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Jameco Part Number 38820

## Models: RS/RSR SERIES DIP SWITCH

### 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.

### 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. RS series (raised actuator) and RSR 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 max. at initial.  
(b) 100m max. after life test.
- 3-5. Insulation Resistance: 100M 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: 2.0mm.
  
- 4-4. Operation Temp: - 25 to 70
- 4-5. Storage Temp: - 40 to 85

#### 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 (260 ) max. 5 seconds.

5-3. Hand soldering: Use a soldering iron of 30 watts or less, controlled at 608 (320 ), 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 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-PROOF

7-1. Resistance Low Temperature:

(1) Temperature: - 40  $\pm$  3 .

(2) Time: 96 hours.

7-2. Resistance High Temperature:

(1) Temperature: 85  $\pm$  2

(2) Time: 96 hours.

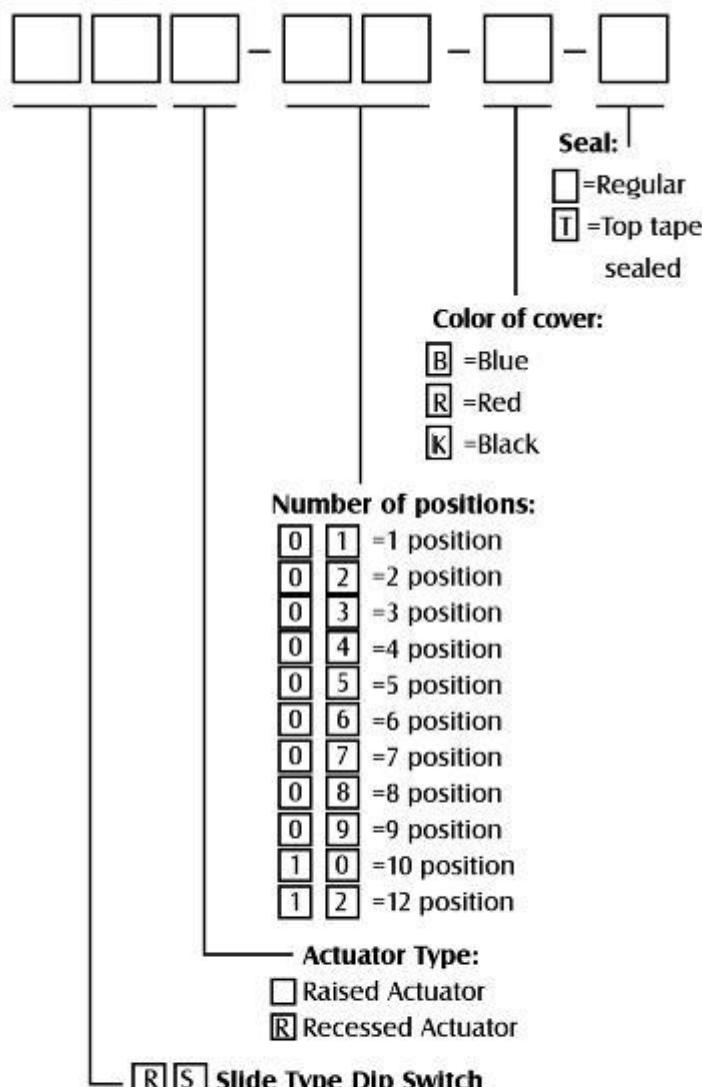
7-3. Resistance Humidity:

(1) Temperature: 40  $\pm$  2

(2) Relative Humidity: 90-95%

(3) Time: 96 hours.

## 8. PART NUMBER SYSTEM

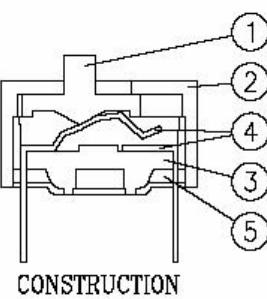
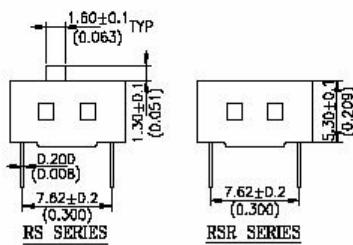
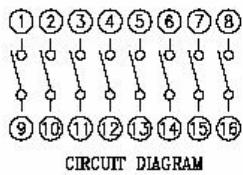
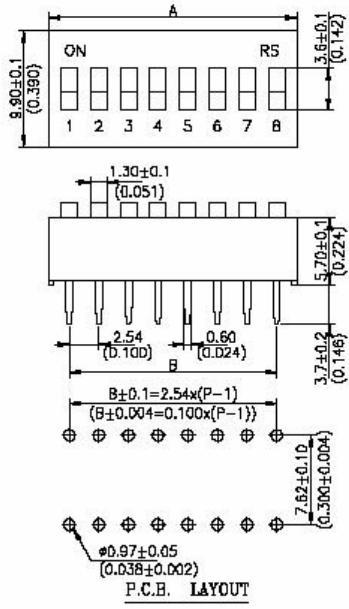


**Example:** RS-08-B-T is a slide type dip switch, raised actuator, 8 position, blue cover with top tape sealed.

### PACKING

All Dip Switches are shipped in standard IC tubes with all poles in "OFF" position.

MODEL NO:RS/RSR series  
DIMENSION:(UNIT:mm/inches)



Prod No.	No.ofPOS	DIM.A	DIM.B
RS/RSR-01	01	3.84(0.151)	—
RS/RSR-02	02	6.08(0.238)	2.54(0.100)
RS/RSR-03	03	8.92(0.351)	5.08(0.200)
RS/RSR-04	04	11.16(0.438)	7.82(0.300)
RS/RSR-05	05	13.70(0.539)	10.16(0.400)
RS/RSR-06	06	16.24(0.639)	12.70(0.500)
RS/RSR-07	07	19.08(0.751)	15.24(0.600)
RS/RSR-08	08	21.32(0.839)	17.78(0.700)
RS/RSR-09	09	24.16(0.951)	20.32(0.800)
RS/RSR-10	10	26.40(1.038)	22.86(0.900)
RS/RSR-12	12	31.46(1.239)	27.94(1.100)

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

一般公差	PART NAME:	PART NO:
尺寸範圍	SLIDE TYPE DIP SWITCH	RS-□□
0-4	±0.05	RSR-□□
4-16	±0.1	SCALE
16-50	±0.15	UNIT mm(N)
		3RD