AZ822

SUBMINIATURE DIP RELAY



FEATURES

- Low profile for compact board spacing
- DC coils to 48VDC
- Life expectancy to 10 million operations
- Standard PC 0.1" grid terminal spacing
- 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: 60W or 125VA Max. switched current: 2A Max. switched voltage: 220VDC or 250VAC **UL Rating:** 2A at 30VDC 0.5A at 120VAC
Material	Silver palladium, gold clad
Resistance	< 50 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	98mW (Standard coils) 74mW (Sensitive coils)
Max. Continuous Dissipation	0.94W at 20°C (68°F)
Temperature Rise	15°C (27°F) at nominal coil voltage
Temperature	Max. 105°C (221°F)

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than “Must Operate” value.
3. Relay adjustment may be affected if undue pressure is exerted on relay case.
4. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1×10^8 5×10^5 at 1A, 24VDC
Operate Time (typical)	5ms at nominal coil voltage
Release Time (typical)	2ms at nominal coil voltage (with no coil suppression)
Capacitance (max.)	Contact to contact: 1.2pF Contact set to contact set: 1.6pF Contact to coil: 1.5pF
Bounce (typical)	At 10mA contact current 2ms at operate N.O. side 3ms at operate N.C. side
Dielectric Strength (at sea level for 1 min.)	1000Vrms contact to coil 1000Vrms contact to contact 1000Vrms between contact sets
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -55°C (-67°F) to 90°C (194°F) -55°C (-67°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester (UL94 V-0)
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	Approx. 4.5 grams

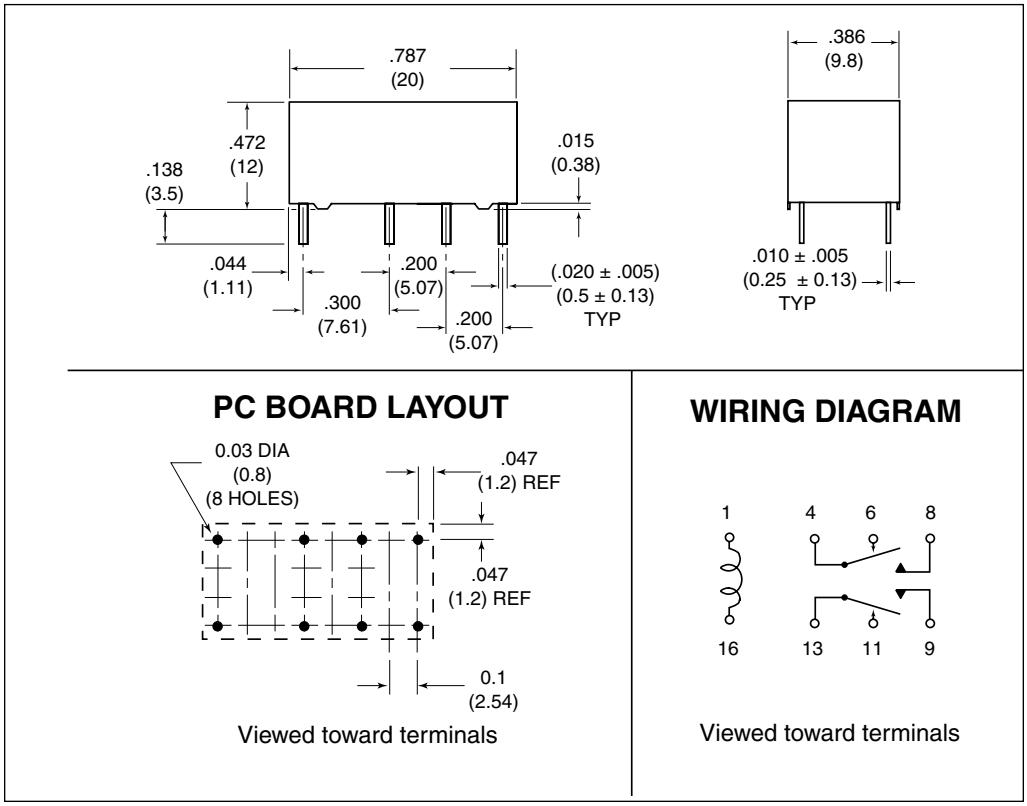
PHONE: (949) 831-5000
E-MAIL: SALES@AZETTLER.COM

AZ822

RELAY ORDERING DATA

COIL SPECIFICATIONS - STANDARD				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
3	6.5	45	2.1	AZ822–2C–3DE
5	10.8	125	3.5	AZ822–2C–5DE
6	13.0	180	4.2	AZ822–2C–6DE
9	19.5	405	6.3	AZ822–2C–9DE
12	26.5	720	8.4	AZ822–2C–12DE
24	52.9	2880	16.8	AZ822–2C–24DE
48	103.9	11,520	33.6	AZ822–2C–48DE
COIL SPECIFICATIONS - SENSITIVE				**ORDER NUMBER**
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
3	7.5	60	2.1	AZ822–2C–3DSE
5	12.5	167	3.5	AZ822–2C–5DSE
6	15.0	240	4.2	AZ822–2C–6DSE
9	22.5	540	6.3	AZ822–2C–9DSE
12	30.0	960	8.4	AZ822–2C–12DSE
18	40.0	1620	12.6	AZ822–2C–18DSE
24	52.9	3840	16.8	AZ822–2C–24DSE
48	84.9	7680	33.6	AZ822–2C–48DSE

MECHANICAL DATA



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

PHONE: (949) 831-5000 E-MAIL: SALES@AZETTLER.COM

This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.