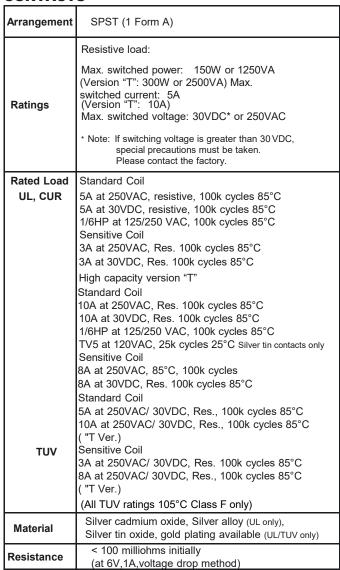
## **AZ7709**

# SPDT SUBMINIATURE POWER RELAY

#### **FEATURES**

- 4 kV 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 B0887930007

#### **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 Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 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.)	4000 Vrms coil to contact 1000 Vrms between open ontacts		
Insulation Resistance	1000 MΩ 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	220 mW (standard coil)			
At Pickup Voltage	113 mW (sensitive coil)			
(typical)	760 mW at 20°C (68°F) ambient			
Max. Continuous				
Dissipation	41°C (74°F) at nominal coil voltage, standal 22°C (40°F) at nominal coil voltage, sensitiv			
Temperature Rise	22 O (40 T) at Hommal doll voltage, sensitive			
Temperature	Max. 105°C (221°F) Standard			
	Max. 155°C (311°F) available			



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## AZ7709

#### **RELAY ORDERING DATA**

	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)

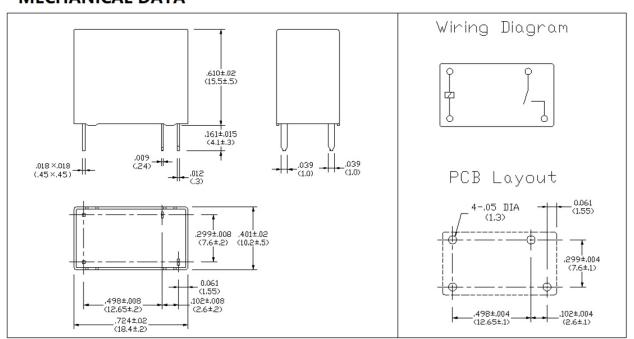
Substitute "1AE" in place of "1A" for Silver tin oxide contacts.

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"

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