

SPDT SUBMINIATURE RELAY

FEATURES

- Subminiature size for high density packaging
- Epoxy sealed for automatic wave soldering
- DIL pitch terminals
- High sensitivity coils with 96 mW pickup power
- RoHS compliant
- UL, CUR file E43203



CONTACTS

Arrangement	SPDT (1 Form C)
Ratings (max.)	(resistive load)
switched power	30 W or 62.5 VA
switched current	1 A
switched voltage	60 VDC* or 125 VAC
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Loads	
UL	0.5 A at 125 VAC, resistive, 100k cycles 1 A at 30 VDC, resistive, 100k cycles 0.3 A at 60 VDC, resistive, 100k cycles
Contact materials	AgNi/Au - silver nickel (gold plated)
Minimum switching	50 mA / 6 V
Initial resistance	< 100 mΩ

COIL

Nominal coil DC voltages	see coil voltage specifications tables
Dropout	> 10% of nominal coil voltage
Power at pickup voltage	(typ.)
standard coil	128 mW
sensitive coil	96 mW
Max. continuous dissipation	600 mW at 20°C (68°F) ambient
Max. temperature	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. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy	(minimum operations)
mechanical	5 x 10 ⁶
electrical	1 x 10 ⁵
Operate Time	5 ms (max.) at nominal coil voltage
Release Time	5 ms (max.) at nominal coil voltage, without coil suppression
Dielectric Strength	(at sea level for 1 min.) 1000 V _{RMS} coil to contact 400 V _{RMS} between open contacts
Insulation Resistance	1000 MΩ (min.) at 20°C, 500 VDC, 50% RH
Temperature Range	(at nominal coil voltage)
operating	Standard: -40°C (-40°F) to 70°C (158°F) Sensitive: -40°C (-40°F) to 80°C (176°F)
storage	Both: -40°C (-40°F) to 105°C (221°F)
Vibration resistance	3.3 mm (0.130") DA at 10–55 Hz
Shock resistance	10 g operating
Terminals	Tinned copper alloy, P. C.
Soldering	
max. Temperature	260°C (500°F)
max. Time	5 seconds
Cleaning	
max. Solvent Temp.	80°C (176°F)
max. Immersion Time	30 seconds
Dimensions	
length	12.5 mm (0.49")
width	7.5 mm (0.30")
height	10.0 mm (0.39")
Weight	2.2 grams
Compliance	IEC 61810-1, UL 508, RoHS
Packing unit in pcs	20 per tray / 1000 per carton box

At nominal coil voltage
Standard: -40°C (-40°F) to 70°C (158°F)
Sensitive: -40°C (-40°F) to 80°C (176°F)
Both: -40°C (-40°F) to 105°C (221°F)

AZ9571

COIL VOLTAGE SPECIFICATIONS

Standard Coil

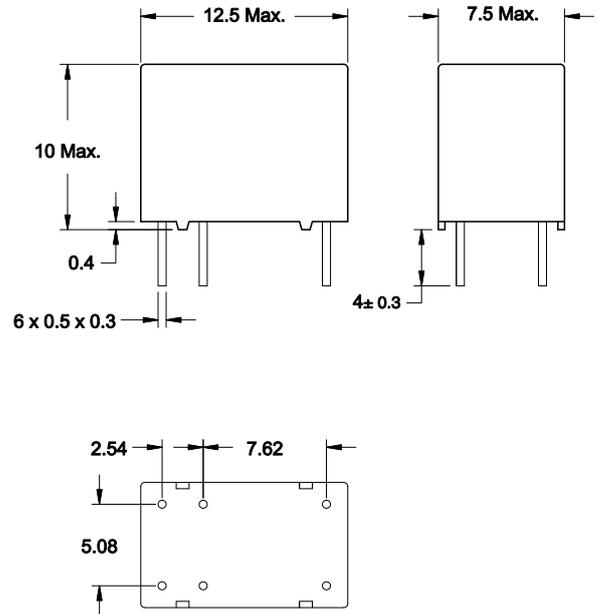
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Resistance Ohm $\pm 10\%$
3	2.4	4.5	45
5	4.0	7.5	125
6	4.8	9.0	180
9	7.2	13.5	405
12	9.6	18.0	720
24	19.2	36.0	2880

Sensitive Coil

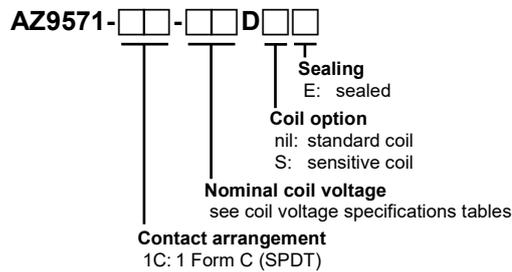
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Resistance Ohm $\pm 10\%$
3	2.4	6.0	60
5	4.0	10.0	167
6	4.8	12.0	240
9	7.2	18.0	540
12	9.6	24.0	960
24	19.2	48.0	3840

MECHANICAL DATA

Dimensions in mm.



ORDERING DATA



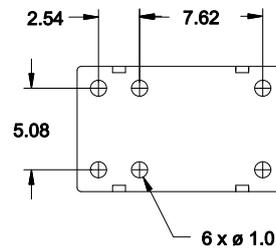
Example ordering data

AZ9571-1C-5DE 5 VDC nominal coil voltage, standard coil, sealed

AZ9571-1C-12DSE 12 VDC nominal coil voltage, sensitive coil, sealed

PC BOARD LAYOUT

Viewed towards terminals.
Dimensions in mm.



WIRING DIAGRAMS

Viewed towards terminals, shown in de-energized condition.

