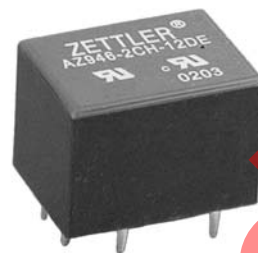


# AZ946

## MINIATURE PC BOARD RELAY

### FEATURES

- Subminiature size
- Coils to 48VDC
- Epoxy sealed for automatic wave soldering
- Contacts rated at 6 Amps
- Life expectancy to 10 million operations
- Extremely low cost
- UL, CUR file E43203



### CONTACTS

Arrangement	2 Form C (DPDT)
Max. Ratings	Noninductive load: Max. switched power: 180W or 1385VA Max. switched current: 6A Max. switched voltage: 150VDC* or 300VAC <b>UL Rating:</b> 5A at 30VDC resistive, 100k cycles 5A at 277VAC general use (100k cycles) 6A at 30VDC resistive 6A at 125VAC resistive  * If switching voltage is greater than 30VDC special precautions must be taken. Please contact the factory
Material	Silver Cadmium Oxide, gold plated
Resistance	100 milliohms max. (6V, 1A method)

### COIL

Power	
At Pickup Voltage (typical)	384mW
Max. Continuous Dissipation	1.2W at 20°C (68°F)
Temperature Rise	35°C (63°F)
Max. Temperature	105°C (221°F)

### GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 5A, 277VAC Res.
Operate Time (typical)	5ms at nominal coil voltage
Release Time (typical)	5ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1000Vrms coil to contact 750Vrms between open contacts 1000Vrms 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 -40°C (14°F) to 70°C (140°F) -40°C (14°F) to 105°C (221°F)
Vibration	0.062" 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

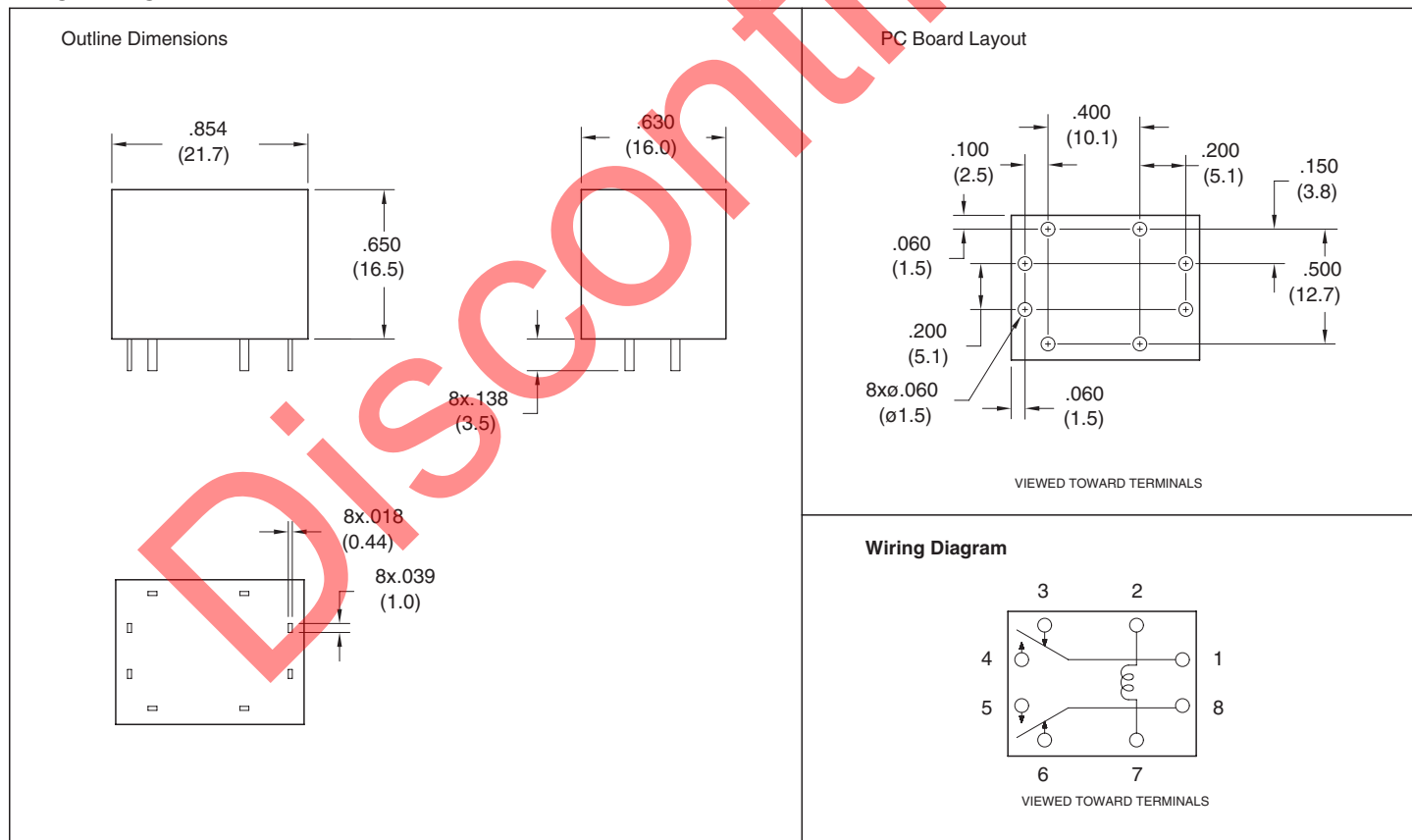
1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.
4. Unsealed relays should not be dipped cleaned

**AMERICAN ZETTLER, INC.**

## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Unsealed	Sealed
3	2.4	3.9	15	AZ946-2CH-3D	AZ946-2CH-3DE
5	4.0	7.5	42	AZ946-2CH-5D	AZ946-2CH-5DE
6	4.8	7.8	60	AZ946-2CH-6D	AZ946-2CH-6DE
9	7.2	11.7	135	AZ946-2CH-9D	AZ946-2CH-9DE
12	9.6	15.6	240	AZ946-2CH-12D	AZ946-2CH-12DE
24	19.2	31.2	960	AZ946-2CH-24D	AZ946-2CH-24DE
48	38.4	62.4	3840	AZ946-2CH-48D	AZ946-2CH-48DE

## MECHANICAL DATA



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