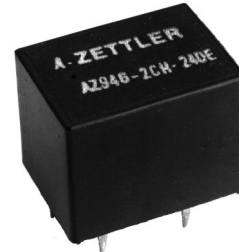


# AZ946

## 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

<b>Arrangement</b>	2 Form C (DPDT)
<b>Max. Ratings</b>	Noninductive load:
<b>Light Duty</b>	Max. switched power: 30 W or 277 VA Max. switched current: 1 A Max. switched voltage: 150* VDC or 300 VAC <b>UL Rating:</b> 1 A at 30 VDC resistive 1 A at 277 VAC general use (100k cycles)
<b>Medium Duty</b>	Max. switched power: 150 W or 1385 VA Max. switched current: 5 A Max. switched voltage: 150* VDC or 300 VAC <b>UL Rating:</b> 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
<b>Material</b>	Light Duty: Silver, gold plated Medium Duty: Silver Cadmium Oxide, gold plated
<b>Resistance</b>	Light Duty: 100 milliohms max. initially Medium Duty: 100 milliohms max. (6 V 1 A method)

### COIL

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

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 2 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> (at rated load)
<b>Operate Time (typical)</b>	5 ms at nominal coil voltage
<b>Release Time (typical)</b>	5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength</b> (at sea level for 1 min.)	1000 Vrms coil to contact 750 Vrms between open contacts 1000 Vrms contact set to contact set
<b>Insulation Resistance</b>	100 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b>  <b>Storage</b>	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)
<b>Vibration</b>	0.062" (1.5 mm) DA at 5–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	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

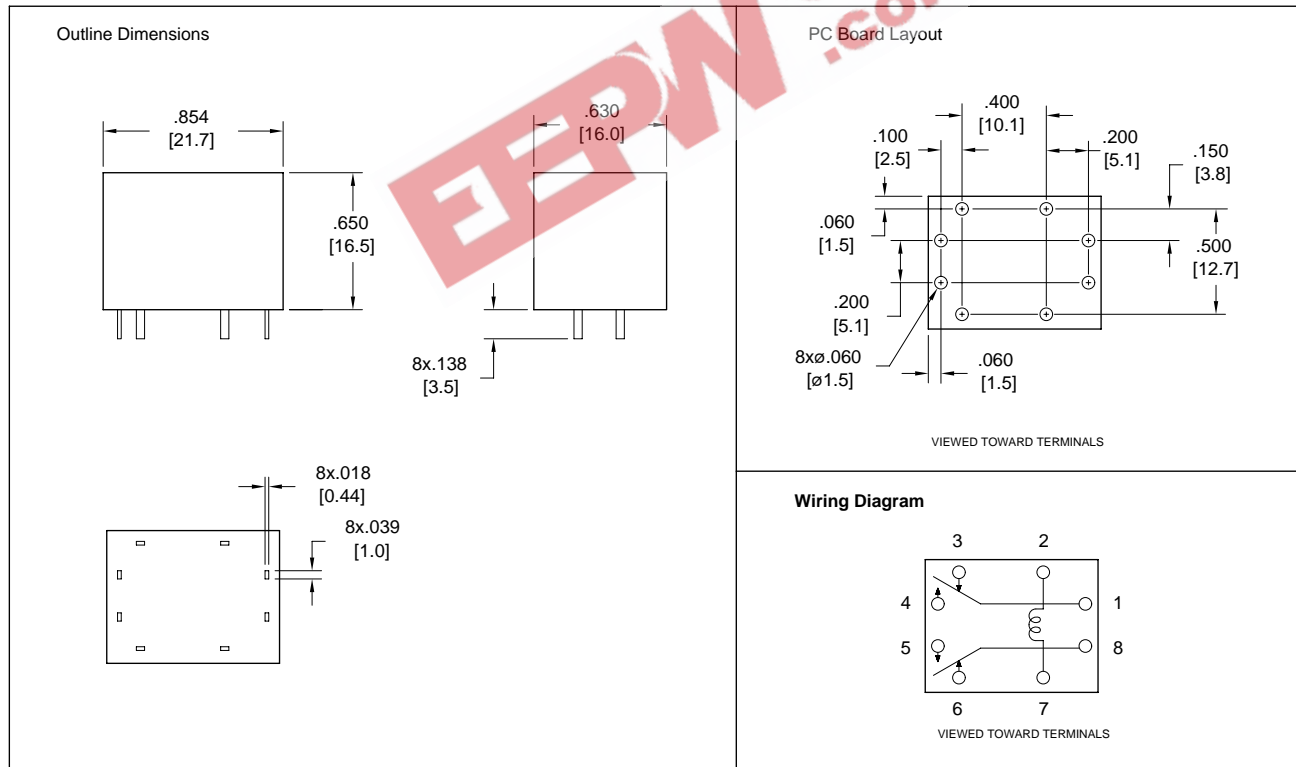
## RELAY ORDERING DATA

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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