

SWITCH TYPE	Micro Switches	MODEL NO.	SW5-01N-××-C5
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1. Functional spec.			
1.1 Rated Voltage	250VAC	1.6 Free Position	15.0±1.0mm
1.2 Rated Current	5A	1.7 Operating Position	12.0±1.0mm
1.3 Contact Resistance	≤50mΩ (Initial value)	1.8 Position Travel	
1.4 Operating Force	(××) gf	1.9 Return Force	
1.5 Bounce Time		1.10	

2. Reliable Rating			
2.1 Mechanical Life	100,000 CYCLES	2.5 Hand Soldering Temper	380°C Max 3 Second
2.2 Electrical Life	10,000 CYCLES	2.6 Operating Temper	-15°C - +70°C
2.3 Insulation Resistance	≥100MΩ DC500V (Initial value)	2.7 Shipping/Storage Temper	-25°C - +80°C
2.4 Withstand Voltage	AC1000V 1 minute (Initial value)	2.8 Ambient Humidity Used	<85%RH

3.1 protection against ingress of dust ≤Φ1.0mm (IP5X)	The switches are placed in a position of normal use inside the test chamber. The test is carried out according to the second enclosure of IEC60529-1989. The test shall be continued for a period of 8h. After testing, the switches are taken out of the chamber and left at 25±10°C conditions, Load Rating: 5A 250VAC, test the temperature rise of the switches.	After test: 1. Operating is normal; 2. The temperature rise shall not exceed 50K; 3. Between terminals, terminal and surface of the crust, dielectric withstand in voltage ≥1000V
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3.2 protection against ingress of water (IPX1)	The switches are placed in an oven which the temperature is 70±2°C for 240 hours. Then the switches are taken out of the oven immediately and left at 25±10°C conditions for 16 hours. After that, testing protection against ingress of water. During the testing: the temperature between the water and the samples shall not exceed 5K, and the switches have no electric current.	After test: 1. The body of the switch and the airproof cap have no transmutation, dilapidation, induration; 2. The switch shall withstand the dielectric strength ≥1000V 3. There is no trace of water on insulation which could result in a reduction of creepage distances and clearances below the values specified.
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3.3 reference standards and conditions	IEC60529-1989 IEC61058-1:1996 Environment condition: temperature rang 15°C-35°C.		
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3. Dimension Drawing

The drawing includes three views of the micro switch:

- Front View:** Shows a rectangular switch body with a top cap. Dimensions include a total width of 19.8mm, a top cap width of 7.5mm, and a body width of 4.85mm. The distance between the center of the COM terminal and the NO terminal is 8.8mm, and between the NO and NC terminals is 7.3mm. The total distance between COM and NC is 9.5mm. The terminal diameter is Φ2.3mm. The switch is labeled with 'SW5', 'CE', '5A 250VAC', and 'C', 'NO', 'NC' terminals. Other dimensions include 2.4mm for the top cap height, 2.35mm for the body height, and 0.6mm for the terminal offset.
- Side View:** Shows the profile of the switch with a total height of 10.2mm, a top cap height of 4mm, and a base diameter of Φ2.5mm. The distance from the base to the terminal is 3.2mm.
- SCHEMATIC:** A simple circuit diagram showing a switch with three terminals: COM (Common), NO (Normally Open), and NC (Normally Closed).

Revision	Description		Date	Revisor
Drawing No.		C/0	Tolerance	±0.2
Drawing Model.	SPECIFICATION OF STANDARD TYPE		Unit	mm
Prepared	Reviewed	Approved	Effective date	