

AZ954

SUBMINIATURE POWER RELAY

FEATURES

- Subminiature size for high density packaging
- Coil sensitivity to 114 mW
- Extremely low cost
- Coils to 24 VDC
- 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: 30 W or 250 VA Max. switched current: 2 A Max. switched voltage: 150 VDC* or 300 VAC UL Rating: 2 A at 125VAC General Use 1 A at 240 VAC General Use 1 A at 30 VDC Resistive
Material	Silver nickel, gold plated
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	0.45 W coil: 253 mW 0.36 W coil: 203 mW 0.2 W coil: 114 mW
Max Continuous Dissipation	1.0 W 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.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 2 A 120 VAC Res.
Operate Time (typical)	5 ms at nominal coil voltage
Release Time (typical)	1 ms at nominal coil voltage (with no coil suppressions)
Dielectric Strength (at sea level for 1 min.)	1250 Vrms coil to contact 750 Vrms 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 75°C (167°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	15 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	3.5 grams



AMERICAN ZETTLER, INC.

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5/16/05W

AZ954

RELAY ORDERING DATA

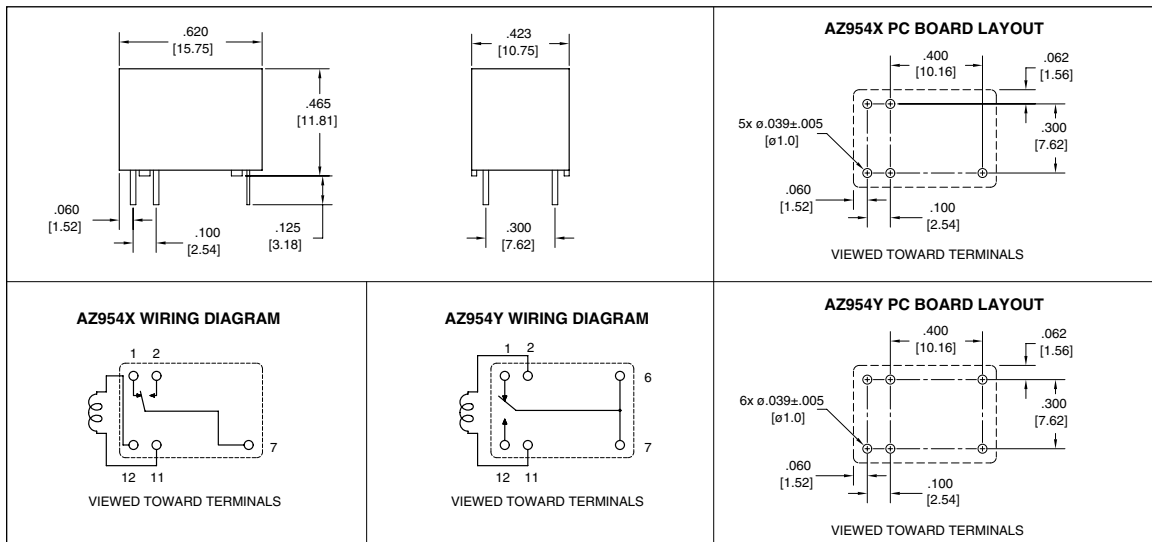
0.45 W COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
3	4.5	20	2.25	AZ954X-1C-3D	AZ954Y-1C-3D
5	7.5	56	3.75	AZ954X-1C-5D	AZ954Y-1C-5D
6	8.9	80	4.50	AZ954X-1C-6D	AZ954Y-1C-6D
9	13.4	180	6.75	AZ954X-1C-9D	AZ954Y-1C-9D
12	17.8	320	9.0	AZ954X-1C-12D	AZ954Y-1C-12D
24	35.7	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: ± 0.010 "



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