

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. RJ series (raised actuator) and RJR series (recessed actuator) available for different purposes.
- 2-3. Low contact resistance, self-clean on contact area.
- 2-4. Gold plated contact to ensure low contact resistance and gold plated terminal to prevent contamination during soldering
- 2-5. Double contacts offers 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 Ω max. at initial.
(b) 100m Ω max. after life test.
- 3-5. Insulation Resistance: 100M Ω min. at 500VDC.
- 3-6. Dielectric Strength: 500VAC/1 minute.
- 3-7. Capacitance: 5pF max.
- 3-8. Circuit: Single pole single throw.

4. MECHANICAL

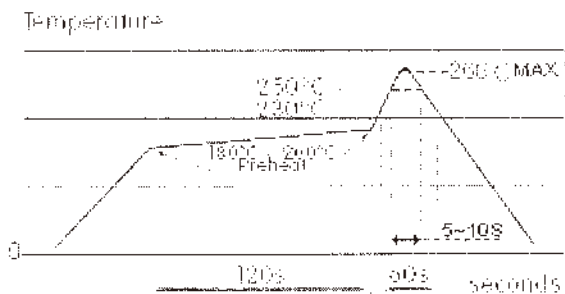
- 4-1. Mechanical life: 2000 operations per switch.
- 4-2. Operation Force: 600gf max.
- 4-3. Stroke: 0.9mm.
- 4-4. Operation Temp: - 25 $^{\circ}$ C to 70 $^{\circ}$ C
- 4-5. Storage Temp: -40 $^{\circ}$ C to 85 $^{\circ}$ C
- 4-6. Vibration Test: MIL-STD-202F METHOD 201A
Frequency: 10-55-10 Hz/1 min
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. Hand soldering: Use a soldering iron of 30 watts or less, controlled at 350°C, approximately 3 seconds while applying solder.
- 5-3. Condition for soldering RM/RMR series:

Reflow Temperature Profile. (reference)



Remark: The switch's surface temperature not allow to exceed 260°C .

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: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$.
- (2) Time: 96 hours.

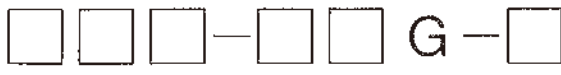
7-2. Resistance High Temperature:

- (1) Temperature: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$.
- (2) Time: 96 hours.

7-3. Resistance Humidity:

- (1) Temperature: 40°C ± 2°C.
- (2) Relative Humidity: 90-95%
- (3) Time: 96 hours.

8. PART NUMBER SYSTEM



Seal:
=Regular
=Top tape sealed

Number of positions:

- 1=1 position
- 2=2 position
- 3=3 position
- 4=4 position
- 5=5 position
- 6=6 position
- 7=7 position
- 8=8 position
- 9=9 position
- 0=10 position
- 1 2=12 position

Actuator Type:

- =Raised Actuator
- =Recessed Actuator (Top Tape Sealed Available Only)

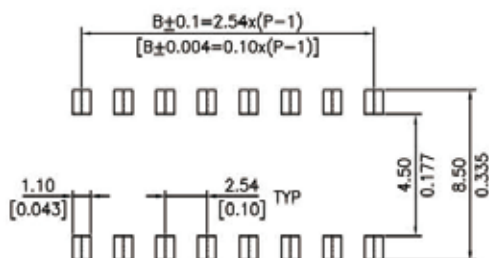
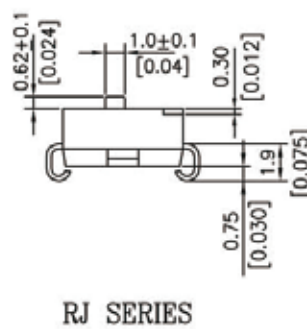
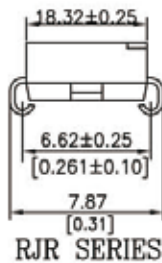
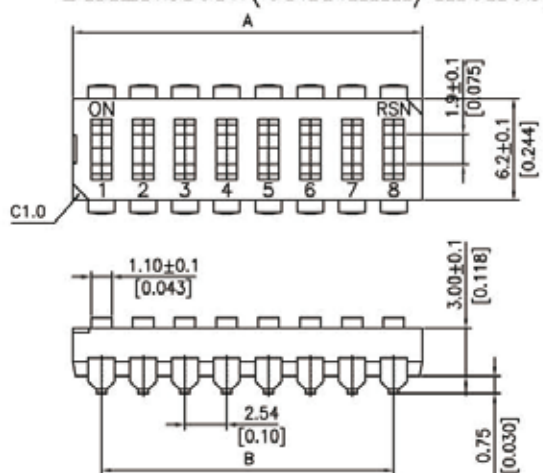
=Surface Mounting Type Dip Switch

Example: RJR-08G-T is a surface mounting type Dip Switch,
 Recessed Actuator 8 position with top tape sealed.

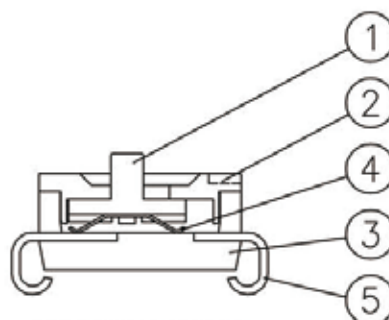
PACKING: All DIP Switches are shipped in standard IC tubes
 with all poles in the "OFF" position.

Dip Switch RJ RJR Series

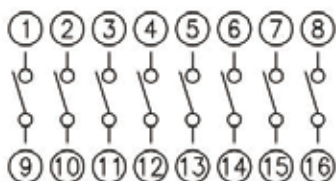
MODEL NO:RJ/RJR series
DIMENSION:(UNIT:mm/inches)



P.C.B. LAYOUT



CONSTRUCTION



CIRCUIT DIAGRAM

一般公差		PART NAME: SURFACE MOUNTING TYPE DIP SWITCH	PART NO: RJ-□□ RJR-□□	
尺寸範圍	容許值		SCALE	UNIT
0-4	±0.05	LIGHT COUNTRY CO.,LTD	mm(IN)	
4-16	±0.1			
16-50	±0.15			

Prod No.	No.ofPOS	DIM.A	DIM.B
RJ/RJR-01	01	3.48(0.137)	—
RJ/RJR-02	02	6.02(0.237)	2.54(0.100)
RJ/RJR-03	03	8.56(0.337)	5.08(0.200)
RJ/RJR-04	04	11.10(0.437)	7.62(0.300)
RJ/RJR-05	05	13.64(0.537)	10.16(0.400)
RJ/RJR-06	06	16.18(0.637)	12.70(0.500)
RJ/RJR-07	07	18.72(0.737)	15.24(0.600)
RJ/RJR-08	08	21.26(0.837)	17.78(0.700)
RJ/RJR-09	09	23.80(0.937)	20.32(0.800)
RJ/RJR-10	10	26.34(1.037)	22.86(0.900)
RJ/RJR-12	12	31.42(1.237)	27.94(1.100)

ITEM	DES	MATERIALS	TREATMENT
1	ACTUATOR	UL94V-0 NYLON	MOLDED WHITE
2	COVER	UL94V-0 NYLON	MOLDED BLACK
3	BASE	UL94V-0 NYLON	MOLDED BLACK
4	CONTACT	ALLOY COPPER	GOLD PLATED AT CONTACT AREA
5	TERMINAL	BRASS	GOLD PLATING