AZ832

POLARIZED DIP RELAY
SINGLE SIDE STABLE

FEATURES

- Low profile for compact board spacing
- DC coils to 48VDC
- High sensitivity, 96mW pickup
- Life expectancy to 10 million operations
- High switching capacity, 90W, 125VA
- Fits standard 16 pin IC socket
- Epoxy sealed for automatic wave soldering and cleaning
- Meets FCC Part 68.302 1500V lightning surge
- Meets FCC Part 68.304 1000V dielectric
- UL, CUR file E43203

CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Ratings	Resistive load: Max. switched power: 90W or 125VA Max. switched current: 3A Max. switched voltage: 220VDC or 250VAC
Rated Load **UL**	3A at 30VDC resistive 50K cycles at 70°C 2A at 30VDC resistive 2A at 125VAC resistive
Material	Gold plated silver against gold plated silver
Resistance	< 50 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	Non-Sensitive Coil: 252mW Standard Coil: 135mW Sensitive Coil: 128mW Ultra-Sensitive Coil: 96mW
Max. Continuous Dissipation	0.9 W at 20°C (68°F)
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. Relay has fixed coil polarity.
4. For complete isolation between the relay’s magnetic fields, it is recommended that a .197" (5.0 mm) space be provided between adjacent relays.
5. Relay adjustment may be affected if undue pressure is exerted on relay case.
6. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^8 1 x 10^5 at 2A, 30VDC or 1A, 125VAC 2 x 10^6 at 1A, 30VDC or 0.5A, 125VAC
Operate Time (typical)	3ms at nominal coil voltage
Release Time (typical)	2ms at nominal coil voltage (with no coil suppression)
Bounce (typical)	3ms
Dielectric Strength (at sea level)	1500Vrms contact to coil 1000Vrms between contact sets 1000Vrms across contacts Meets FCC Part 68.302 lightning surge Meets FCC Part 68.304 V dielectric
Insulation Resistance	1000 megohms min. at 20°C, 500VDC, 50% RH
Dropout	Greater than 10% 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	1.5mm DA at 10-55Hz
Shock	50 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	5 grams

AMERICAN ZETTLER, INC. *www.azettler.com*

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2/09/16

RELAY ORDERING DATA

ULTRA SENSITIVE COIL				
COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
5	12.3	167	4.0	AZ832–2C–5DSE
6	14.5	240	4.8	AZ832–2C–6DSE
9	21.0	540	7.2	AZ832–2C–9DSE
12	29.0	960	9.6	AZ832–2C–12DSE
15	34.6	1500	12.0	AZ832–2C–18DSE
24	57.0	3840	19.2	AZ832–2C–24DSE

SENSITIVE COIL				
COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
3	6.4	45.0	2.4	AZ832-2C-3DE
5	10.6	125	4.0	AZ832–2C–5DE
6	12.7	180	4.8	AZ832–2C–6DE
9	19.1	405	7.2	AZ832–2C–9DE
12	25.5	720	9.6	AZ832–2C–12DE
15	30.0	1100	11.25	AZ832–2C–18DE
24	50.9	2,880	19.2	AZ832–2C–24DE
48	101.8	11,520	38.4	AZ832–2C–48DE

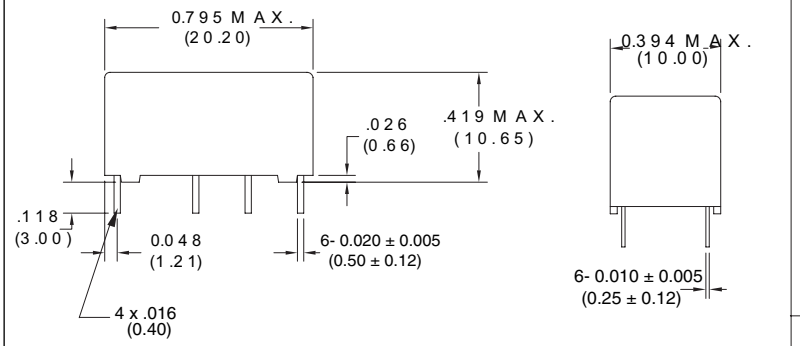
STANDARD COIL				
COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
3	5.7	36	2.25	AZ832-2C-3DME
5	9.2	95	3.75	AZ832–2C–5DME
6	11.0	150	4.5	AZ832–2C–6DME
12	23.2	600	9.0	AZ832–2C–12DME
18	34.8	1350	13.5	AZ832–2C–18DME
24	44.6	2210	18.0	AZ832–2C–24DME

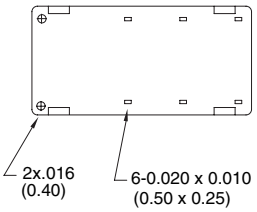
NON-SENSITIVE COIL				
COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
5	6.3	36	3.5	AZ832–2C–5DHE
6	8.9	70	4.2	AZ832–2C–6DHE
9	12.5	140	5.3	AZ832–2C–9DHE
12	17.8	280	8.4	AZ832–2C–12DHE
18	26.7	630	12.6	AZ832–2C–18DHE
24	34.4	1050	16.8	AZ832–2C–24DHE

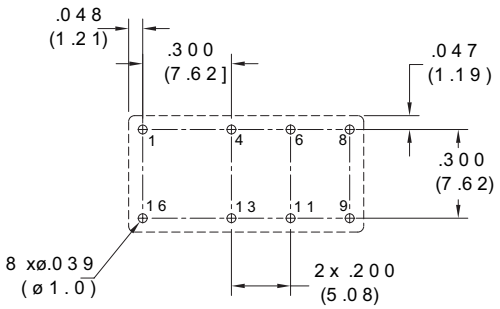
AZ832

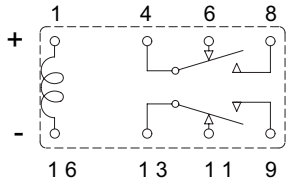
MECHANICAL DATA

Outline Dimensions









VIEWED TOWARD TERMINALS

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

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