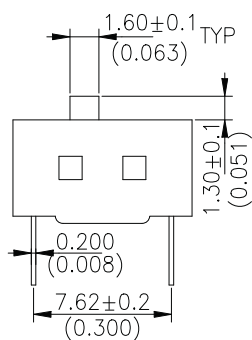
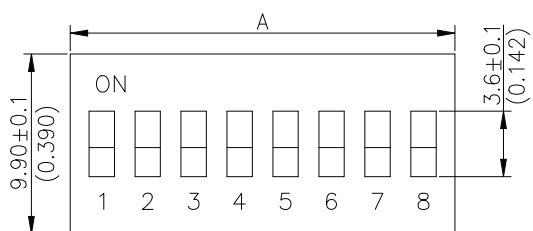
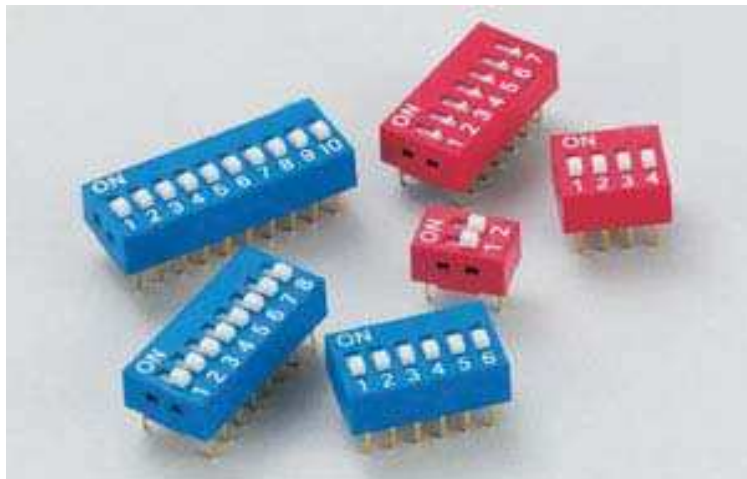


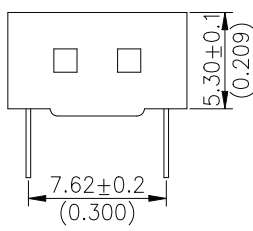
# DIP Switches

## Machine Insertable Type DIP Switches

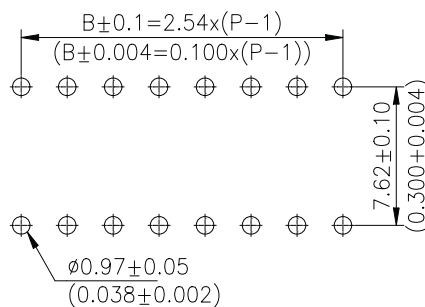
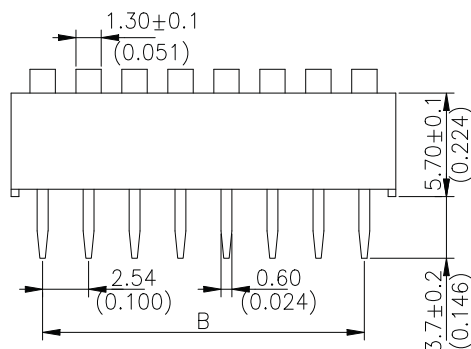
## RSNT Series



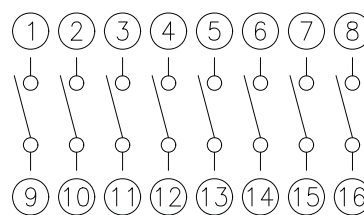
RSNTRA



RSNTRC



P.C.B. LAYOUT



CIRCUIT DIAGRAM

### How to order:

RSNT 1 2 3 4 5

**1 ACTUATOR TYPE:**  
**RA** Raised Actuator  
**RC** Recessed Actuator

**2 NO. OF POSITIONS:**

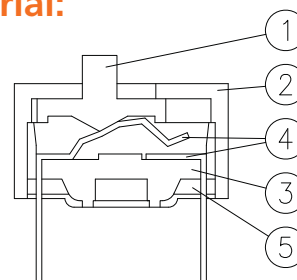
CODE	NO. of POS	DIM.A	DIM.B
01	1 Pos.	3.84(0.151)	—
02	2 Pos.	6.08(0.239)	2.54(0.100)
03	3 Pos.	8.92(0.351)	5.08(0.200)
04	4 Pos.	11.16(0.439)	7.62(0.300)
05	5 Pos.	13.70(0.539)	10.16(0.400)
06	6 Pos.	16.24(0.639)	12.70(0.500)
07	7 Pos.	19.08(0.751)	15.24(0.600)
08	8 Pos.	21.32(0.839)	17.78(0.700)
09	9 Pos.	24.16(0.951)	20.32(0.800)
10	10 Pos.	26.40(1.039)	22.86(0.900)
12	12 Pos.	31.48(1.239)	27.94(1.100)

**3 COLOR OF COVER:**  
**G** Blue  
**C** Red  
**A** Black

**4 SEAL:**  
**N** Regular (Standard)  
**T** Top Tape Sealed  
 (Only for Recessed Actuator)

**5 PACKAGE STYLE:**  
**TB** Tube

### Material:



CONSTRUCTION

ITEM	DES	MATERIALS	TREATMENT
1	ACTUATOR	UL94V-0 PBT THERMOPLASTIC	WHITE
2	COVER	UL94V-0 PBT THERMOPLASTIC	BLUE, RED, BLACK
3	BASE	UL94V-0 PBT THERMOPLASTIC	BLACK
4	TERMINAL	PHOSPHOR BRONZE	GOLD PLATING
5	POTTING	EXPOXY	BLACK

General Tolerance: ± 0.2 mm

### SPECIFICATIONS

#### 1. SPECIFICATIONS.

- 1-1. External appearance: Ref. Attached print.
- 1-2. Material & treatment of parts: Ref. Attached print.
- 1-3. All materials are UL 94V-0 grade fire retardant plastics.
- 1-4. RoHS compliant.

#### 2. FEATURES

- 2-1. This switch is slide switch of one body type that each pole is parallel and it is constituted by one moving contact and two terminals.
- 2.2 Terminal plating by gold give excellent results when soldering.
- 2-3. DX1819RA series (raised actuator) and DX1819RC series (recessed actuator) available for different purposes.
- 2-4. Low contact resistance, and self-clean on contact area.
- 2-5. High reliability.

#### 3. ELECTRICAL

- 3-1. Electrical Life: 2000 operation cycles per switch- 24VDC, 25mA.
- 3-2. Non-switching Rating: 100mA, 50VDC.
- 3-3. Switching Rating: 25mA, 24VDC.
- 3-4. Contact Resistance: (a) 50m $\Omega$  max. at initial.  
(b) 100m $\Omega$  max. after life test.
- 3-5. Insulation Resistance: 100M $\Omega$  min. at 500VDC.
- 3-6. Dielectric Strength: 500VAC/1 minute.
- 3-7. Capacitance: 5pF max.
- 3-8. Circuit: Single pole single throw.

#### 4. MECHANICAL

- 4-1. Mechanical life: 2000 operations per switch.
- 4-2. Operation Force: 800gf max.
- 4-3. Stroke: 2.0 mm.
- 4-4. Operation Temp: -25°C to 70 °C
- 4-5. Storage Temp: - 40°C to 85°C
- 4-6. Vibration Test: MIL-STD-202F METHOD 201A  
Frequency: 10-55-10 Hz/1 min  
Directions: X, Y, Z, three mutually perpendicular directions.  
Time: 2 hours each direction.  
High reliability.
- 4-7. Shock Test: MIL-STD-202F METHOD 213B CONDITION A.
- 4-8. Gravity: 50G (peak value), 11msec.
- 4-9. Direction and times: 6 sides and 3 times in each direction. High reliability.

#### 5. SOLDERING PROCESSES.

- 5-1. Keep all switch contacts in their "OFF" position for all operation.
- 5-2. Wave soldering: Recommended solder temperature at 500°F (260°C) max. 5 seconds.
- 5-3. Hand soldering: Use a soldering iron of 30 watts or less, controlled at 608°F (320°C), approximately 2 seconds while applying solder.

#### 6. FLUX CLEANING :

- 6-1. Solvent: Fluorine or Alcohol type.
- 6-2. Cleaning shall be made when terminal temperature falls to 90°C or lower, or leave the switch at normal temperature for 5 minutes or longer, before cleaning.
- 6-3. Do not apply ultrasonic cleaning.
- 6-4. "LE" type are not washable.
- 6-5. Do not operate the switch during soldering and cleaning.

#### 7. WEATHER-PROFF

- 7-1. Resistance Low Temperature:
  - (1) Temperature: - 40°C  $\pm$  3°C
  - (2) Time: 96 hours.
- 7-2. Resistance High Temperature:
  - (1)Temperature: - 85°C  $\pm$  2°C
  - (2)Time: 96 hours.
- 7-3. Resistance Humidity:
  - (1)Temperature: 40°C  $\pm$  2°C
  - (2)Relative Humidity: 90-95%
  - (3)Time: 96 hours.