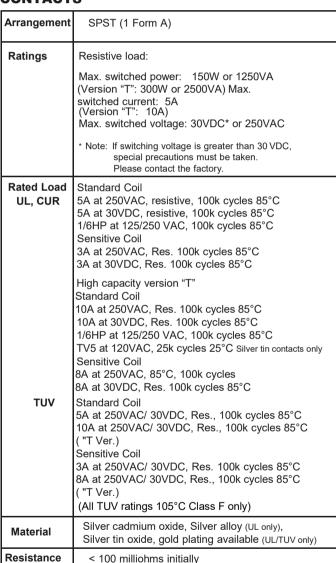
### **AZ7709**

# SPDT SUBMINIATURE POWER RELAY

#### **FEATURES**

- 4kV dielectric strength
- Proof tracking index (PTI/CTI) 250
- 5 Amp switching capability (version "T" 10 Amp)
- Epoxy sealed version available
- · Class F insulation available
- UL, CUR file E365652
- TUV B170288793007

#### **CONTACTS**



#### 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.



#### **GENERAL DATA**

Life Expectancy	Minimum operations		
Mechanical	1 x 10 <sup>7</sup>		
Electrical	1 x 10 <sup>5</sup>		
Operate Time (max.)	8ms at nominal coil voltage		
Release Time (max.)	4ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	4000Vrms coil to contact 1000Vrms between open contacts		
Insulation Resistance	1000 megohms min. at 20°C, 500VDC, 50% RH		
Dropout	Greater than 5% of nominal coil voltage		
Ambient Temperature	At nominal coil voltage		
Operating	-40°C (-40°F) to 85°C (185°F)		
	-40°C (-40°F) to 105°C (221°F) Class F only		
Storage	-40°C (-40°F) to 105°C (221°F)		
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 (approx.)	6 grams		

#### COIL

Power			
At Pickup Voltage (typical)	.220W (standard coil) .113W (sensitive coil)		
Max. Continuous Dissipation	.760 W at 20°C (68°F) ambient		
Temperature Rise	41°C (74°F) at nominal coil voltage, standard 22°C (40°F) at nominal coil voltage, sensitive		
Temperature	Max. 105°C (221°F) Standard Max. 155°C (311°F) available		

AMERICAN ZETTLER, INC.

## **AZ7709**

#### **RELAY ORDERING DATA**

TANDARD COIL						
COIL SPECIFICATIONS				ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm	Form A (SPST)		
3	2.1	3.9	20 ± 10%	AZ7709-1A-3D		
5	3.5	6.5	55 ± 10%	AZ7709-1A-5D		
6	4.2	7.8	80 ± 10%	AZ7709-1A-6D		
9	6.3	11.7	180 ± 10%	AZ7709-1A-9D		
12	8.4	15.6	320 ± 10%	AZ7709-1A-12D		
18	12.6	23.4	720 ± 10%	AZ7709-1A-18D		
24	16.8	31.2	1,280 ± 10%	AZ7709-1A-24D		
48	33.6	62.4	5,120 ± 15%	AZ7709-1A-48D		

SENSITIVE COIL						
	COIL SPE	ORDER NUMBER*				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	Form A (SPST)		
3	2.25	3.9	45 ± 10%	AZ7709-1A-3DS		
5	3.75	6.5	125 ± 10%	AZ7709-1A-5DS		
6	4.50	7.8	180 ± 10%	AZ7709-1A-6DS		
9	6.75	11.7	400 ± 10%	AZ7709-1A-9DS		
12	9.00	15.6	720 ± 10%	AZ7709-1A-12DS		
18	13.50	23.4	1,620 ± 10%	AZ7709-1A-18DS		
24	18.00	31.2	2,800 ± 10%	AZ7709-1A-24DS		

<sup>\*</sup> Standard contact material Silver cadmium oxide contacts.

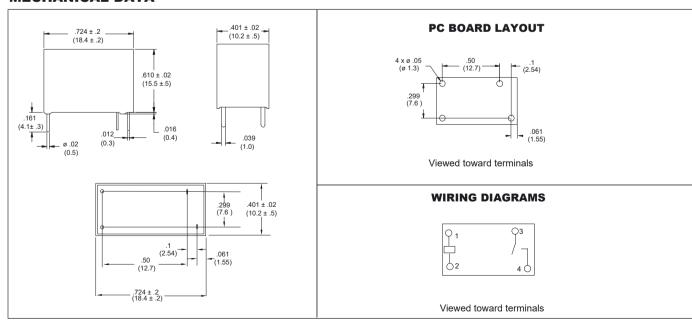
Substitute "AZ7709T" in place of "AZ7709" for high capacity version. Substitute "1AB" in place of "1A" for Silver alloy contacts. (UL only) Substitute "1AE" in place of "1A" for Silver tin oxide contacts.

Add suffix "E" at the end of order number for sealed version.

Add suffix "G" at the end of order number for gold plated contacts. (UL/TUV only)

Add suffix "F" at the end of the model number for Class F 155°C Version.

#### **MECHANICAL DATA**



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

### AMERICAN ZETTLER, INC.

8/29/18