for 1 min.) | 1000 Vrms coil to contact 750 Vrms between open contacts 1000 Vrms contact set to contact set |
| Insulation Resistance | 100 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 -10°C (14°F) to 60°C (140°F) standard -10°C (14°F) to 70°C (158°F) sensitive -10°C (14°F) to 105°C (221°F) |
| Vibration | 0.062" (1.5 mm) DA at 5–55 Hz |
| Shock | 10 g |
| Enclosure | P.B.T. polyester |
| Terminals | Tinned copper alloy, P.C. |
| 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 | 12 grams |

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.
4. Unsealed relays should not be dipped cleaned

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AZ946

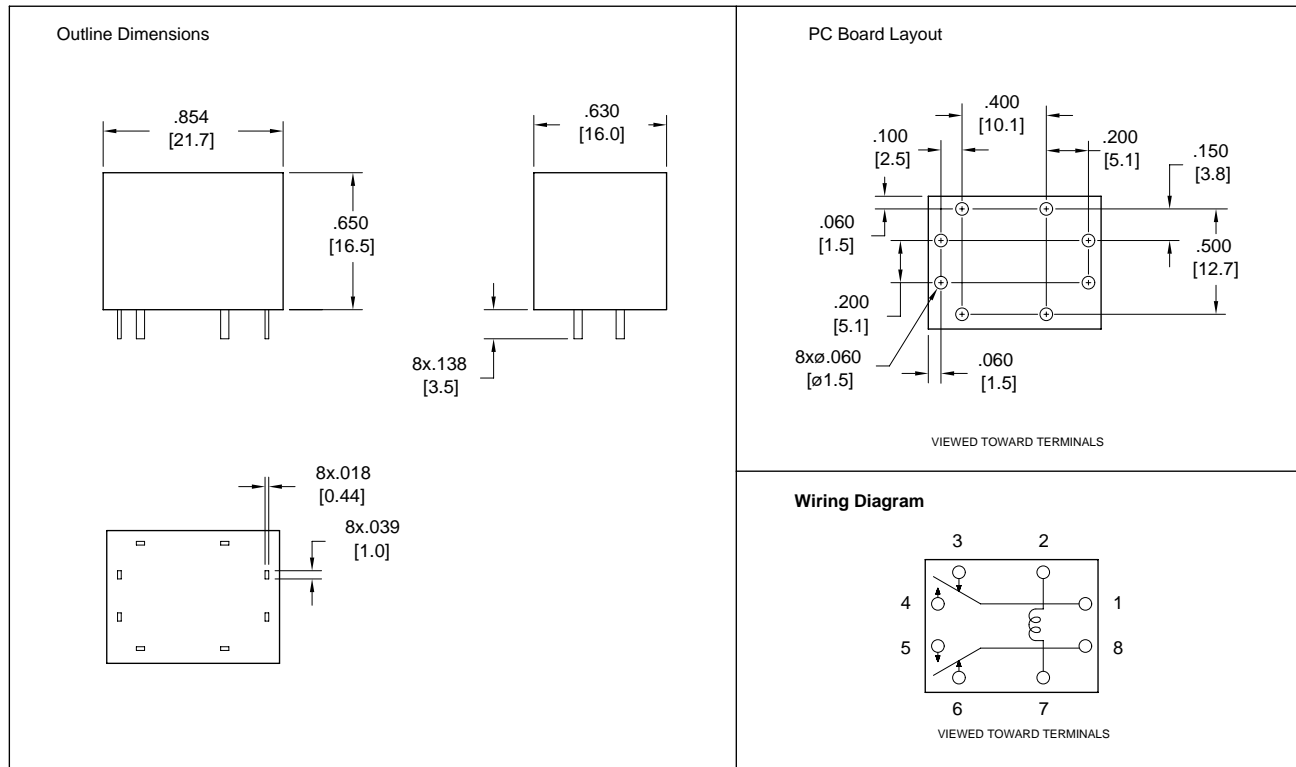
RELAY ORDERING DATA

| COIL SPECIFICATIONS - Medium Duty (5 Amp Contact) | | | | | |
|---|------------------|---------------------|----------------------------|---------------|----------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | ORDER NUMBER | |
| | | | | Unsealed | Sealed |
| 3 | 2.4 | 4.2 | 15 | AZ946-2CH-3D | AZ946-2CH-3DE |
| 5 | 4.0 | 7.1 | 42 | AZ946-2CH-5D | AZ946-2CH-5DE |
| 6 | 4.8 | 8.4 | 60 | AZ946-2CH-6D | AZ946-2CH-6DE |
| 9 | 7.2 | 12.7 | 135 | AZ946-2CH-9D | AZ946-2CH-9DE |
| 12 | 9.6 | 16.9 | 240 | AZ946-2CH-12D | AZ946-2CH-12DE |
| 24 | 19.2 | 33.9 | 960 | AZ946-2CH-24D | AZ946-2CH-24DE |

RELAY ORDERING DATA

| COIL SPECIFICATIONS - Light Duty (1 Amp Contact) | | | | | |
|--|------------------|---------------------|----------------------------|---------------|----------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | ORDER NUMBER | |
| | | | | Unsealed | Sealed |
| 3 | 2.4 | 4.9 | 20 | AZ946-2C-3DS | AZ946-2C-3DSE |
| 5 | 4.0 | 8.2 | 56 | AZ946-2C-5DS | AZ946-2C-5DSE |
| 6 | 4.8 | 9.8 | 80 | AZ946-2C-6DS | AZ946-2C-6DSE |
| 9 | 7.2 | 14.7 | 180 | AZ946-2C-9DS | AZ946-2C-9DSE |
| 12 | 9.6 | 19.6 | 320 | AZ946-2C-12DS | AZ946-2C-12DSE |
| 24 | 19.2 | 39.0 | 1280 | AZ946-2C-24DS | AZ946-2C-24DSE |

MECHANICAL DATA



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

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