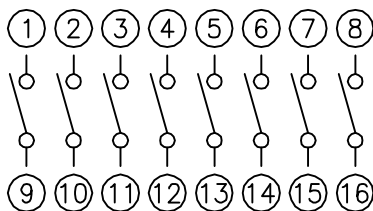
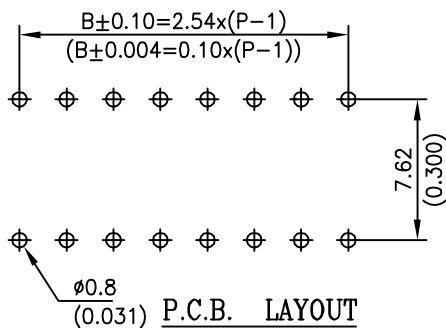
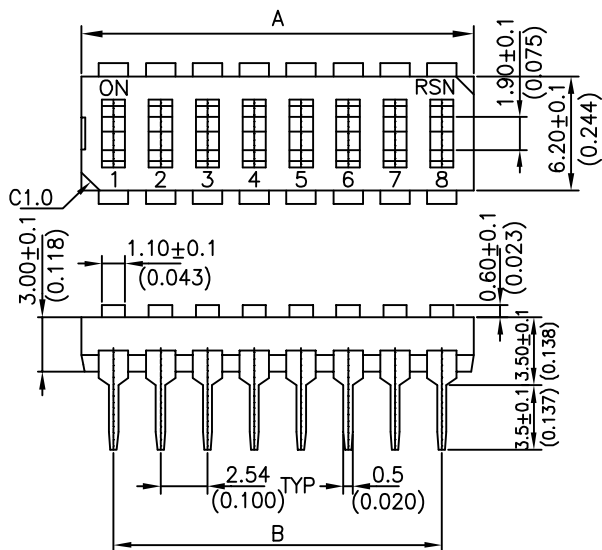
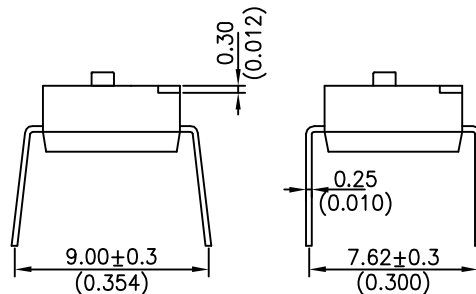


MODEL NO:RI/RIR series  
DIMENSION:(UNIT:mm/inches)

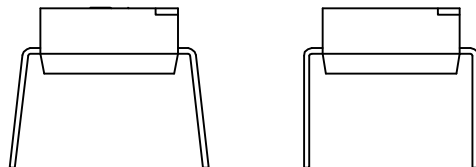


CIRCUIT DIAGRAM



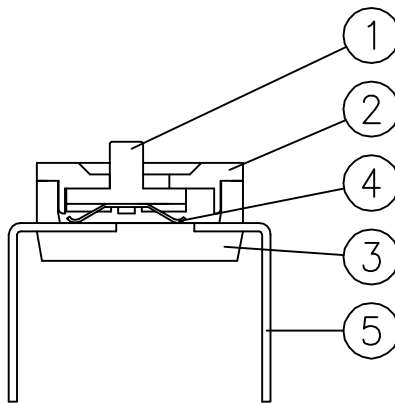
RI-□□-S

RI-□□-H



RIR-□□-S


RIR-□□-H



CONSTRUCTION

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

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

一般公差		PART NAME: MACHINE INSERT TABLE TYPE DIP SWITCH	PART NO: RI-□□ RIR-□□	
尺寸範圍	容許值		SCALE	
0-4	±0.05	 瑞森實業有限公司 RUEY SHEN ELECTRONICS INC.	UNIT	mm(IN)
4-16	±0.1		3RD	⊕
16-50	±0.15			

## Models: RI/RIR 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. RI series (raised actuator) and RIR series (recessed actuator) available for different purposes.
- 2-3. Splay terminals allow for automatic insertion by IC insertion machine.
- 2-4. Straight terminals are available for manual insertion.
- 2-5. Low contact resistance, self-clean on contact area.
- 2-6 Gold plated contact to ensure low contact resistance and tin plated terminal to prevent contamination during soldering.
- 2-7. 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 $\Omega$  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: 600gf max.
- 4-3. Stroke: 0.9mm.
- 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 ± 3 °C

(2) Time: 96 hours.

7-2. Resistance High Temperature:

(1)Temperature: - 85°C ± 2 °C

(2)Time: 96 hours.

7-3. Resistance Humidity:

(1)Temperature: 40°C ± 2°C

(2)Relative Humidity: 90-95%

(3)Time: 96 hours.