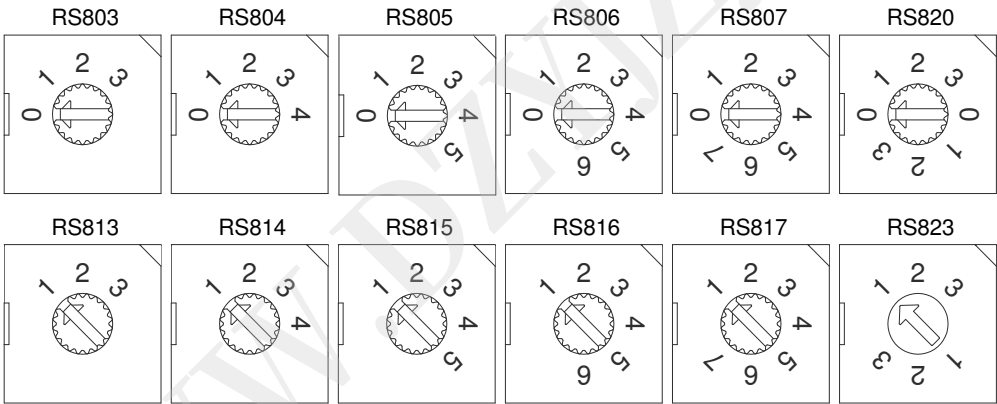
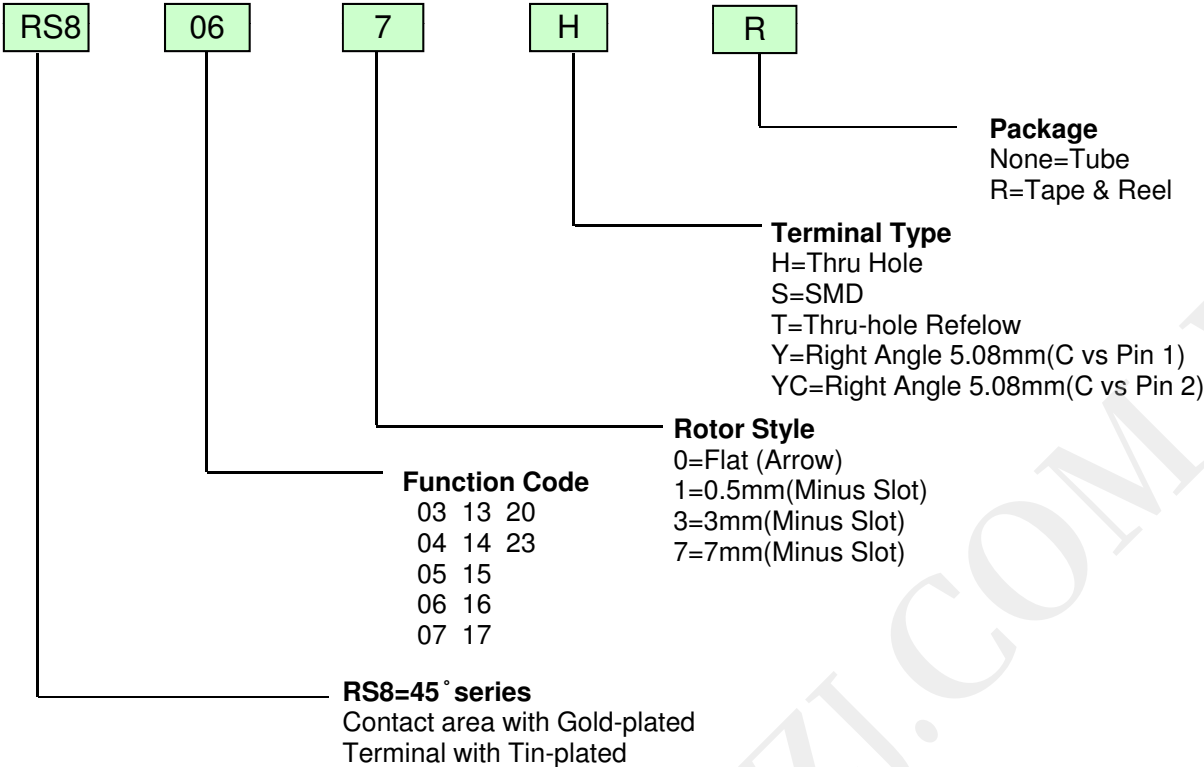
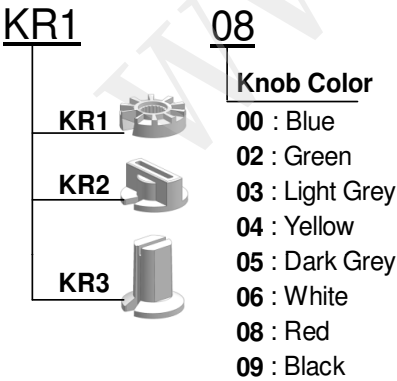


MODEL	SPECIFICATION		Page
RS8 Series Rotary Switch	Rotary Selector Switch RoHS&REACH Compliant / Halogen Free	SP-001	1/6

Order Information



Knob Order Information



- Note:**
1. All caps are not allowed to pass through soldering process.
 2. All caps should be assembled after all soldering process finished.

MODEL	SPECIFICATION		Page
RS8 Series Rotary Switch	Rotary Selector Switch RoHS&REACH Compliant / Halogen Free	SP-002	2/6

Specifications

◆ Contact Rating	
Switching	 5VDC 100mA (Min. AC/DC 100mA 1μA)
Non Switching	 Max. 50VDC 100mA
◆ Contact	 100mΩ Max.
◆ Insulation Resistance	 100MΩ Max. at 100 VDC
◆ Dielectric Strength	 300VAC for 1 minute
◆ Operating Force	 250gf/cm
◆ Life	 20,000 Steps
◆ Operating Temperature	 -20℃ ~ +70℃
◆ Storage Temperature	 -20℃ ~ +70℃
◆ Waterproof	 Meet IP67

Materials

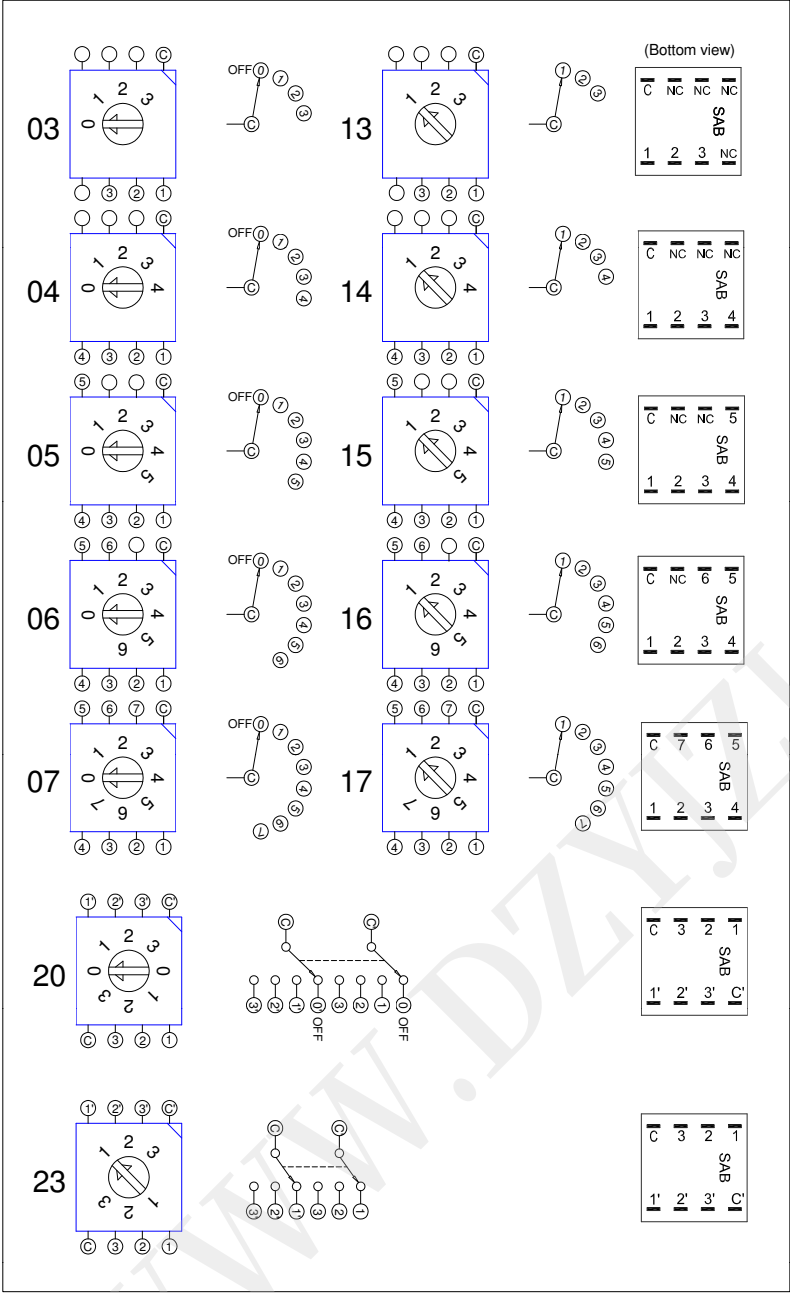
◆ Cover & Base	RS8-H/Y Halogen Free..... Thermoplastic UL 94 rate, Blue
	RS8-S/T Halogen Free..... Thermoplastic UL 94 rate, Black
◆ Rotor	Halogen Free..... Thermoplastic UL 94 rate, White
◆ Knob	Halogen Free..... Thermoplastic, ABS UL 94 rate
◆ "O" Ring	 Silicone Rubber
◆ Step	 Stainless Steel
◆ Spacer	 Stainless Steel
◆ Movable Contact	 Gold Plated
◆ Terminal Contact	 Gold Plated
◆ Terminal	 Tin Plated

Part Number Table

Function Code	H/T Type Flat Rotor Tube Package	H/T Type 3mm Rotor Tube Package	SMD Type Flat Rotor Taping Reel	SMD Type 7mm Rotor Tube Package	Y Type Flat Rotor Tube Package	Y Type 0.5mm Rotor Tube Package	YC Type 0mm Rotor Tube Package	YC Type 7mm Rotor Tube Package
03	RS8030H/T	RS8033H/T	RS8030S-R	RS8037S	RS8030Y	RS8031Y	RS8030YC	RS8037YC
04	RS8040H/T	RS8043H/T	RS8040S-R	RS8047S	RS8040Y	RS8041Y	RS8040YC	RS8047YC
05	RS8050H/T	RS8053H/T	RS8050S-R	RS8057S	RS8050Y	RS8051Y		
06	RS8060H/T	RS8063H/T	RS8060S-R	RS8067S	RS8060Y	RS8061Y		
07	RS8070H/T	RS8073H/T	RS8070S-R	RS8077S	RS8070Y	RS8071Y		
13	RS8130H/T	RS8133H/T	RS8130S-R	RS8137S	RS8130Y	RS8131Y	RS8130YC	RS8137YC
14	RS8140H/T	RS8143H/T	RS8140S-R	RS8147S	RS8140Y	RS8141Y	RS8140YC	RS8147YC
15	RS8150H/T	RS8153H/T	RS8150S-R	RS8157S	RS8150Y	RS8151Y		
16	RS8160H/T	RS8163H/T	RS8160S-R	RS8167S	RS8160Y	RS8161Y		
17	RS8170H/T	RS8173H/T	RS8170S-R	RS8177S	RS8170Y	RS8171Y		
20	RS8200H/T	RS8203H/T	RS8200S-R	RS8207S	RS8200Y	RS8201Y		
23	RS8230H/T	RS8233H/T	RS8230S-R	RS8237S	RS8230Y	RS8231Y		

MODEL	SPECIFICATION		Page
RS8 Series Rotary Switch	Rotary Selector Switch RoHS&REACH Compliant / Halogen Free	SP-003	3/6

Schematic & Terminal Connection



Dummy Terminals

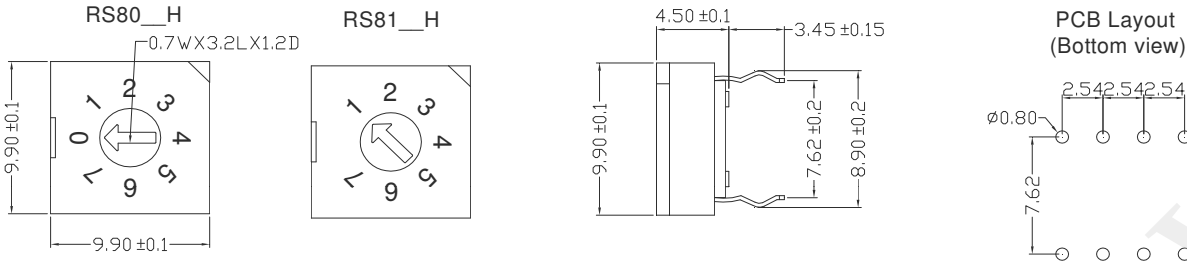
3 positions	4 5 6 7
4 positions	5 6 7
5 positions	6 7
6 positions	7
7 positions	--

* NC= Dummy terminal

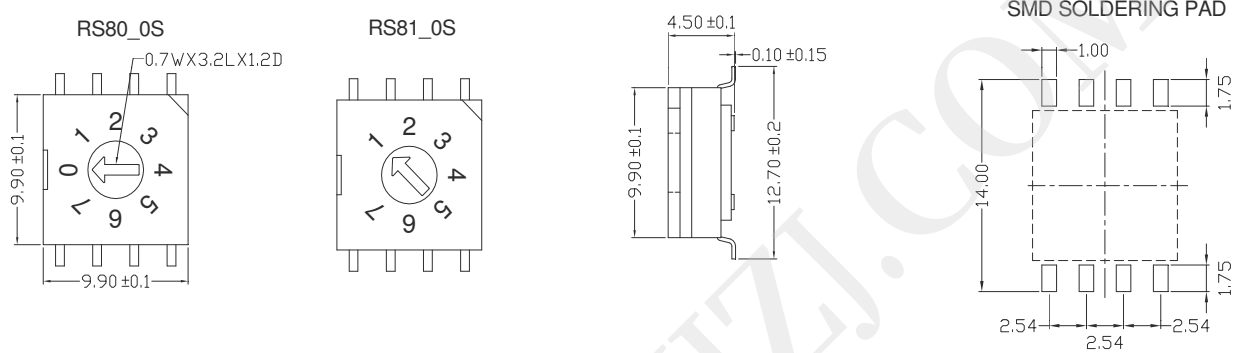
MODEL	SPECIFICATION Rotary Selector Switch RoHS&REACH Compliant / Halogen Free	SP-004	Page
RS8 Series Rotary Switch			4/6

■ Outline Dimensions

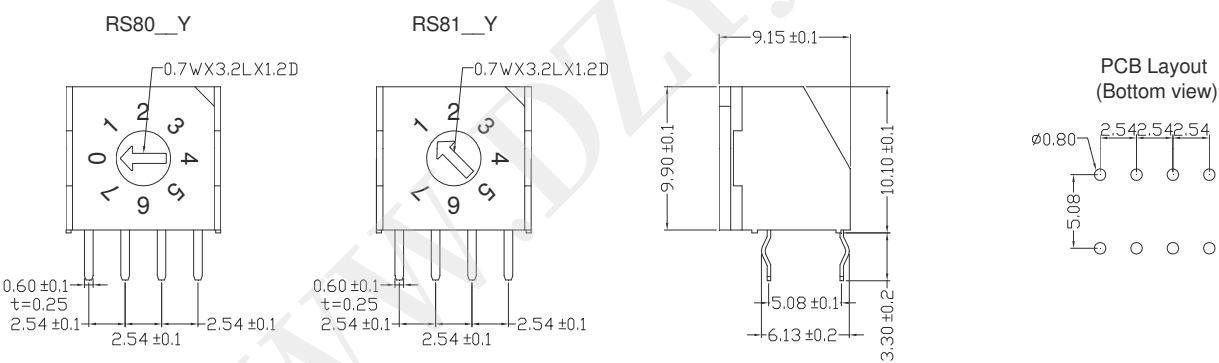
RS803~07 / 13~17 / 20,23_H (Thru-Hole)



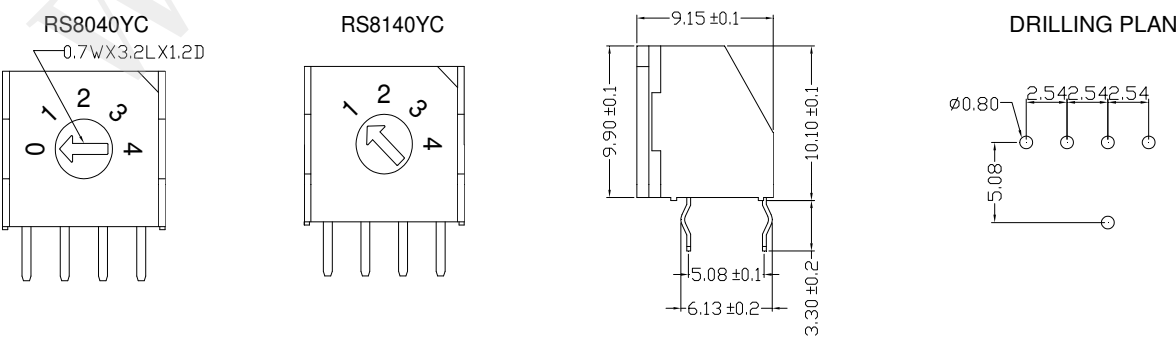
RS803~17/13~17/20,23_S (SMD)



RS803~07/13~17/20,23_Y (Right Angle 5.08mm, C vs Pin 1)



RS8_4_YC (Right Angle 5.08mm, C vs Pin 2)



MODEL	SPECIFICATION DIP SWITCH RoHS&REACH Compliant / Halogen Free	SP-005	Page
RS8 series Rotary Switch			5/6

Soldering Information

◆ Hand Soldering

Soldering iron 30W or under at 350°C for 3 sec. max. or at 270°C for 5 sec. max.

◆ Reflow Soldering

260°C +/-5°C within 30sec for reflow, In-line or Batch system.

◆ Wave Soldering

- (1) For lead free wave solder simulation of typical components, the solder bath temperature shall be maintained to 270°C/ 5~10 seconds.
- (2) **THR: 280°C/10seconds**

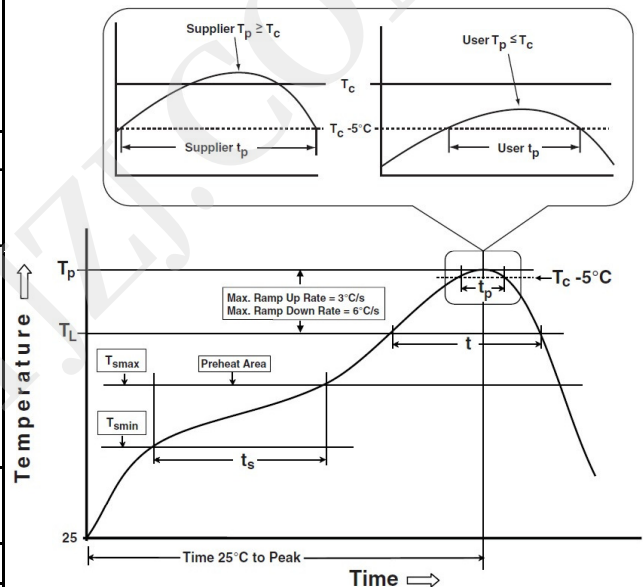
The table copy from IPC/JEDEC J-STD-020 D.1

Profile Feature	Pb-Free Assembly
Preheat / Soak	
Temperature Min (T_{smin})	150°C
Temperature Max (T_{smax})	200°C
Time(t_s) from (T_{smin} to T_{smax})	60 ~120 seconds
Ramp-up Rate (T_L to T_p)	3°C /second max
Liquidous temperature (T_L)	217°C
Time (t_L) maintained above T_L	60 ~ 150 seconds
Peak package body temperature (T_p)	For users T_p must not exceed the Classification temp:250°C (Package Thickness>2.5mm) For suppliers T_p must equal or exceed the Classification temp:250°C (Package Thickness>2.5mm)
Time (t_p) within 5°C of specified classification temperature (T_c)	30 seconds
Ramp-Down Rate (T_p to T_L)	6°C /second max
Time 25°C to Peak Temperature	8 minutes max
* Tolerance for peak profile temperature(T_p) is defined as a supplier minimum and a user maximum	

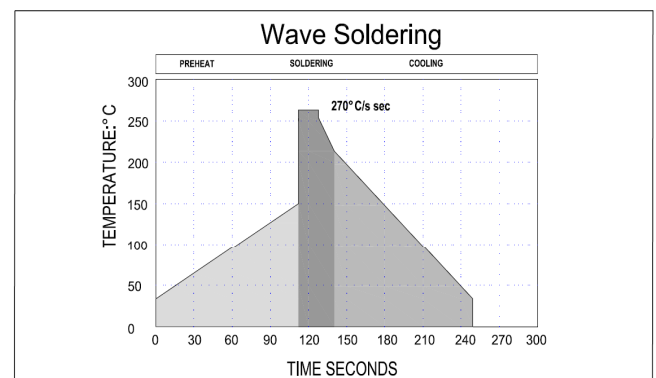
Note 1: All temperatures refer to topside of the package, measured on the package body surface.

Note 2: Time within 5 °C of actual peak temperature (t_p) specified for the reflow profiles is a "supplier" minimum and "user" maximum.

Classification Reflow Soldering Profiles



Classification Wave Soldering Profiles



Maximum dwell time in the solder wave (270°C) shall not exceed 5 seconds.

