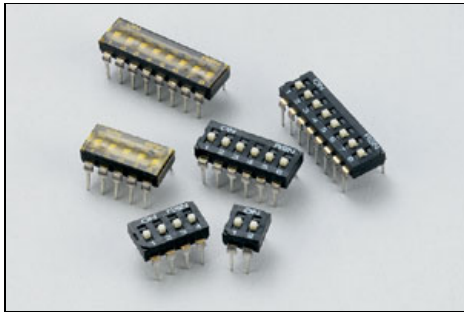




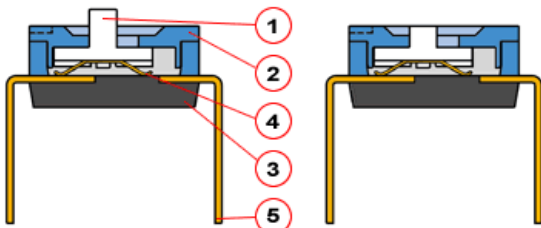
**Dip Switch RI Series**

**RoHS Compliant**

**RI,RIR Series** Machine Insertable Type Dip Switch



**RI & RIR CONSTRUCTION**



RI series

RIR series

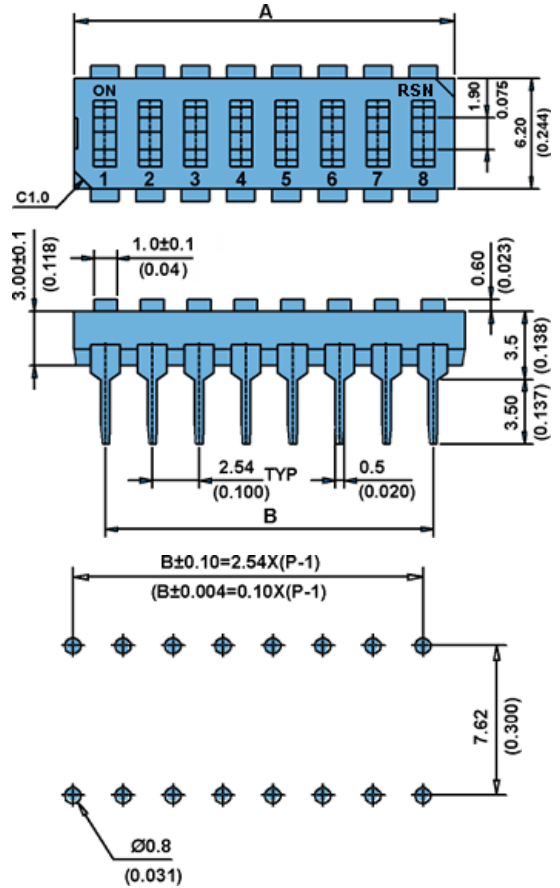
1. RI series (raised actuator) and RIR series (recessed actuator) available for different purposes.
2. Splay terminals allow for automatic insertion by IC insertion machine.
3. Straight terminals are available for manual insertion.
4. Low contact resistance, and self-clean on contact area.
5. Gold plated electrical contact and terminal plating by gold gives excellent results when soldering.
6. All materials are UL94V-0 grade fire retardant plastics.

ITEM	Description	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	Beryllium Copper	Gold plated at contact area
5	Terminal	Brass	Gold plated at contact area and gold plating at terminal

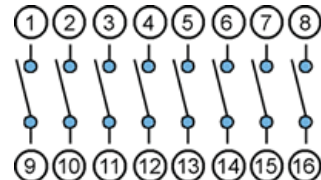
**MODEL**

PROD NO.	NO. OF POS	DIM A	
RI/RIR-01G	01	3.48	0.137
RI/RIR-02G	02	6.02	0.237
RI/RIR-03G	03	8.56	0.337
RI/RIR-04G	04	11.1	0.437
RI/RIR-05G	05	13.64	0.537
RI/RIR-06G	06	16.18	0.637
RI/RIR-07G	07	18.72	0.737
RI/RIR-08G	08	21.26	0.837
RI/RIR-09G	09	23.8	0.937

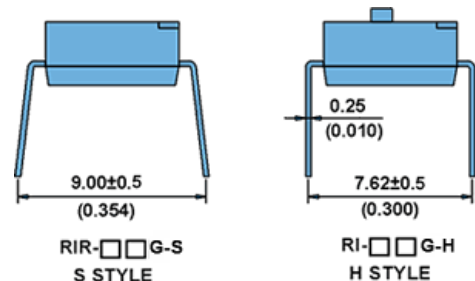
**P.C.B. LAYOUT**



**CIRCUIT DIAGRAM**



**TERMINAL TYPE**



**SPECIFICATION**

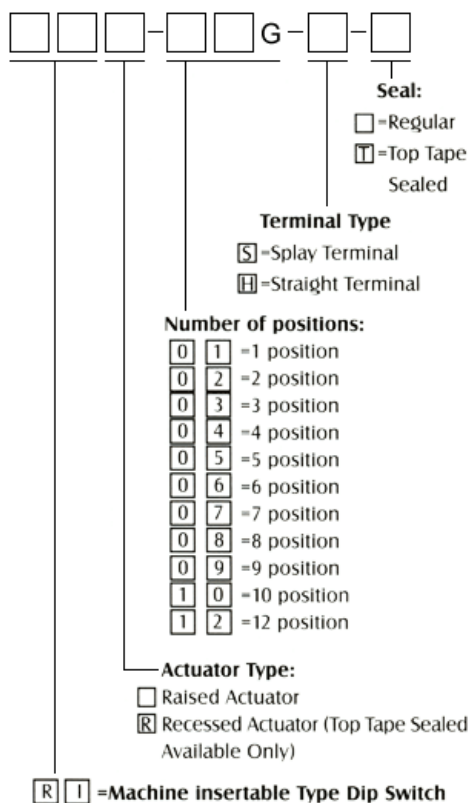
**ELECTRICAL**  
 Electrical life: 2000 operation cycles per switch 24VDC, 25mA  
 Non-Switching Rating: 100mA, 50 VDC  
 Switching Rating: 25mA, 24VDC.  
 Contact resistance: (a) 50mΩ max. at initial  
 (b) 100mΩ max. after life test.  
 Insulation resistance: 100MΩ min. (at 500VDC)



## Dip Switch RI Series

RI/RIR-10G	10	26.34	1.037
RI/RIR-12G	12	31.42	1.237

### HOW TO ORDER



**Example:** RI-08G-S is a Machine Insertable Type Dip Switch, Raised Actuator 8 position, splay terminal.

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

Dielectric Strength: 500VAC/1 minute.  
 Capacitance: 5pF max.  
 Circuit: Single pole single throw

### MECHANICAL

Mechanical life: 2000 operations per cycle switch  
 Operation Force: 600gf max.  
 Stroke: 0.9mm

Operation Temp: -25° C to +70° C  
 Storage Temp: -40° C to +85° C

Vibration Test: MIL-STD-202F METHOD 201A

Frequency: 10-55-10Hz/1 min  
 Directions: X, Y, Z, three mutually perpendicular directions.

Time: 2 hours each direction.  
 High reliability.

Shock Test: MIL-STD-202F METHOD 213B.

CONDITION A

GRAVITY: 50G (peak value), 11 m/sec.

Direction and times: 6 sides and three times in each direction. High reliability.

### SOLDERING AND CLEANING PROCESSES

For best results, please follow these recommendations: Keep all switch contacts in their "OFF" position for all operations.

**WAVE SOLDERING:** Recommended solder temperature at 500 F (260° C) max 5 seconds.

**HAND SOLDERING:** Use a soldering iron of 30 watts, controlled at 608 F(320° C) approximately 2 seconds while applying solder.

**CLEANING PROCESS:** Flux clean using force rinse, high agitation or triple bath cleaning method. Freon TF or TE give excellent results. When vapor methods are used, do not subject the switch to solvents at temperatures above 125 F (51° C).