

# 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

<b>Arrangement</b>	SPDT (1 Form C)
<b>Ratings</b>	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
<b>Material</b>	Silver nickel, gold plated
<b>Resistance</b>	< 100 milliohms initially

### COIL

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

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 2A 120VAC Res.
<b>Operate Time (typical)</b>	5ms at nominal coil voltage
<b>Release Time (typical)</b>	1ms at nominal coil voltage (with no coil suppressions)
<b>Dielectric Strength (at sea level for 1 min.)</b>	1250Vrms coil to contact 750Vrms between open contacts
<b>Insulation Resistance</b>	100 megohms min. at 20°C, 500 VDC
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b>	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)
<b>Storage</b>	-25°C (-13°F) to 130°C (266°F)
<b>Vibration</b>	0.062" DA at 10–55Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	5 grams

**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

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# AZ954

## RELAY ORDERING DATA

0.45 W COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
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

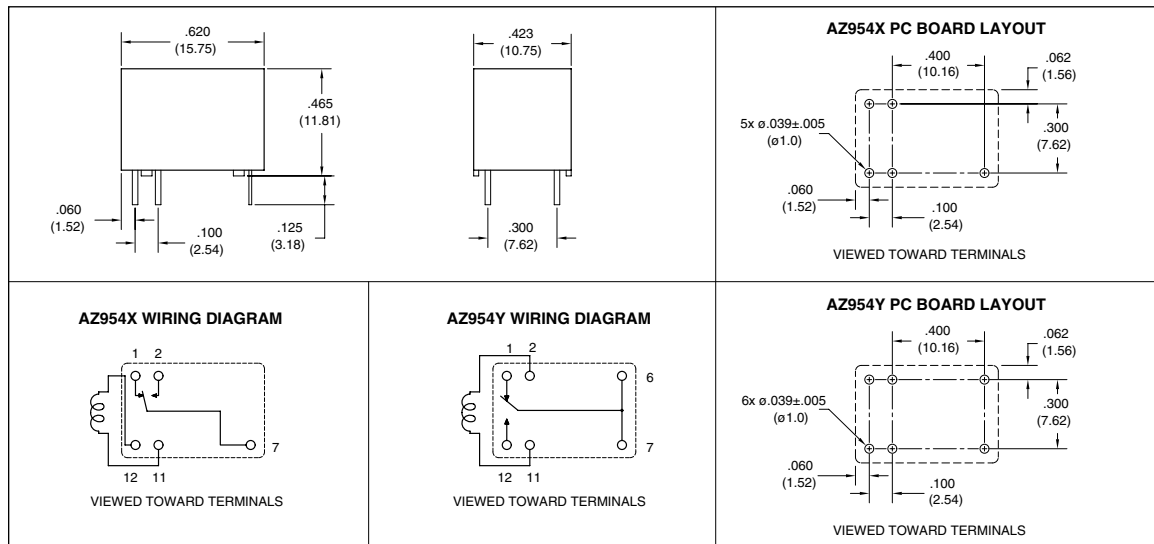
0.36 W COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
3	5.0	25	2.25	AZ954X-1C-3DM	AZ954Y-1C-3DM
5	8.4	70	3.75	AZ954X-1C-5DM	AZ954Y-1C-5DM
6	10	100	4.50	AZ954X-1C-6DM	AZ954Y-1C-6DM
9	15	225	6.75	AZ954X-1C-9DM	AZ954Y-1C-9DM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