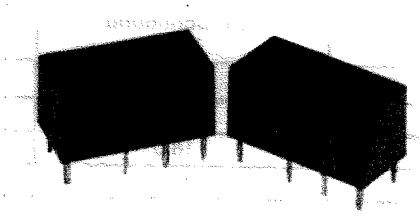
AZ 830 POLARIZED DIP RELAY SINGLE SIDE STABLE

Features

- Low Profile for Compact Board Spacing
- High Sensitivity, 100mW Pick-up
- Fits Standard 16-Pin IC Socket
- Coil Voltages to 48VDC
- Epoxy Sealed for Automatic Wave Soldering
- High Switching Capacity, 60W, 125VA
- Life Expectancy to 100 Million Operations
- Meets FCC Part 68.302 1,500V Lightning Surge
- Meets FCC Part 68.304 1,000V Dielectric
- UL File E43203; CSA File LR 36664



Specifications

Contacts

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Rating	Noninductive load Max switched power: 60W or 125VA Max switched current: 2 Amps Max switched voltage: 150VDC or 300VAC
UL, CSA Rating	2A @ 30VDC 1A @ 120VAC
Material	Silver Alloy, Gold Clad. Silver Palladium, gold clad available upon request (not recommended for current greater than 1 Amp)
Resistance	50 milliohms initially

Coil

Power	
at Pickup Voltage (typical)	Standard coil: 200mW Sensitive coil: 100mW
Max Continuous Dissipation	1.2W @ 20C (68F) ambient 0.9W @ 40C (104F) ambient
Temperature Rise (at nominal voltage)	Standard: 38C (100F) Sensitive: 21C (70F)
Temperature	Maximum 115C (239F)

General Data

Life Expectancy	Minimum operations
Mechanical	100,000,000
Electrical	500,000 @ 2A, 30VDC or 1A, 125VAC 200,000 @ 1A, 30VDC or 0.5A, 125VAC
Operate Time	3ms at nominal voltage (typical)
Release Time (typical)	2ms at nominal coil voltage with no coil suppression
Capacitance	1.0pF contact to contact 1.0pF contact set to contact set 2.0pF contact to coil
Bounce	At 10mA contact current 1.5 ms at operate NO side 2.5 ms at operate NC side
Dielectric Strength (at sea level)	1,500Vrms contact to coil 1,000Vrms between contact sets 1,000Vrms across contacts Meets FCC Part 68.302 Lightning Surge Meets FCC Part 68.304 1,000V Dielectric
Insulation Resistance	1,000 megohms min @ 20C (68F), 500VDC, 50% RH
Dropout	> 10% of nominal coil voltage
Ambient Temp	At nominal coil voltage
(operating)	Standard: -40C (-40F) to 70C (158F) Sensitive: -40C (-40F) to 85C (185F)
(storage)	-40C (-40F) to 115C (239F)
Vibration	0.062" DA @ 10-55 Hz
Shock	40g
Enclosure	P.B.T. Polyester
Terminals	Tinned copper alloy, P.C.
Max Solder Temp	270C (518F)
Max Solder Time	5 seconds
Max Solvent Time	80C (176F)
Immersion Time	30 seconds maximum
Weight	5 grams

Notes

1. All values at 20C (68F) unless otherwise indicated
2. Relay may pull in with less 'Must Operate' value
3. Relay has fixed coil polarity
4. Maintain 5mm space between relays for magnetic isolation
4. Specifications subject to change without notice

Relay Ordering Data

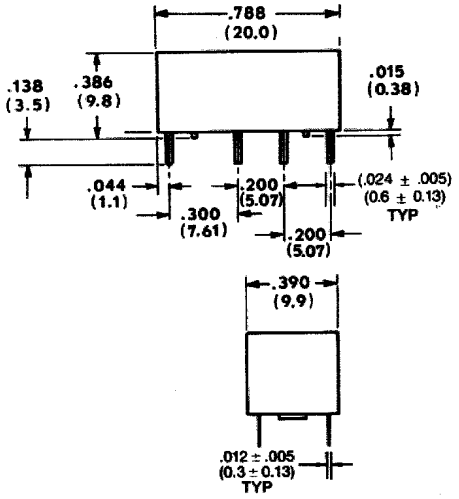
Standard Relays

Coil Specifications				ORDER NUMBER
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	
5	7.5	62.5	3.5	AZ 830-2C-5DE
6	9.0	90	4.2	AZ 830-2C-6DE
12	18.0	360	8.4	AZ 830-2C-12DE
24	36.0	1,440	16.8	AZ 830-2C-24DE
48	72.0	5,760	33.6	AZ 830-2C-48DE

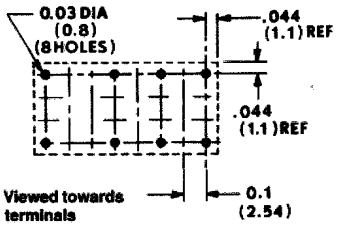
Sensitive Relays

Coil Specifications				ORDER NUMBER
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	
5	11.0	125	3.5	AZ 830-2C-5DSE
6	13.0	180	4.2	AZ 830-2C-6DSE
12	26.0	720	8.4	AZ 830-2C-12DSE
24	53.0	2,880	16.8	AZ 830-2C-24DSE
48	106.0	11,520	33.6	AZ 830-2C-48DSE

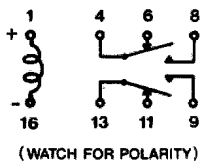
Mechanical Dimensions



PC BOARD LAYOUT



WIRING DIAGRAM



(WATCH FOR POLARITY)

Viewed towards terminals

Dimensions in inches with metric equivalents in parantheses. Tolerance is 0.010"