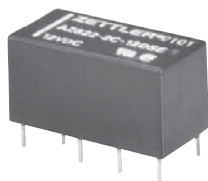


Subminiature DIP relays - single side stable



AZ822 subminiature DIP relays - single side stable • Low profile for compact board spacing • **DC coils: up to 48 V DC** • Life expectancy to 10 million operations • 2,54 mm pinning • 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-E43203

Contacts

Contact number & arrangement	2C/O DPDT (2 Form C) Bifurcated crossbar contacts	
Contact material	AgPd/Au ❶	
Resistive load		
• max. switching power	60 W / 125 VA	
• max. switching current	2 A	
• max. switching voltage	220 V DC ❷	250 V AC
• rated load	UL: 1 A / 24 V DC	0,5 A / 120 V AC
Resistance	≤ 50 mΩ	

Coil (Polarized)

Rated voltage	DC	5-6-9-12-24-48 V	
Must release voltage		≥ 0,1 U _n	
Power consumption	DC	0,15...0,3 W	
Power at pickup voltage (typical value)		74 mW	coil 5-12 V U _n
		98 mW	coil 24 V U _n
		147 mW	coil 48 V U _n
Max. continuous dissipation		0,94 W 20°C	
Temperature rise at U _n coil		15 °C	
Temperature		max. 105 °C	

General data

Electrical life:	• AC1	2 x 10 ⁵ 0,5 A, 120 V AC	
	• DC1	5 x 10 ⁵ 1 A, 30 V DC	
Mechanical life		10 ⁸	
Operating time (typical value) at U _n coil		5 ms	
Release time (typical value) at U _n coil		2 ms (with no coil suppression)	
Bounce (typical)		2 ms NO; 3 ms NC	
Capacitance		1,2 pF contact to contact	
		1,6 pF between contact sets	
		1,5 pF contact to coil	
Dielectric strength insulation (at sea level for 1 min.)		1 000 Vrms contact to coil	
		1 000 Vrms contact to contact	
		1 000 Vrms between contact sets	
Dimensions (L x W x H)		20 x 9,8 x 12 mm	
Weight		4,5 g	
Enclosure		poliester P.B.T.	
Terminals		alloy Cu-Sn	
Ambient temperature	• storing	-55...+105 °C	
	• operating (at U _n coil)	-55...+90 °C	
Cover protection category		IP 67	
Shock resistance		20 g	
Vibration resistance		stable amplitude to 1,5 mm DA at 10...55 Hz	
Solder bath temperature		max. 270 °C	
Soldering time		max. 5 s	

❶ Min. current / voltage: 10 μA / 10 mV

❷ At switching voltage above 30 V DC, contact Relpol S.A.

Notes: All values at 20 °C • Relays should not operate when the limit values are exceeded • Relay adjustment may be affected by undue pressure on relay case • Specifications subject to change without notice.



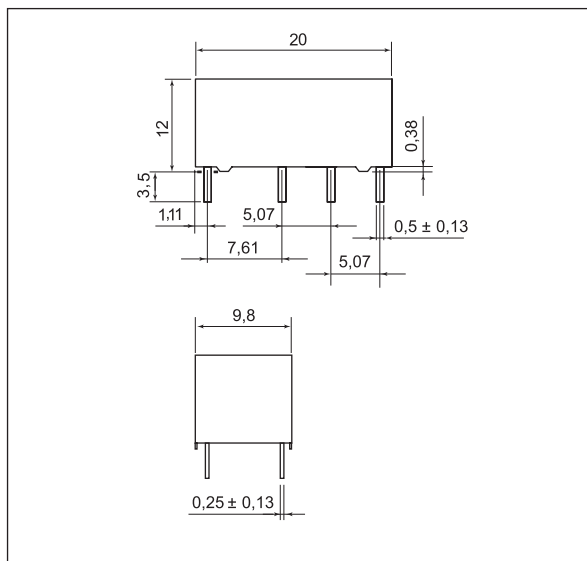
Subminiature DIP relays - single side stable

Coil data

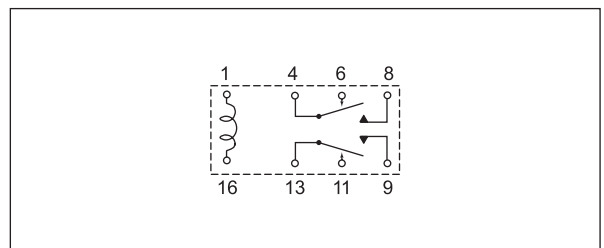
Table 1

Relay code	Nominal Coil V DC	Max. Continuous V DC	Coil Resistance $\pm 10\%$ Ω	Must Operate V DC
AZ822-2C-5DSE	5,0	12,5	167	3,5
AZ822-2C-6DSE	6,0	15,0	240	4,2
AZ822-2C-9DSE	9,0	22,5	540	6,3
AZ822-2C-12DSE	12,0	30,0	960	8,4
AZ822-2C-24DSE	24,0	52,9	2 880	16,8
AZ822-2C-48DSE	48,0	84,9	7 680	33,6

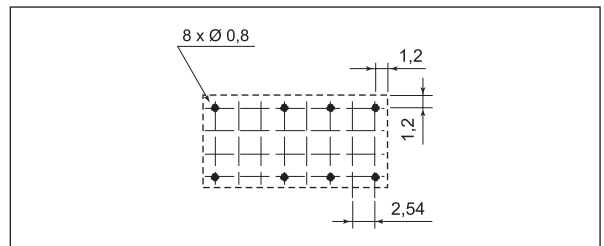
Dimensions



Connections diagram (pin side view)



Mounting holes layout



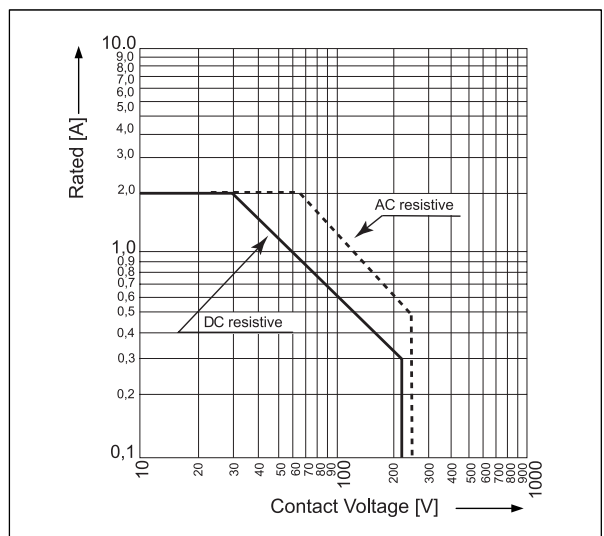
Typical contact life expectancy

Voltage	Current	Number of operations	
		Resistive load	Inductive load
50 mV	1 mA	1×10^7	1×10^7
30 V DC	1,0 A	5×10^5	15×10^4
30 V DC	0,7 A	1×10^6	3×10^5
30 V DC	0,3 A	3×10^6	1×10^6
60 V DC	0,5 A	5×10^5	—
60 V DC	0,3 A	1×10^6	—
60 V DC	0,2 A	3×10^6	—
30 V AC	2,0 A	5×10^5	15×10^4
30 V AC	1,3 A	1×10^6	3×10^5
30 V AC	0,7 A	3×10^6	1×10^6
60 V AC	1,0 A	5×10^5	15×10^4
60 V AC	0,7 A	1×10^6	3×10^5
60 V AC	0,3 A	3×10^6	1×10^6
125 V AC	0,5 A	5×10^5	15×10^4
125 V AC	0,3 A	1×10^6	3×10^5
125 V AC	0,2 A	3×10^6	1×10^6

Notes: 1. Relays operated at nominal coil voltage
 2. Inductive load tests are at 0,7 power factor.
 3. Table represents typical life figures and are not guaranteed minimums.

Maximum switching capacity

Fig. 1



Ordering codes

See Coil data - Table 1

