

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) * Note: 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)

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	At nominal coil voltage -10°C (14°F) to 60°C (140°F) standard -10°C (14°F) to 70°C (158°F) sensitive
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

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)

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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This product specification to be used only together with the application notes which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

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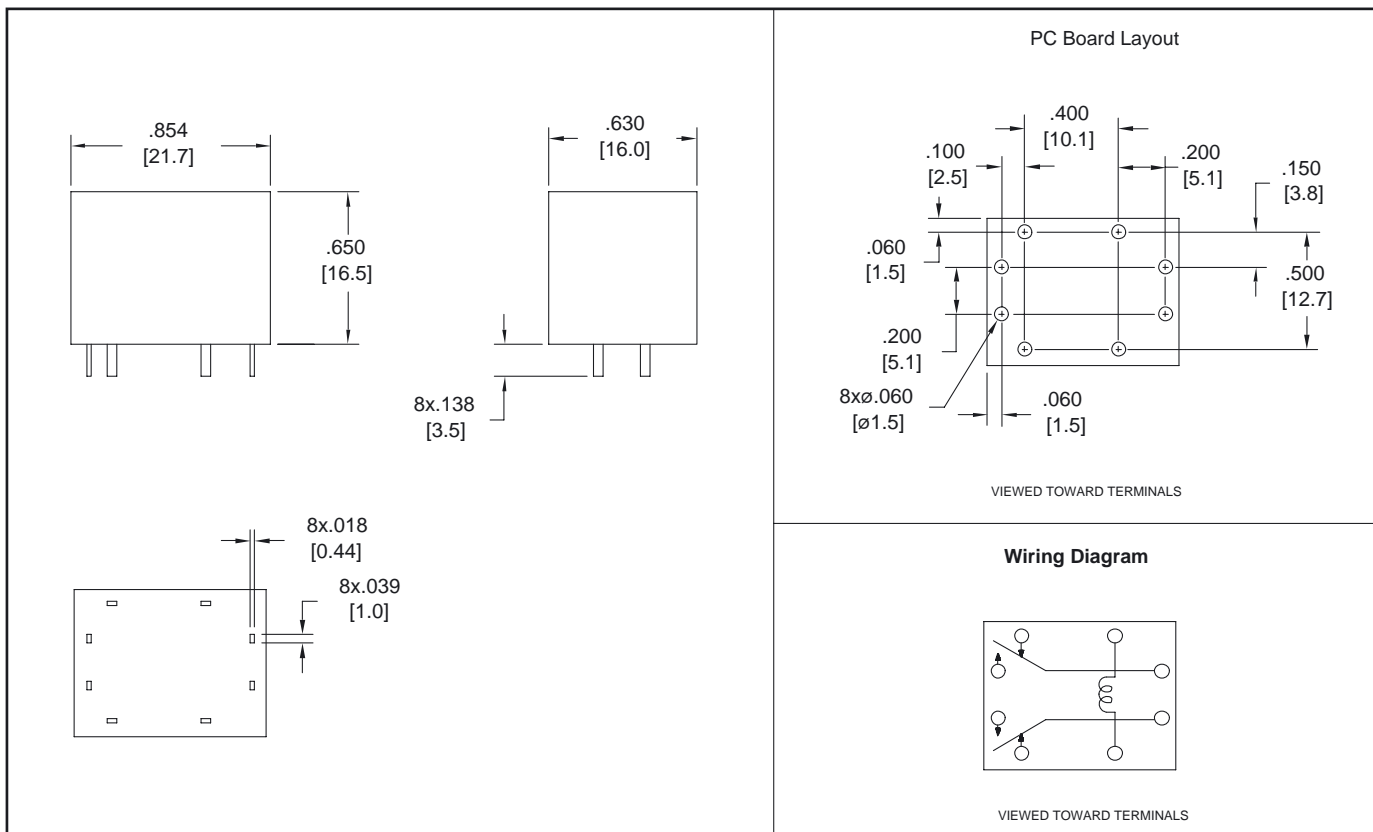
RELAY ORDERING DATA

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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