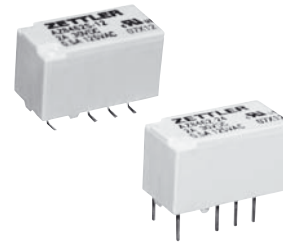


AZ8462

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 μ A
- Low power consumption: 79 mW pickup
- Stable contact resistance for low level signal switching
- Epoxy sealed
- UL, CUR file E43203



CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Ratings	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.
Rated Load UL	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.
Material	Silver nickel gold plated
Resistance	< 50 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	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
Max. Continuous Dissipation	0.39 W at 20°C (68°F) ambient
Temperature Rise (at nominal voltage)	25°C (45°F) at nominal coil voltage
Temperature	Max. 155°C (311°F) Class F

GENERAL DATA

Life Expectancy	Minimum operations 1 x 10 ⁸
Mechanical	
Electrical	5 x 10 ⁵ at 1 A 30 VDC, resistive 1 x 10 ⁵ at 2 A 30 VDC, resistive 1 x 10 ⁵ at 0.5 A 120 VAC, resistive
Operate Time (max.)	4 ms at nominal coil voltage
Release Time (max.)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	2000 Vrms coil to contact 1500 Vrms between contact sets 1000 Vrms between open contacts
Surge Voltage	
Coil to contacts	2500 V (at 2/10 μ s)
Open contacts	1500 V (at 10/160 μ s)
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 105°C (221°F)
Vibration	3.3 mm DA at 10–55 Hz
Shock	75 g operating, 100 g damage
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	see soldering profile
Max. Solder Time	see soldering profile
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	2.3 grams
Packing unit in pcs	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.

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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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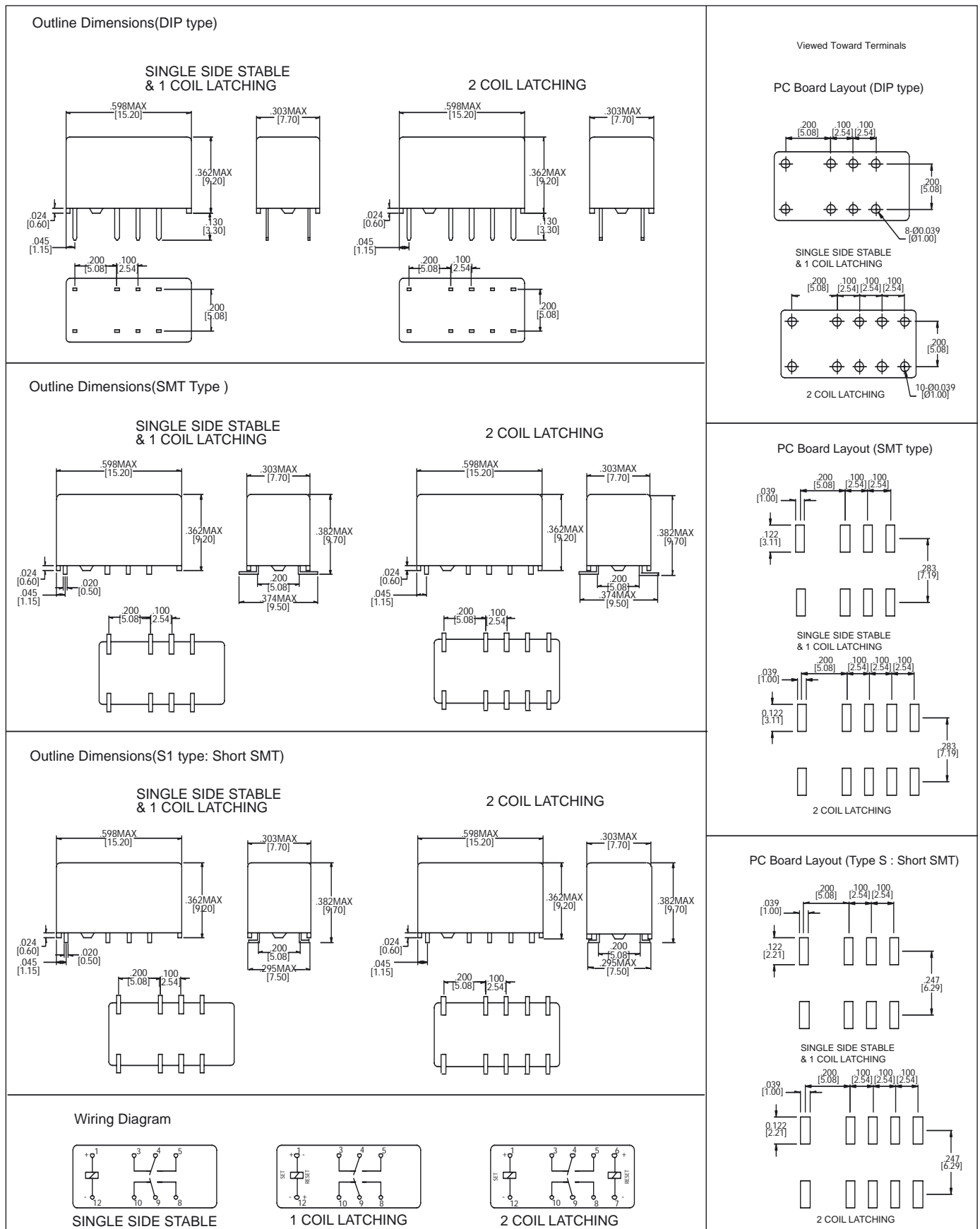
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MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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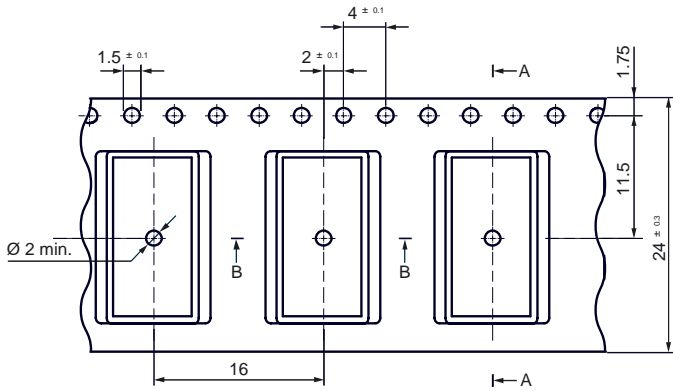
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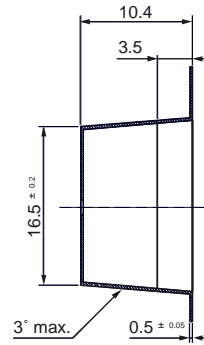
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PACKAGING

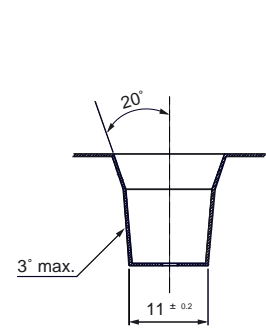
Tape and reel for SMT version with long terminals - "S"



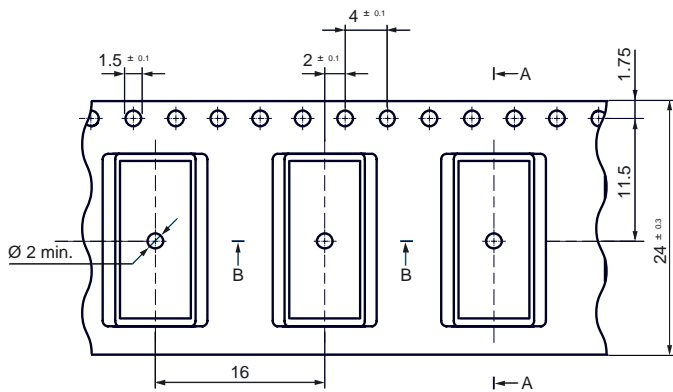
Section A-A



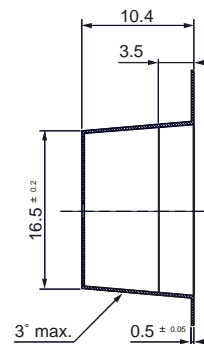
Section B-B



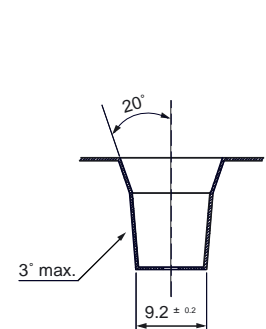
Tape and reel for SMT version with short terminals - "S1"



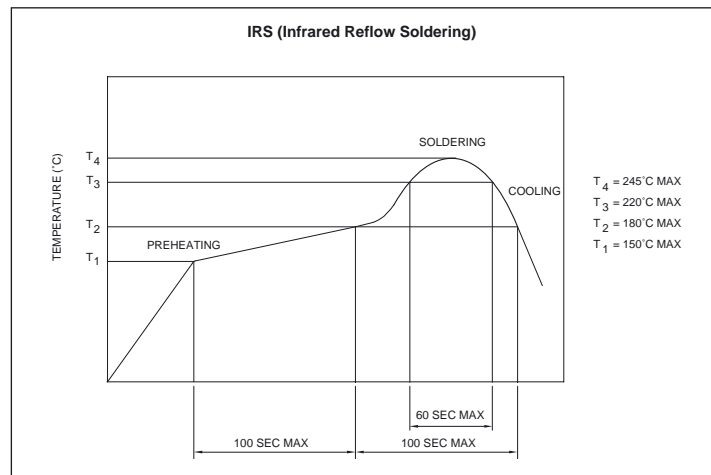
Section A-A



Section B-B



SOLDERING DATA



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