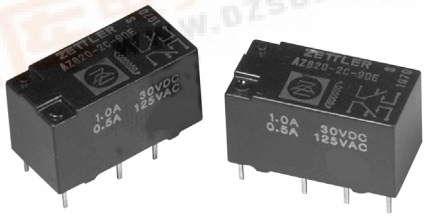
AZ826

SUBMINIATURE ULTRA-SENSITIVE DIP RELAY



FEATURES

- Low profile for compact board spacing
- DC coils to 24 VDC
- Bifurcated crossbar contacts
- Ultra-sensitivity, 84 mW pickup
- Life expectancy to 10 million operations
- High switching capacity, 24 W, 125 VA
- Fits standard 16 pin IC socket
- Epoxy sealed for automatic wave soldering and cleaning
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL, CUR file E43203

CONTACTS

Arrangement	DPDT (2 Form C)
Ratings	Resistive load: Max. switched power: 24 W or 125 VA Max. switched current: 1 A Max. switched voltage: 150 VDC or 220 VAC
Rated Load **UL**	 1.0 A at 24 VDC 1.0 A at 125 VAC
Material	Silver, gold plated
Resistance	< 50 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	180 mW standard 100 mW sensitive 84 mW ultra-sensitive
Max. Continuous Dissipation	1.2 W at 20°C (68°F)
Temperature Rise	34°C (61°F) standard 23°C (41°F) sensitive 19°C (34°F) ultra-sensitive
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. Other coil resistances and sensitivities available upon request.
4. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^7 1 x 10^5 at 1.0 A 120 VAC Res.
Operate Time (typical)	6 ms at nominal coil voltage
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength **(at sea level for 1 min.)**	1500 Vrms contact to coil 500 Vrms between open contacts 1500 Vrms contact set to contact set
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) standard -40°C (-40°F) to 80°C (176°F) sensitive -40°C (-40°F) to 85°C (185°F) ultra-sensitive -40°C (-40°F) to 105°C (221°F)
Vibration	1.5 mm DA at 10–55 Hz
Shock	50 g 11 ms ½ sine
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds

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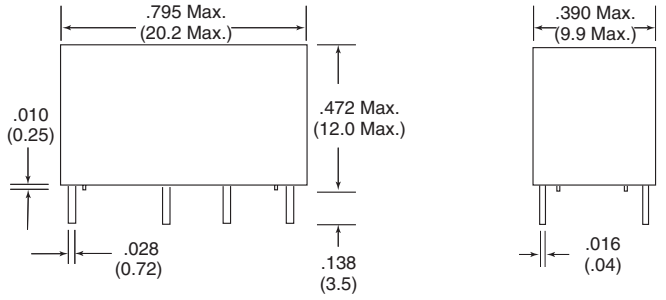
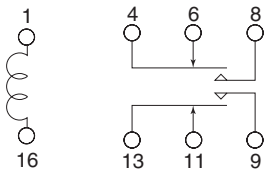
RELAY ORDERING DATA

STANDARD COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
3	5.5	25	2.1	AZ826-2C-3DME
5	9.2	70	3.5	AZ826–2C–5DME
6	11.0	100	4.2	AZ826–2C–6DME
9	16.4	225	6.3	AZ826–2C–9DME
12	21.9	400	8.4	AZ826–2C–12DME
24	43.8	1600	16.8	AZ826–2C–24DME
SENSITIVE COIL SPECIFICATIONS				**ORDER NUMBER**
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
3	7.3	45	2.1	AZ826-2C-3DSE
5	12.2	125	3.5	AZ826–2C–5DSE
6	14.7	180	4.2	AZ826–2C–6DSE
9	22.0	405	6.3	AZ826–2C–9DSE
12	29.0	720	8.4	AZ826–2C–12DSE
24	52.3	2880	16.8	AZ826–2C–24DSE
ULTRA-SENSITIVE COIL SPECIFICATIONS				**ORDER NUMBER**
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	
3	8.5	60	2.3	AZ826–2C–3DSSE
4.5	12.7	135	3.4	AZ826–2C–4.5DSSE
5	14.2	167	3.8	AZ826–2C–5DSSE
6	17.0	240	4.5	AZ826–2C–6DSSE
9	25.4	540	6.8	AZ826–2C–9DSSE
12	33.9	960	9.0	AZ826–2C–12DSSE
24	67.9	3840	18.0	AZ826–2C–24DSSE

MECHANICAL DATA

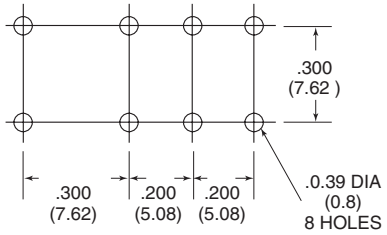


WIRING DIAGRAM



Viewed toward terminals

PC BOARD LAYOUT



Viewed toward terminals

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