

AZ946

MINIATURE PC BOARD RELAY

FEATURES

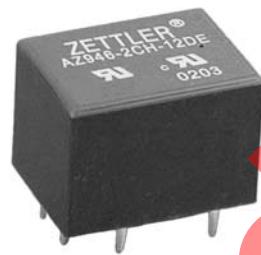
- Subminiature size
- Coils to 48VDC
- Epoxy sealed for automatic wave soldering
- Contacts rated at 6 Amps
- Life expectancy to 10 million operations
- Extremely low cost
- UL, CUR file E43203

CONTACTS

Arrangement	2 Form C (DPDT)
Max. Ratings	<p>Noninductive load:</p> <p>Max. switched power: 180W or 1385VA</p> <p>Max. switched current: 6A</p> <p>Max. switched voltage: 150VDC* or 300VAC</p> <p>UL Rating: 5A at 30VDC resistive, 100k cycles 5A at 277VAC general use (100k cycles)</p> <p>6A at 30VDC resistive 6A at 125VAC resistive</p> <p>* If switching voltage is greater than 30VDC special precautions must be taken. Please contact the factory</p>
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 1×10^7 1×10^5 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

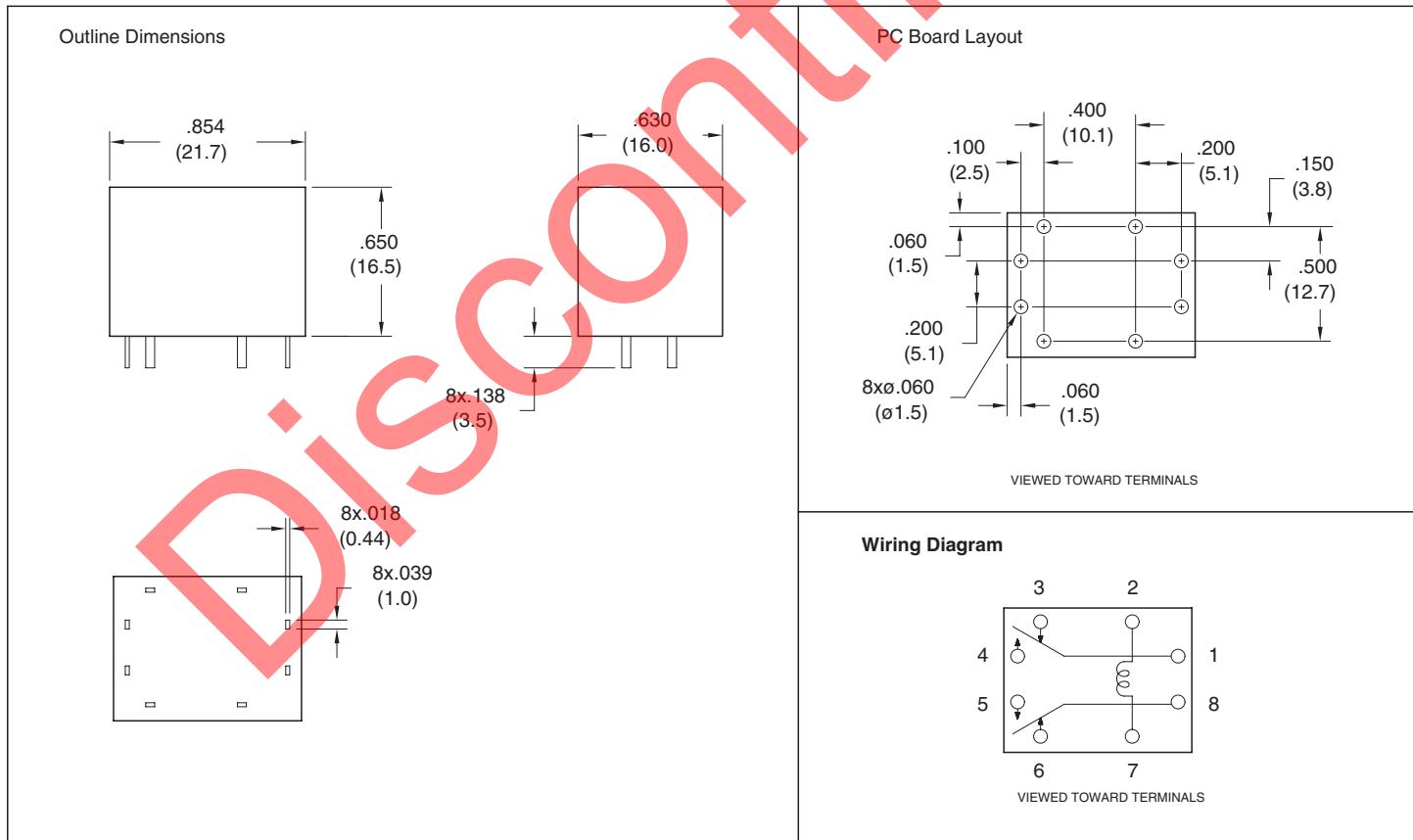
1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.
4. Unsealed relays should not be dipped cleaned

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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: $\pm .010"$

AMERICAN ZETTLER, INC.

2/01/16

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.