



AMERICAN ZETTLER, INC.

75 COLUMBIA • ALISO VIEJO, CA 92656 • 949-831-5000 • FAX 949-831-8642

For Immediate Release

December 21, 2005

AZ8463 Series Subminiature Signal Relay

Contact: Fred Harmon
Vice President, Sales & Marketing
(949) 831-5000

Aliso Viejo, California – American Zettler, in continuing its tradition of excellence, introduces the AZ8463 Series relay. The AZ8463 has a DPDT contact arrangement in a DIL layout. Features include the option of single-side stable or latching single coil, heavy-duty bifurcated contacts and RoHS compliance. The low power consumption and latching option make the AZ8463 the prime choice for battery-powered applications. The AZ8463 has a surge withstand voltage up to 2500 VAC and a high contact capacity of 2 Amps at 30 VDC. Stable contact resistance makes AZ8463 the optimum choice for lower level signal switching.

Pricing starts at \$ 0.97 at 1000 pieces.

For application and product information contact:

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RELAY PROFILE

Relay	AZ8463 Series
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Relay Description	Sub-miniature Polarized Signal Relay
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Features/Benefits	2 Amp Switching at 30 VDC 0.5 Amp Switching at 120 VAC 2 kV dielectric coil to contacts Low Cost Epoxy Sealed Construction Available RoHS compliant 1 Coil Latching Version Available
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Relay Applications	Telecommunications, Security/Alarm Systems, Games, Process & Control Equipment, Fax Machines
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Relay Availability	Sample quantity available Production 8 weeks
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Relay Price	See attachments
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Relay Cross Reference	See below
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AZ8463 Cross Reference

P&B (Tyco)	V23079
Aromat	TX
Omron	G6S
NEC	EC2

AZ8463

MICROMINIATURE POLARIZED RELAY



FEATURES

- 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 (pending)
- All plastics meet UL94 V-0, 30 min. oxygen index

CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Ratings	Resistive load: Max. switched power: 60 W or 62.5 VA Max. switched current: 2.0 A Max. switched voltage: 220 VDC or 250 VAC
Rated Load UL/CUR pending	0.5 A at 125 VAC 2.0 A at 30 VDC
Material	Silver alloy, gold plated
Resistance	< 75 milliohms initially at 6 V, 1 A

COIL (Polarized)

Power At Pickup Voltage (typical)	79 mW
Max. Continuous Dissipation Temperature Rise	0.32 W at 20°C (68°F) At nominal coil voltage 30° (54° F) max
Temperature	Max. 115°C (239°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁸ at 3Hz 1 x 10 ⁵ at 0.5 A, 125 VAC, Res. 1 x 10 ⁵ at 2.0 A, 30 VDC, Res.
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)	See table
Dropout	Greater than 10% of nominal coil voltage
Insulation Resistance	10 ⁹ ohms min. at 25°C, 500 VDC, 50% RH
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 115°C (239°F)
Vibration	Operational, 3.3 mm DA, 10–55 Hz Non-destructive, 5.5 mm DA, 10–55 Hz
Shock	Operational, 75 g min., 11 ms Non-destructive, 100 g min., 11 ms
Max. Solder Temp.	260°C (500°F) for 5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	2 grams
Enclosure	P.B.T. polyester
Terminals	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.



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12/5/05W

AZ8463

RELAY ORDERING DATA

STANDARD VERSION				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	
3	2.25	4.5	64.3	AZ8463-3
4.5	3.38	6.7	145	AZ8463-4.5
5	3.75	7.5	178	AZ8463-5
6	4.50	9.0	257	AZ8463-6
9	6.75	13.5	579	AZ8463-9
12	9.00	18.0	1028	AZ8463-12
24	18.00	36.0	4114	AZ8463-24

SINGLE COIL LATCHING VERSION				
Nominal Coil VDC	Set Voltage	Max. Continuous VDC	Coil Resistance $\pm 10\%$	ORDER NUMBER
3	2.25	4.5	90	AZ8463P1-3
4.5	3.38	6.7	203	AZ8463P1-4.5
5	3.75	7.5	250	AZ8463P1-5
6	4.50	9.0	360	AZ8463P-6
9	6.75	13.5	810	AZ8463P1-9
12	9.00	18.0	1440	AZ8463P1-12
24	18.00	36.0	5760	AZ8463P1-24

	INITIAL DIELECTRIC STRENGTH (minimum)		SURGE	
	VRMS, 1 min.	Peak (V)	Rise Time (μS)	Decay Time* ($9\mu\text{S}$) (1/2 peak)
Between open contacts	1,000	1,500	10	160
Between contact sets	1,000	1,500	2	160
Between coil and contacts	1,500	2,500	2	10

* Decay time measured from beginning of surge.



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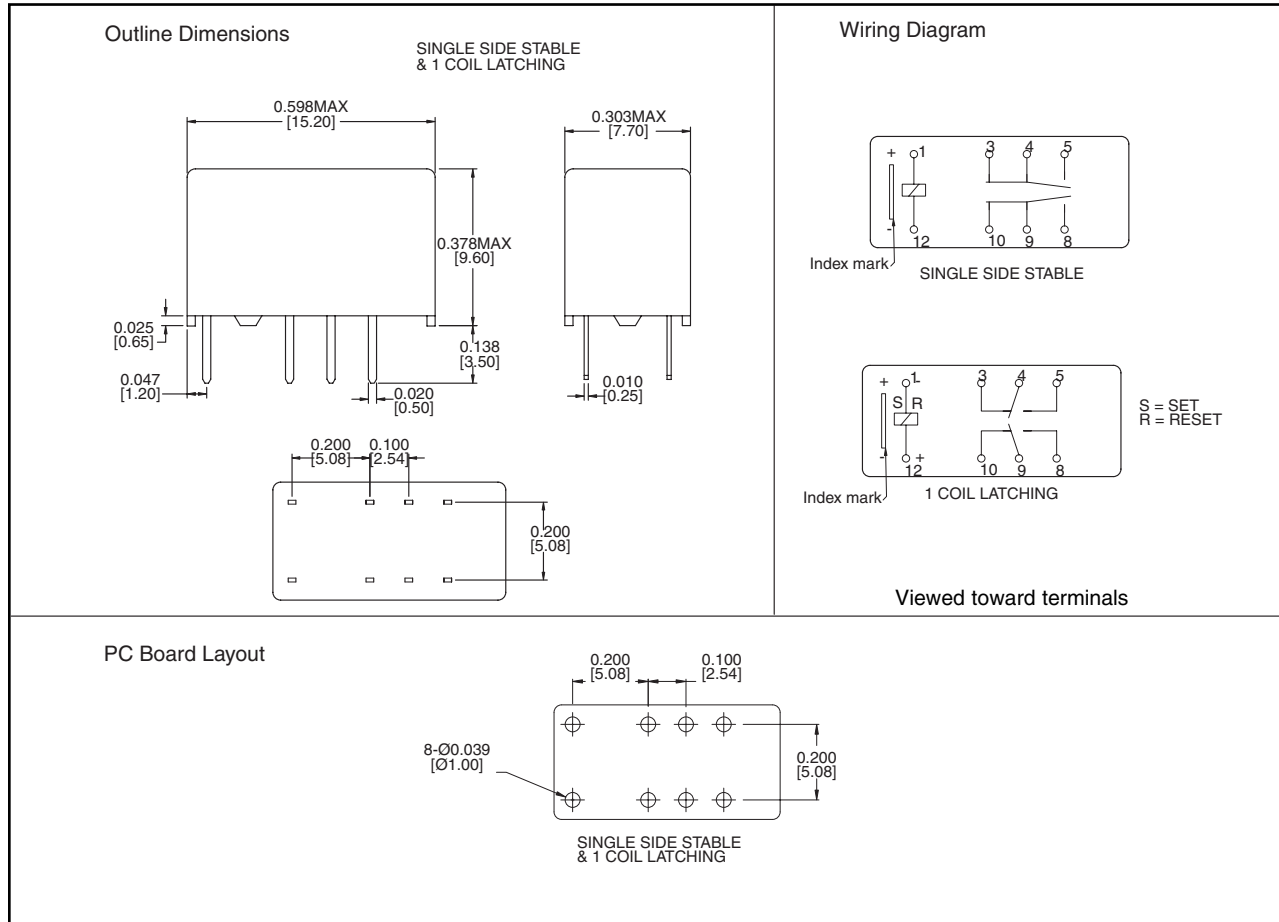
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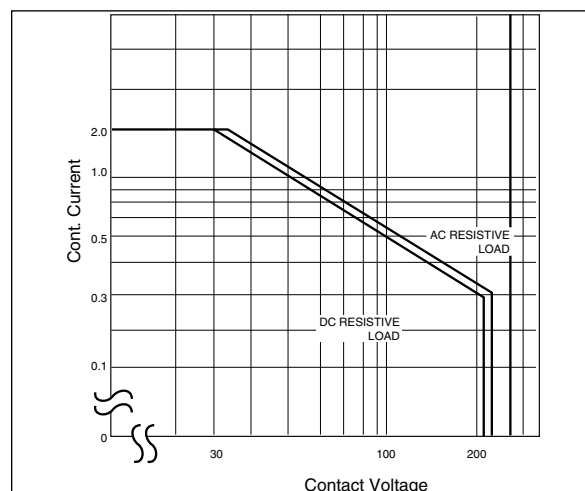
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Mechanical Data



Maximum Switching Capacity



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Distributor Price List - Internal

SERIES AZ8463

21-December-05

Std Pkg	Disty Item	Part Number	'1-49'	'50'	'100'	'500'	1K'	Lead Time
50		AZ8463-3	0.96	0.91	0.86	0.82	0.78	8 weeks
50		AZ8463-4.5	0.96	0.91	0.86	0.82	0.78	8 weeks
50		AZ8463-5	0.96	0.91	0.86	0.82	0.78	8 weeks
50		AZ8463-6	0.96	0.91	0.86	0.82	0.78	8 weeks
50		AZ8463-9	0.96	0.91	0.86	0.82	0.78	8 weeks
50		AZ8463-12	0.97	0.92	0.87	0.83	0.79	8 weeks
50		AZ8463-24	1.02	0.97	0.92	0.87	0.83	8 weeks
50		AZ8463P1-3	1.20	1.14	1.08	1.03	0.98	8 weeks
50		AZ8463P1-4.5	1.20	1.14	1.08	1.03	0.98	8 weeks
50		AZ8463P1-5	1.20	1.14	1.08	1.03	0.98	8 weeks
50		AZ8463P1-6	1.20	1.14	1.08	1.03	0.98	8 weeks
50		AZ8463P1-9	1.20	1.14	1.08	1.03	0.98	8 weeks
50		AZ8463P1-12	1.23	1.16	1.10	1.05	1.00	8 weeks
50		AZ8463P1-24	1.28	1.21	1.15	1.09	1.04	8 weeks

OEM Price List - Internal

SERIES AZ8463

21-December-05

Std Pkg	Part Number	'1-49'	'50'	'100'	'500'	1K'	LeadTime
50	AZ8463-3	1.19	1.13	1.07	1.02	0.97	8 weeks
50	AZ8463-4.5	1.19	1.13	1.07	1.02	0.97	8 weeks
50	AZ8463-5	1.19	1.13	1.07	1.02	0.97	8 weeks
50	AZ8463-6	1.19	1.13	1.07	1.02	0.97	8 weeks
50	AZ8463-9	1.19	1.13	1.07	1.02	0.97	8 weeks
50	AZ8463-12	1.21	1.15	1.09	1.04	0.99	8 weeks
50	AZ8463-24	1.28	1.21	1.15	1.09	1.04	8 weeks
50	AZ8463P1-3	1.51	1.43	1.36	1.29	1.23	8 weeks
50	AZ8463P1-4.5	1.51	1.43	1.36	1.29	1.23	8 weeks
50	AZ8463P1-5	1.51	1.43	1.36	1.29	1.23	8 weeks
50	AZ8463P1-6	1.51	1.43	1.36	1.29	1.23	8 weeks
50	AZ8463P1-9	1.51	1.43	1.36	1.29	1.23	8 weeks
50	AZ8463P1-12	1.53	1.46	1.38	1.31	1.25	8 weeks
50	AZ8463P1-24	1.59	1.51	1.43	1.37	1.30	8 weeks