Subminiature PC board relays

AZ957 subminiature PC board relays • Subminiature size for high density packaging • **DC coils: up to 24 V DC** • Life expectancy to 10 million operations • for PCB mounting • 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 • For surface mounting SMT version available

Contacts

Contact number & arrangement	1C/O SPDT (1 Form C) Bifurcated crossbar contacts
Contact material	AgPd/Au ❶
Resistive load	
• max. switching power	30 W / 62,5 VA
• max. switching current	1 A
• max. switching voltage	60 V DC 125 V AC
• rated load	UL: 1 A / 30 V DC 0,3 A / 60 V DC 0,5 A / 125 V AC
Resistance	≤ 100 mΩ initially

Coil (Polarized)

Rated voltage	DC	1,5-3-5-6-9-12-24 V
Must release voltage		≥ 0,1 U_n
Power consumption	DC	0,15 W
Power at pickup voltage (typical value)		96 mW sensitive coil
Max. continuous dissipation		0,5 W 20ºC
Temperature rise at U_n coil		25 ºC sensitive coil
Temperature		max. 105 ºC

General data

Electrical life:	• AC1	10^5 0,5 A, 120 V AC
Mechanical life		10^7
Operating time (typical value) at U_n coil		5 ms sensitive coil
Release time (typical value) at U_n coil		1 ms (with no coil suppression)
Bounce (typical)		2 ms NO; 8 ms NC
Capacitance		7,0 pF contact to coil
		7,0 pF contact to contact
Dielectric strength insulation		1 250 Vrms contact to coil
(at sea level for 1 min.)		400 Vrms contact to contact
Insulation resistance 20 ºC, 500 V DC, 50% RH		min. 100 MΩ
Dimensions (L x W x H)		12,8 x 7,8 x 10,3 mm
Weight		2,2 g
Enclosure		poliester P.E.T.
Terminals		alloy Cu-Sn
Ambient temperature		
• storing		-25...+105 ºC
• operating (at U_n coil)		-40...+80 ºC sensitive coil
Cover protection category		IP 67
Shock resistance		10 g
Vibration resistance		stable amplitude to 1,0 mm DA at 10...55 Hz
Solder bath temperature		max. 270 ºC
Solvent temperature		max. 80 ºC
Immersion Time		max. 30 s
Soldering time		max. 5 s

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

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.
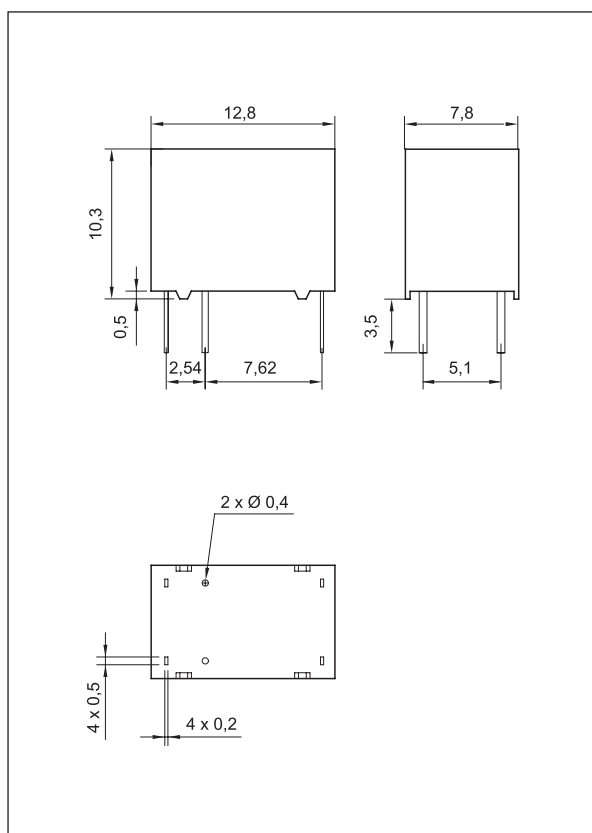
**Subminiature PC board relays**

| Coil data - sensitive version				Table 1
Relay code	Nominal Coil V DC	Max. Continuous V DC	Coil Resistance ±10% Ω	Must Operate V DC
AZ957-1C-1,5DSE	1,5	2,7	15	1,2
AZ957-1C-3DSE	3,0	5,5	60	2,4
AZ957-1C-5DSE	5,0	9,1	167	4,0
AZ957-1C-6DSE	6,0	11,0	240	4,8
AZ957-1C-9DSE	9,0	16,4	540	7,2
AZ957-1C-12DSE	12,0	21,9	960	9,6
AZ957-1C-24DSE	24,0	43,8	3 840	19,2

Dimensions

Connections diagram (pin side view)
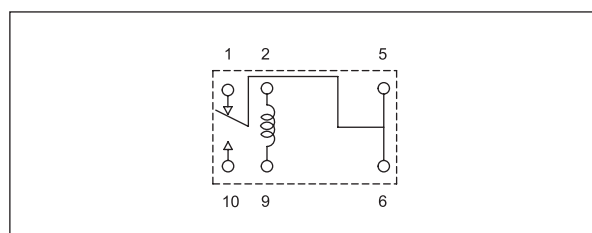
Mounting holes layout
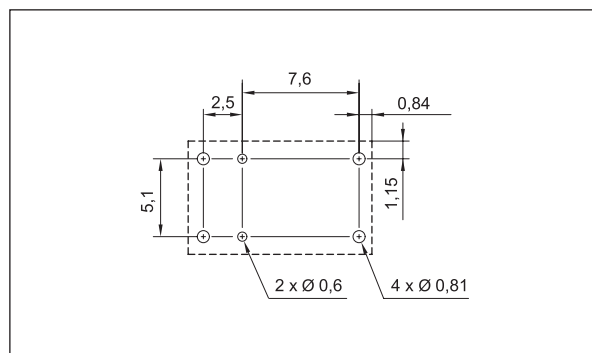
Ordering codes

See **Coil data** - Table 1

relpol S.A.