# AZ9571

## 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			GENERAL DATA		
Arrangement Ratings (max.) switched power	SPDT (1 Form C) (resistive load) 30 W or 62.5 VA		Life Expectancy mechanical elctrical	(minimum operations) 5 x 10 <sup>6</sup> 1 x 10 <sup>5</sup>	
switched current switched voltage		itching voltage is greater than 30 VDC,	Operate Time Release Time	5 ms (max.) at nominal coil voltage 5 ms (max.) at nominal coil voltage, without coil suppression	
Rated Loads UL	special precautions must be taken. Please contact the factory. 0.5 A at 125 VAC, resistive, 100k cycles		Dielectric Strength	(at sea level for 1 min.) 1000 $V_{RMS}$ coil to contact 400 $V_{RMS}$ between open contacts 1000 M $\Omega$ (min.) at 20°C, 500 VDC, 50% RH	
	1 A at 30 VDC, resistive, 100k cycles 0.3 A at 60 VDC, resistive, 100k cycles		Insulation Resistance		
Contact materials	AgNi/Au - silv	ver nickel (gold plated)	Temperature Range operating	(at nominal coil voltage) -30°C (-22°F) to 70°C (158°F)	
Minimum switching	50 mA / 6 V		Vibration resistance	3.3 mm (0.130") DA at 10–55 Hz	
Initial resistance < 100 mg			Shock resistance	10 g operating	
			Terminals	Tinned copper alloy, P. C.	
COIL			Soldering		
Nominal coil DC voltages		see coil voltage specifications tables	max. Temperature max. Time	260°C (500°F) 5 seconds	
Dropout		> 10% of nominal coil voltage	Cleaning	00%0 (470%5)	
Power at pickup voltage standard coil sensitive coil		(typ.) 128 mW 96 mW	max. Solvent Temp. max. Immersion Time	80°C (176°F) 30 seconds	
Sensitive con		90 11100	Dimensions length	12.5 mm (0.49")	
Max. continuous dissipation		600 mW at 20°C (68°F) ambient	width height	7.5 mm (0.30") 10.0 mm (0.39")	
Max. temperature		105°C (221°F)	Weight	2.2 grams	
			Compliance	IEC 61810-1, UL 508, RoHS	
NOTES			Packing unit in pcs	20 per tray / 1000 per carton box	
1 All values at 20°C	(68°F)				

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- All values at 20°C (68°F). Relay may pull in with less than "Must Operate" value. 2. 3.
- Specifications subject to change without notice.

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This product specification to be used only together with the application notes which can be downloaded from www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

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#### **COIL VOLTAGE SPECIFICATIONS**

#### Standard Coil

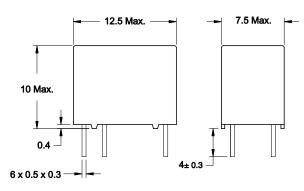
Nominal Coil	Must Operate	Max. Continuous	Resistance
VDC	VDC	VDC	Ohm ± 10%
3	2.4	4.5	45
5	4.0	7.5	125
6	4.8	9.0	180
9	7.2	13.5	405
12	9.6	18.0	720
24	19.2	36.0	2880

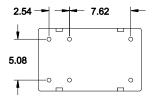
#### Sensitive Coil

Nominal Coil	Must Operate	Max. Continuous	Resistance
VDC	VDC	VDC	Ohm ± 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

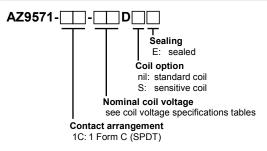
#### **MECHANICAL DATA**

Dimensions in mm.





#### ORDERING DATA



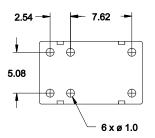
#### Example ordering data

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

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

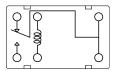
#### PC BOARD LAYOUT

Viewed towards terminals. Dimensions in mm.



#### WIRING DIAGRAMS

Viewed towards terminals, shown in de-energized condition.



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