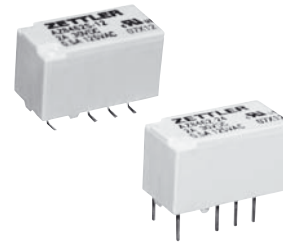


# AZ8462

## 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  
2,000 Vrms, coil to contacts
- Monostable and bistable (latching) versions available
- Minimum switching load 10 mV, 10  $\mu$ A
- Low power consumption: 79 mW pickup
- Stable contact resistance for low level signal switching
- Epoxy sealed
- UL, CUR file E43203



### 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 A Max. switched voltage: 220 VDC* or 250 VAC  * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL</b>	3 A at 30 VDC, resistive, 85°C, 100k cycles 2 A at 30 VDC resistive, 105°C, 100k cycles * 0.3 A at 110 VDC, resistive, 85°C, 100k cycles 0.5 A at 125 VAC, general use, 85°C  * not approved for 48 VDC coil or latching versions.
<b>Material</b>	Silver nickel gold plated
<b>Resistance</b>	< 50 milliohms initially

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	Monostable: 79 mW (1.5 - 24 VDC coil) Monostable: 152 mW (48 VDC coil)  Bistable latching (single coil): 57 mW Bistable latching (dual coil): 114 mW
<b>Max. Continuous Dissipation</b>	0.39 W at 20°C (68°F) ambient
<b>Temperature Rise (at nominal voltage)</b>	25°C (45°F) at nominal coil voltage
<b>Temperature</b>	Max. 155°C (311°F) Class F

### GENERAL DATA

<b>Life Expectancy</b>	Minimum operations 1 x 10 <sup>8</sup>
<b>Mechanical</b>	
<b>Electrical</b>	5 x 10 <sup>5</sup> at 1 A 30 VDC, resistive 1 x 10 <sup>5</sup> at 2 A 30 VDC, resistive 1 x 10 <sup>5</sup> at 0.5 A 120 VAC, resistive
<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 for 1 min.)</b>	2000 Vrms coil to contact 1500 Vrms between contact sets 1000 Vrms between open contacts
<b>Surge Voltage</b>	
<b>Coil to contacts</b>	2500 V (at 2/10 $\mu$ s)
<b>Open contacts</b>	1500 V (at 10/160 $\mu$ s)
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature Operating</b>	At nominal coil voltage -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	3.3 mm DA at 10–55 Hz
<b>Shock</b>	75 g operating, 100 g damage
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	see soldering profile
<b>Max. Solder Time</b>	see soldering profile
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	2.3 grams
<b>Packing unit in pcs</b>	40 per plastic tube 400 per reel

### 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.

**ZETTLER electronics GmbH** - A ZETTLER GROUP Company

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 office@ZETTLERelectronics.com  
fax: +49 89 800 97-200 www.ZETTLERelectronics.com

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2014-09-26

# AZ8462

## RELAY ORDERING DATA

SINGLE COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm$ 10	THT	SMT
1.5	1.13	2.2	16	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	4.5	9.0	257	AZ8462-6	AZ8462S-6
9	6.75	13.5	579	AZ8462-9	AZ8462S-9
12	9.0	18.0	1,028	AZ8462-12	AZ8462S-12
24	18.0	36.0	4,114	AZ8462-24	AZ8462S-24
48	36.0	57.6	8,533	AZ8462-48	AZ8462S-48

SINGLE COIL LATCHING					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Set/Reset VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm$ 10	THT	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	4.5	10.8	360	AZ8462P1-6	AZ8462P1S-6
9	6.75	16.2	810	AZ8462P1-9	AZ8462P1S-9
12	9.0	21.6	1,440	AZ8462P1-12	AZ8462P1S-12
24	18.0	43.2	5,760	AZ8462P1-24	AZ8462P1S-24

DUAL COIL LATCHING					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Set/Reset VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm$ 10	THT	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	4.5	9.0	180	AZ8462P2-6	AZ8462P2S-6
9	6.75	13.5	405	AZ8462P2-9	AZ8462P2S-9
12	9.0	18.0	720	AZ8462P2-12	AZ8462P2S-12
24	18.0	36.0	2,880	AZ8462P2-24	AZ8462P2S-24

\* Add suffix "1" after "S" for SMT short terminals (available for SMT version only).

Add suffix "TR" at the end of order number for Tape and Reel packing (available for SMT version only).

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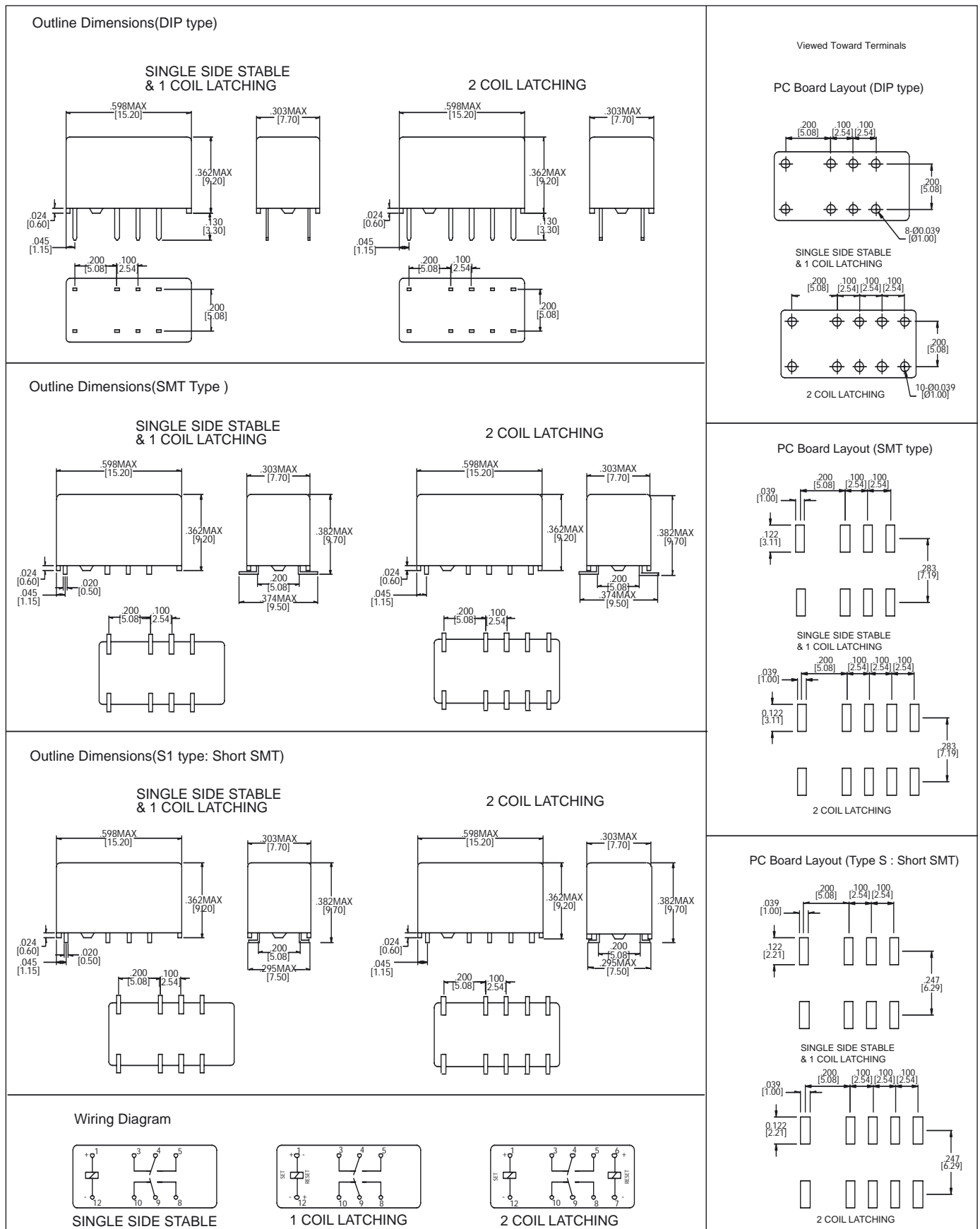
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# AZ8462

## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010''$

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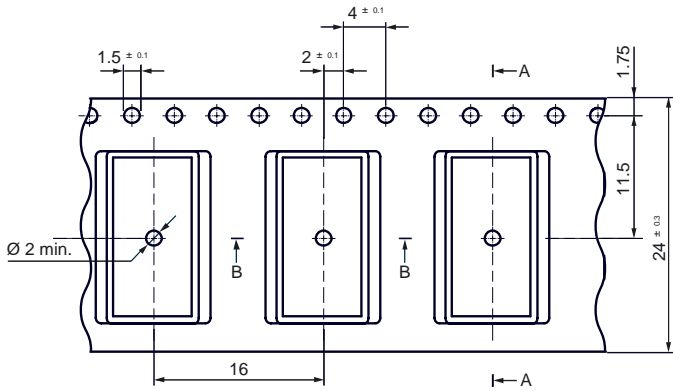
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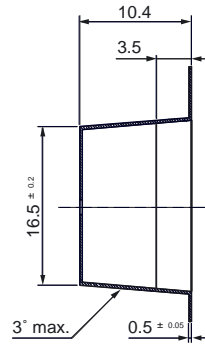
# AZ8462

## PACKAGING

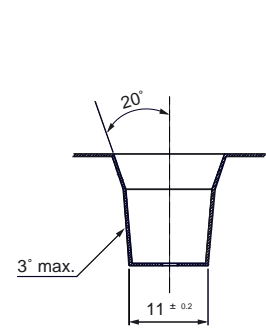
Tape and reel for SMT version with long terminals - "S"



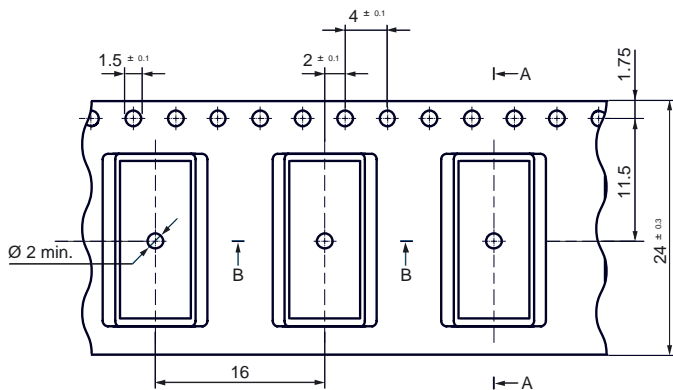
Section A-A



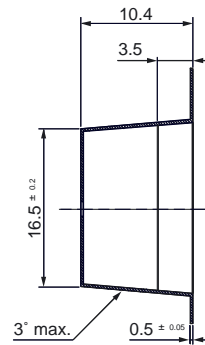
Section B-B



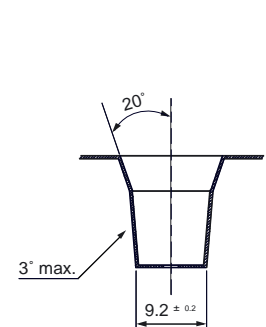
Tape and reel for SMT version with short terminals - "S1"



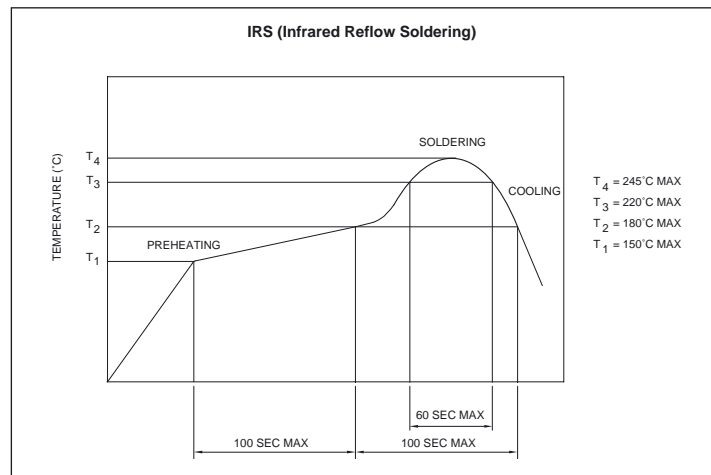
Section A-A



Section B-B



## SOLDERING DATA



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