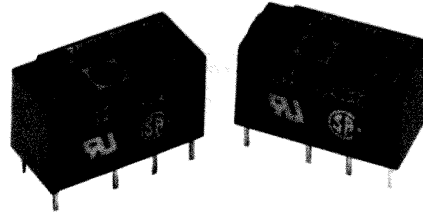


AZ 820 SERIES SUBMINIATURE DIP RELAY

Features

- Low Profile for Compact Board Spacing
- Standard PC 0.1" Grid Terminal Spacing
- Fits Standard 16-Pin IC Socket
- Coil Voltages to 48VDC
- Epoxy Sealed for Automatic Wave Soldering
- CSA File LR 36664
- Life Expectancy to 10 Million Operations
- Meets FCC Part 68.302 1,500V Lightning Surge
- Meets FCC Part 68.304 1,000V Dielectric
- UL File E43203



Specifications

Contacts

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Rating	Noninductive load Max switched power: 30W or 60VA Max switched current: 2 Amps Max switched voltage: 150VDC or 300VAC
UL, CSA Rating	1A @ 30VDC 0.5A @ 125VAC
Material	Silver Palladium, Gold Clad
Resistance	50 milliohms initially

Coil

Power at Pickup Voltage	250mW (typical)
Max Continuous Dissipation	1.6W @ 20C (68F) ambient 1.15W @ 40C (104F) ambient
Temperature Rise	45C (113F) at nominal coil voltage
Temperature	120C (248F) Maximum

General Data

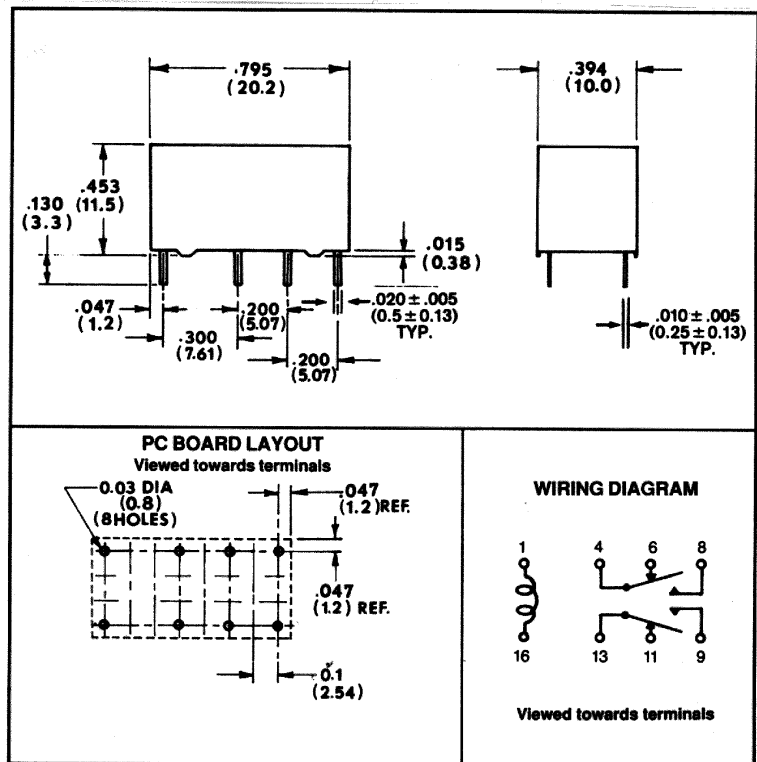
Life Expectancy	Minimum operations
Mechanical	10,000,000
Electrical	500,000 at 1A, 30VDC
Operate Time	5ms at nominal coil voltage (typical)
Release Time	2 ms at nominal coil voltage
(typical)	with no coil suppression
Capacitance	1.5pF contact to contact 1.5pF contact set to contact set 2.6pF contact to coil
Bounce	At 10mA contact current 2 ms at operate NO side 3 ms at release NC side
Dielectric Strength (at sea level)	1,000Vrms NC contact to coil 1,500Vrms all other points 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 (operating)	At nominal coil voltage
(storage)	-55C (-67F) to 75C (167F) -55C (-67F) to 120C (248F)
Vibration	0.062" DA @ 10-55 Hz
Shock	20g
Enclosure	P.B.T. Polyester
Terminals	Tinned copper alloy, P.C.
Max Solder Temp	270C (518F)
Max Solder Time	5 seconds
Solvent Temp	80C (176F) maximum
Immersion Time	30 seconds maximum
Weight	5 grams

Relay Ordering Data

Standard Relays - 2 Form C (DPDT)

Coil Specifications				ORDER NUMBER
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	
5	7.5	45	3.5	AZ 820-2C-5DE
6	9.0	66	4.2	AZ 820-2C-6DE
12	18.0	280	8.4	AZ 820-2C-12DE
24	36.0	1,070	16.8	AZ 820-2C-24DE
48	72.0	4,000	34.6	AZ 820-2C-48DE

Mechanical Dimensions



Notes

- 1 All values at 20C (68F) unless otherwise indicated
- 2 Relay may pull in with less 'Must Operate' value
- 3 Relay adjustment may be affected if undue pressure is exerted on relay case
- 4 Specifications subject to change without notice

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