AZ9201

ULTRA-SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint utilizing only 0.16 square inch (108 square mm) of PCB area
- Thin vertical profile only 0.2 inch (5.08mm) wide
- Slim SIP package
- 1 Form A contact with up to 5 Amp switching capability
- High sensitivity, 58mW pickup
- Dielectric strength 2000Vrms contact to coil
- UL,CUR file E43203

CONTACTS

Arrangement	SPST (1 Form A), single button contact
Ratings **UL Rating:** **VDE**	Resistive load: Max. switched power: 150W or 1250VA Max. switched current: 5A Max. switched voltage: 110VDC* or 250VAC 5A at 30VDC or 250VAC 5A at 30VDC or 250VAC Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Material	Silver alloy with gold clad
Resistance	< 50 milliohms initially (10mA, 6VDC method)

COIL

Power	
At Pickup Voltage (typical)	58 mW (5-18 V and 24 V sensitive coils) 88 mW (24 V coil)
Max. Continuous Dissipation	1.3 W at 20°C (68°F) ambient
Temperature Rise	12°C (22°F) at nominal coil voltage (5-18 V coils) 17°C (31°F) at nominal coil voltage (24 V coil)
Temperature	Max. 115°C (239°F)

NOTES

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

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 20 million operations 1 X 10^5 at 5A, 30VDC or 250VAC
Operate Time (typical)	10ms at nominal coil voltage
Release Time (typical)	5ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1000 Vrms between open contacts 2000 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage
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	0.062" DA at 10–55 Hz
Shock	15 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
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 grams

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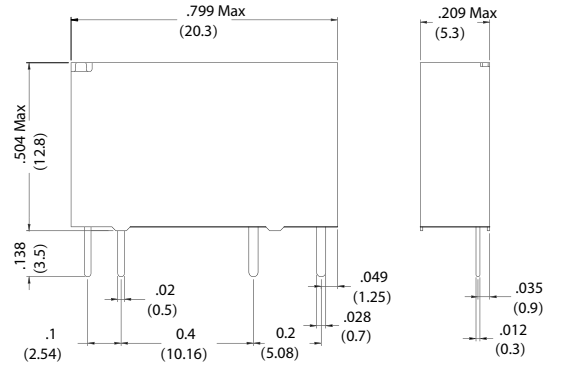
RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Form A (SPST)
5	3.5	6.0	208	AZ9201–1A–5D
6	4.2	7.2	300	AZ9201–1A–6D
9	6.3	10.8	675	AZ9201–1A–9D
12	8.4	14.4	1200	AZ9201–1A–12D
18	12.6	21.6	2700	AZ9201–1A–18D
24	16.8	28.8	3200	AZ9201–1A–24D

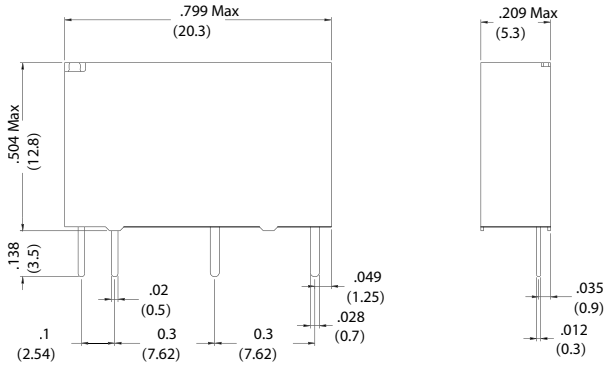
*Add suffix "K" for 0.3 inch terminal spacing. Add suffix E for epoxy sealed version.

MECHANICAL DATA

Standard

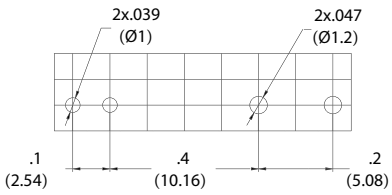


"K" Version

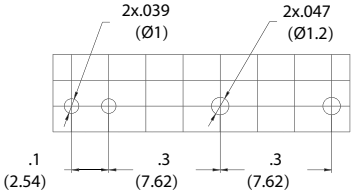


PCB BOARD LAYOUT

Standard

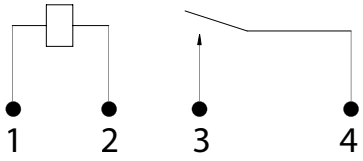


"K" Version



(Viewed Toward Terminals)

WIRING DIAGRAM



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