

# AZ954

## SUBMINIATURE POWER RELAY

### FEATURES

- Subminiature size for high density packaging
- Coil sensitivity to 114mW
- Extremely low cost
- Coils to 24VDC
- Epoxy sealed versions available
- 2 Amp contacts
- Class B insulation standard
- Life expectancy to 10 million operations
- UL, CUR file E43203

### CONTACTS

Arrangement	SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 30W or 240VA Max. switched current: 2A Max. switched voltage: 150VDC* or 300VAC UL Rating: 2A at 125VAC General Use 1A at 240VAC General Use 1A at 30VDC Resistive
Material	Silver nickel, gold plated
Resistance	< 100 milliohms initially

### COIL

Power	
At Pickup Voltage (typical)	0.45W coil: 253mW 0.36W coil: 203mW 0.20W coil: 114mW
Max Continuous Dissipation	1.0W at 20°C (68°F) ambient
Temperature Rise	At nominal coil voltage: 0.45W: 54°C (97°F) 0.36W: 44°C (79°F) 0.2W: 30°C (54°F)
Max. Temperature	130°C (266°F)

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Other coil resistances and sensitivities available upon request.
4. Specifications subject to change without notice.

DISCONTINUED



### GENERAL DATA

Life Expectancy	Minimum operations Mechanical 1 x 10 <sup>7</sup> Electrical 1 x 10 <sup>5</sup> at 2A 120VAC Res.
Operate Time (typical)	5ms at nominal coil voltage
Release Time (typical)	1ms at nominal coil voltage (with no coil suppressions)
Dielectric Strength (at sea level for 1 min.)	1250Vrms coil to contact 750Vrms between open contacts
Insulation Resistance	100 megohms min. at 20°C, 500 VDC
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage 0.45W: -25°C (-13°F) to 70°C (158°F) 0.36W: -25°C (-13°F) to 85°C (185°F) 0.2W: -25°C (-13°F) to 95°C (203°F) Storage -25°C (-13°F) to 130°C (266°F)
Vibration	0.062" DA at 10–55Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy
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	5 grams

**AMERICAN ZETTLER, INC.**

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## RELAY ORDERING DATA

0.45 W COIL				ORDER NUMBER*	
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	ORDER NUMBER*	
3	3.6	20	2.25	AZ954X-1C-3D	AZ954Y-1C-3D
5	6.0	56	3.75	AZ954X-1C-5D	AZ954Y-1C-5D
6	7.2	80	4.50	AZ954X-1C-6D	AZ954Y-1C-6D
9	10.8	180	6.75	AZ954X-1C-9D	AZ954Y-1C-9D
12	14.4	320	9.0	AZ954X-1C-12D	AZ954Y-1C-12D
24	28.8	1280	18.0	AZ954X-1C-24D	AZ954Y-1C-24D

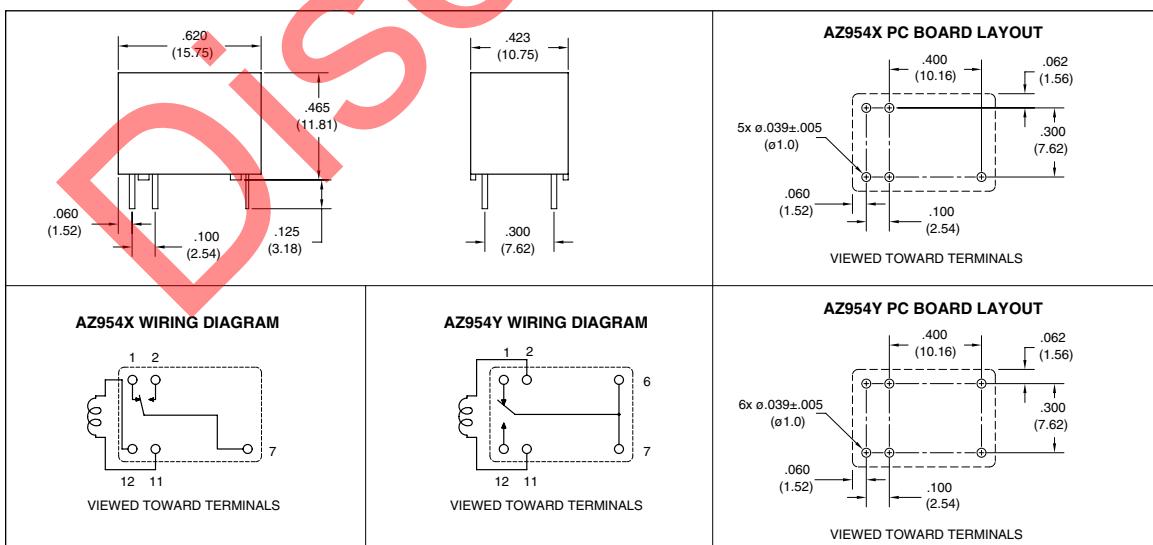
0.36 W COIL				ORDER NUMBER*	
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	ORDER NUMBER*	
3	5.0	25	2.25	AZ954X-1C-3DM	AZ954Y-1C-3DM
5	8.4	70	3.75	AZ954X-1C-5DM	AZ954Y-1C-5DM
6	10	100	4.50	AZ954X-1C-6DM	AZ954Y-1C-6DM
9	15	225	6.75	AZ954X-1C-9DM	AZ954Y-1C-9DM
12	20	400	9.0	AZ954X-1C-12DM	AZ954Y-1C-12DM
24	40	1600	18.0	AZ954X-1C-24DM	AZ954Y-1C-24DM

0.2 W COIL				ORDER NUMBER*	
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	ORDER NUMBER*	
3	6.7	45	2.25	AZ954X-1C-3DS	AZ954Y-1C-3DS
5	11	120	3.75	AZ954X-1C-5DS	AZ954Y-1C-5DS
6	13.4	180	4.50	AZ954X-1C-6DS	AZ954Y-1C-6DS
9	20	400	6.75	AZ954X-1C-9DS	AZ954Y-1C-9DS
12	26.5	700	9.0	AZ954X-1C-12DS	AZ954Y-1C-12DS
24	59.9	2800	18.0	AZ954X-1C-24DS	AZ954Y-1C-24DS

\* Add suffix "E" for epoxy sealed version.

## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm 0.010"$

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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.