## **AZ946**\_

# MINIATURE PC BOARD RELAY

#### **FEATURES**

- Subminiature size
- Coils to 48 VDC
- · Epoxy sealed for automatic wave soldering
- Contacts rated at 6 Amps
- Life expectancy to 20 million operations
- Extremely low cost
- UL, CUR file E43203



## **CONTACTS**

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

#### COIL

Power			
At Pickup Voltage (typical)	384 mW		
Max. Continuous Dissipation	1.2 W 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 2 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> 5 A 277 VAC Res.		
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) -10°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.

www.azettler.com

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#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS							
Nominal Coil	Must Operate	Max. Continuous	Coil Resistance	ORDER NUMBER			
VDC	VDC	VDC	±10%	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		
48	38.4	67.8	3840	AZ946-2CH-48D	AZ946-2CH-48DE		

## **MECHANICAL DATA**





