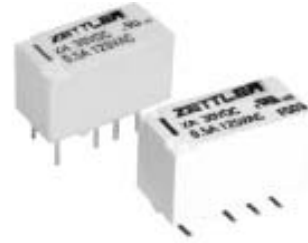


# AZ8462

## MICROMINIATURE POLARIZED RELAY

### FEATURES

- SMT and DIP mounting available
- Microminiature size: up to 50% less board area than previous generation telecom relays
- High dielectric and surge voltage:  
2.5 KV surge (per Bellcore TA-NWT-001089)  
1.5 KV surge (per FCC Part 68)  
1,000 Vrms, open contacts
- Monostable and bistable (latching) versions available
- Low power consumption: 79 mW pickup
- Stable contact resistance for low level signal switching
- Epoxy sealed for automatic wave soldering and cleaning
- UL, CUR file E43203
- All plastics meet UL94 V-0, 30 min. oxygen index



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C) Bifurcated crossbar contacts
<b>Ratings</b>	Resistive load: Max. switched power: 60 W or 62.5 VA Max. switched current: 2.0 A Max. switched voltage: 220 VDC or 250 VAC
<b>Rated Load UL/CUR</b>	0.5 A at 125 VAC general use 2.0 A at 30 VDC
<b>Material</b>	Silver nickel, gold plated
<b>Resistance</b>	< 50 milliohms initially at 6 V, 1 A

### COIL (Polarized)

<b>Power At Pickup Voltage (typical)</b>	79 mW (3–24 VDC) 152 mW (48 VDC)
<b>Max. Continuous Dissipation</b>	0.32 W at 20°C (68°F)
<b>Temperature Rise</b>	At 30° C (54°F) nominal coil voltage
<b>Temperature</b>	Max. 115°C (239°F)

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>8</sup> at 3Hz 1 x 10 <sup>5</sup> at 0.5 A, 125 VAC, Res. 1 x 10 <sup>5</sup> at 2.0 A, 30 VDC, Res.
<b>Operate Time (max)</b>	4 ms at nominal coil voltage
<b>Release Time (max)</b>	4 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level)</b>	See table
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Insulation Resistance</b>	10 <sup>9</sup> ohms min. at 25°C, 500 VDC, 50% RH
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 115°C (239°F)
<b>Vibration</b>	Operational, 3.3 mm DA, 10–55 Hz Non-destructive, 5.5 mm DA, 10–55 Hz
<b>Shock</b>	Operational, 75 g min., 11 ms Non-destructive, 100 g min., 11 ms
<b>Max. Solder Temp.</b>	260°C (500°F) for 5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	2 grams
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than “Must Operate” value.
3. Relay has fixed coil polarity.
4. Specifications subject to change without notice.



**AMERICAN ZETTLER, INC.**

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# AZ8462

## RELAY ORDERING DATA

STANDARD VERSION				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	THT (Through Hole)	SMT*
1.5	1.13	2.2	16.1	AZ8462-1.5	AZ8462S-1.5
3	2.25	4.5	64.3	AZ8462-3	AZ8462S-3
4.5	3.38	6.7	145	AZ8462-4.5	AZ8462S-4.5
5	3.75	7.5	178	AZ8462-5	AZ8462S-5
6	4.50	9	257	AZ8462-6	AZ8462S-6
9	6.75	13.5	579	AZ8462-9	AZ8462S-9
12	9.00	18	1028	AZ8462-12	AZ8462S-12
24	18.00	36	4114	AZ8462-24	AZ8462S-24
48	36.0	57.6	8533	AZ8462-48	AZ8462S-48

SINGLE COIL LATCHING VERSION					
Nominal Coil VDC	Set/Reset Voltage	Max. Continuous VDC	Coil Resistance $\pm 10\%$	THT (Through Hole)	SMT*
1.5	1.13	2.7	22.5	AZ8462P1-1.5	AZ8462P1S-1.5
3	2.25	5.4	90	AZ8462P1-3	AZ8462P1S-3
4.5	3.38	8.1	203	AZ8462P1-4.5	AZ8462P1S-4.5
5	3.75	9.0	250	AZ8462P1-5	AZ8462P1S-5
6	4.50	10.8	360	AZ8462P1-6	AZ8462P1S-6
9	6.75	16.2	810	AZ8462P1-9	AZ8462P1S-9
12	9.00	21.6	1440	AZ8462P1-12	AZ8462P1S-12
24	18.00	43.2	5760	AZ8462P1-24	AZ8462P1S-24

DUAL COIL LATCHING VERSION					
Nominal Coil VDC	Set/Reset Voltage	Max. Continuous VDC	Coil Resistance $\pm 10\%$	THT (Through Hole)	SMT*
1.5	1.13	2.2	11.2	AZ8462P2-1.5	AZ8462P2S-1.5
3	2.25	4.5	45	AZ8462P2-3	AZ8462P2S-3
4.5	3.38	6.7	101	AZ8462P2-4.5	AZ8462P2S-4.5
5	3.75	7.5	125	AZ8462P2-5	AZ8462P2S-5
6	4.50	9.0	180	AZ8462P2-6	AZ8462P2S-6
9	6.75	13.5	405	AZ8462P2-9	AZ8462P2S-9
12	9.00	18.0	720	AZ8462P2-12	AZ8462P2S-12
24	18.00	36.0	2280	AZ8462P2-24	AZ8462P2S-24

\*For Tape and Reel add suffix "TR." For SMT short leg add "1" after S.

### INITIAL DIELECTRIC STRENGTH (minimum)

### SURGE

	VRMS, 1 min.	Peak (V)	Rise Time ( $\mu$ S)	Decay Time* (9 $\mu$ S) (1/2 peak)
Between open contacts	1,000	1,500	10	160
Between contact sets	1,000	-	-	-
Between coil and contacts	1,500	2,500	2	10

\* Decay time measured from beginning of surge.



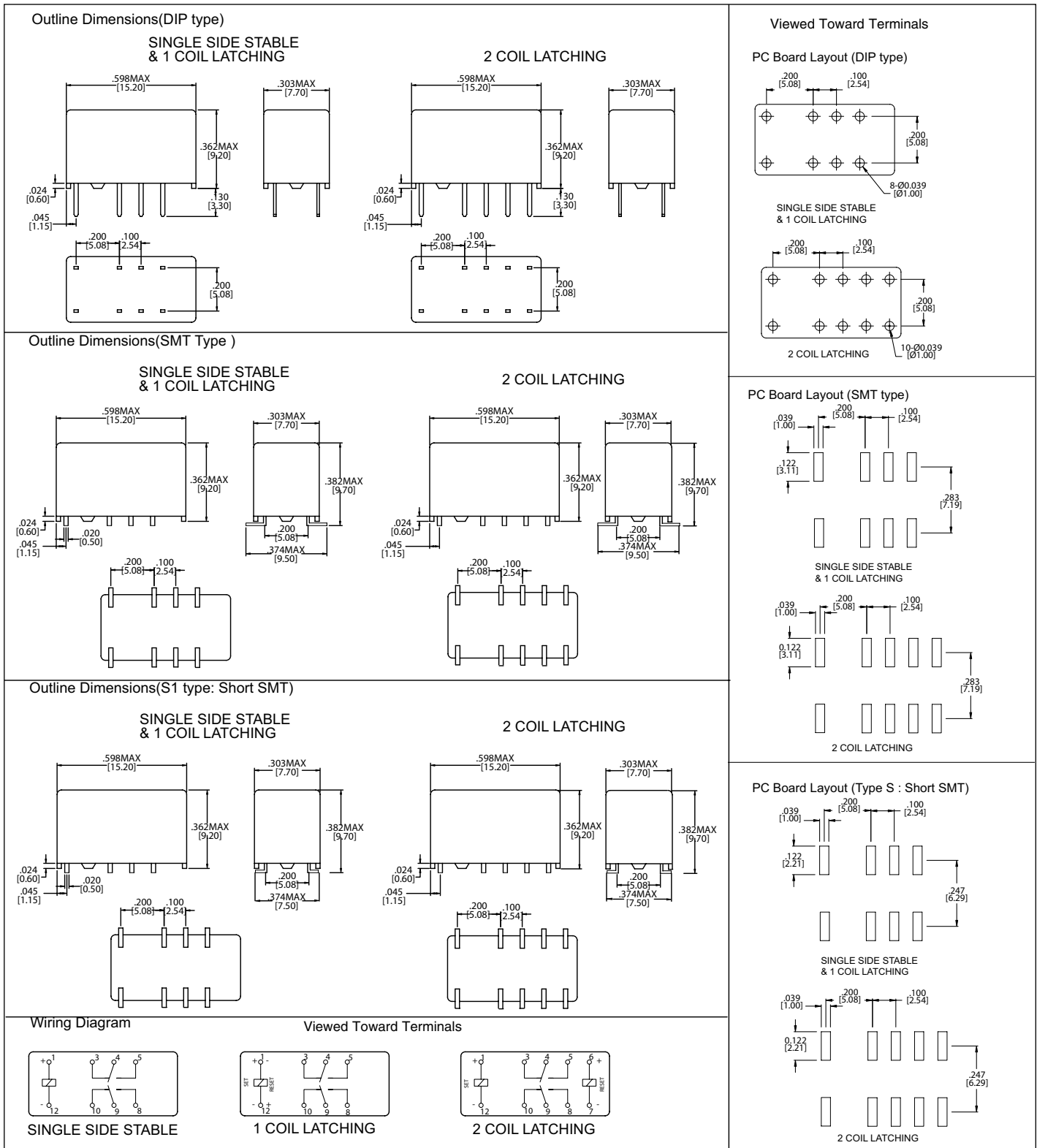
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Dimensions in inch with millimeters in brackets below. Tolerance:  $\pm .010$ "



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