SUBMINIATURE POWER RELAY

FEATURES

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



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

COIL

Power			
At Pickup Voltage (typical)	0.45W coil: 253 mW 0.36W coil: 203 mW 0.2W coil: 114 mw		
Max Continuous Dissipation	0.8 W at 20°C (68°F) ambient 0.6 W at 40°C (104°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	105°C (221°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 rated load		
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 Storage	At nominal coil voltage 0.45W: -25°C (-13°F) to 55°C (131°F) 0.36W: -25°C (-13°F) to 65°C (167°F) 0.2W: -25°C (-13°F) to 75°C (167°F) -25°C (-13°F) to 105°C (221°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		

RELAY ORDERING DATA

MEDIUM DUTY RELAYS – 0.45 W COIL					
COIL SPECIFICATIONS					
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	ORDER NUMBER*	
3	4.0	20	2.25	AZ954X-1C-3D	AZ954Y-1C-3D
5	6.7	56	3.75	AZ954X-1C-5D	AZ954Y-1C-5D
6	8.0	80	4.50	AZ954X-1C-6D	AZ954Y-1C-6D
9	12.0	180	6.75	AZ954X-1C-9D	AZ954Y-1C-9D
12	16.0	320	9.0	AZ954X-1C-12D	AZ954Y-1C-12D
24	32.0	1280	18.0	AZ954X-1C-24D	AZ954Y-1C-24D

MEDIUM DUTY RELAYS - 0.36 W COIL

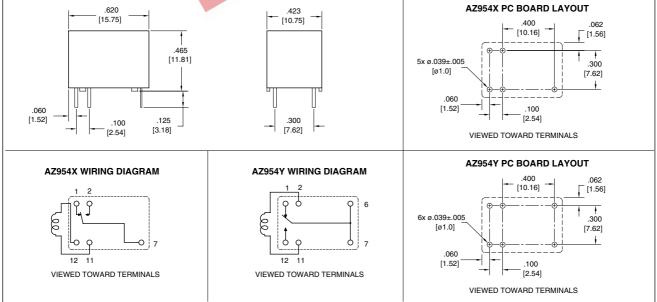
COIL SPECIFICATIONS					
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	ORDER NUMBER*	
3	4.5	25	2.25	AZ954X-1C-3DM	AZ954Y-1C-3DM
5	7.5	70	3.75	AZ954X-1C-5DM	AZ954Y-1C-5DM
6	8.9	100	4.50	AZ954X-1C-6DM	AZ954Y-1C-6DM
9	13.4	225	6.75	AZ954X-1C-9DM	AZ954Y-1C-9DM
12	17.8	400	9.0	AZ954X-1C-12DM	AZ954Y-1C-12DM
24	35.7	1600	18.0	AZ954X-1C-24DM	AZ954Y-1C-24DM

LIGHT DUTY RELAYS - 0.2 W COIL

COIL SPECIFICATIONS				- 30	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	ORDER NUMBER*	
3	6.0	45	2.25	AZ954X-1C-3DS	AZ954Y-1C-3DS
5	9.8	120	3. 75	AZ954X-1C-5DS	AZ954Y-1C-5DS
6	12.0	180	4.50	AZ954X-1C-6DS	AZ954Y-1C-6DS
9	17.8	400	6.75	AZ954X-1C-9DS	AZ954Y-1C-9DS
12	23.6	700	9.0	AZ954X-1C-12DS	AZ954Y-1C-12DS
24	47.3	2800	18.0	AZ954X-1C-24DS	AZ954Y-1C-24DS

^{*}Add suffix "E" for epoxy sealed version. Add suffix "B" for Class B or "F" for Class F insulation system.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.010"

ZETTLER electronics