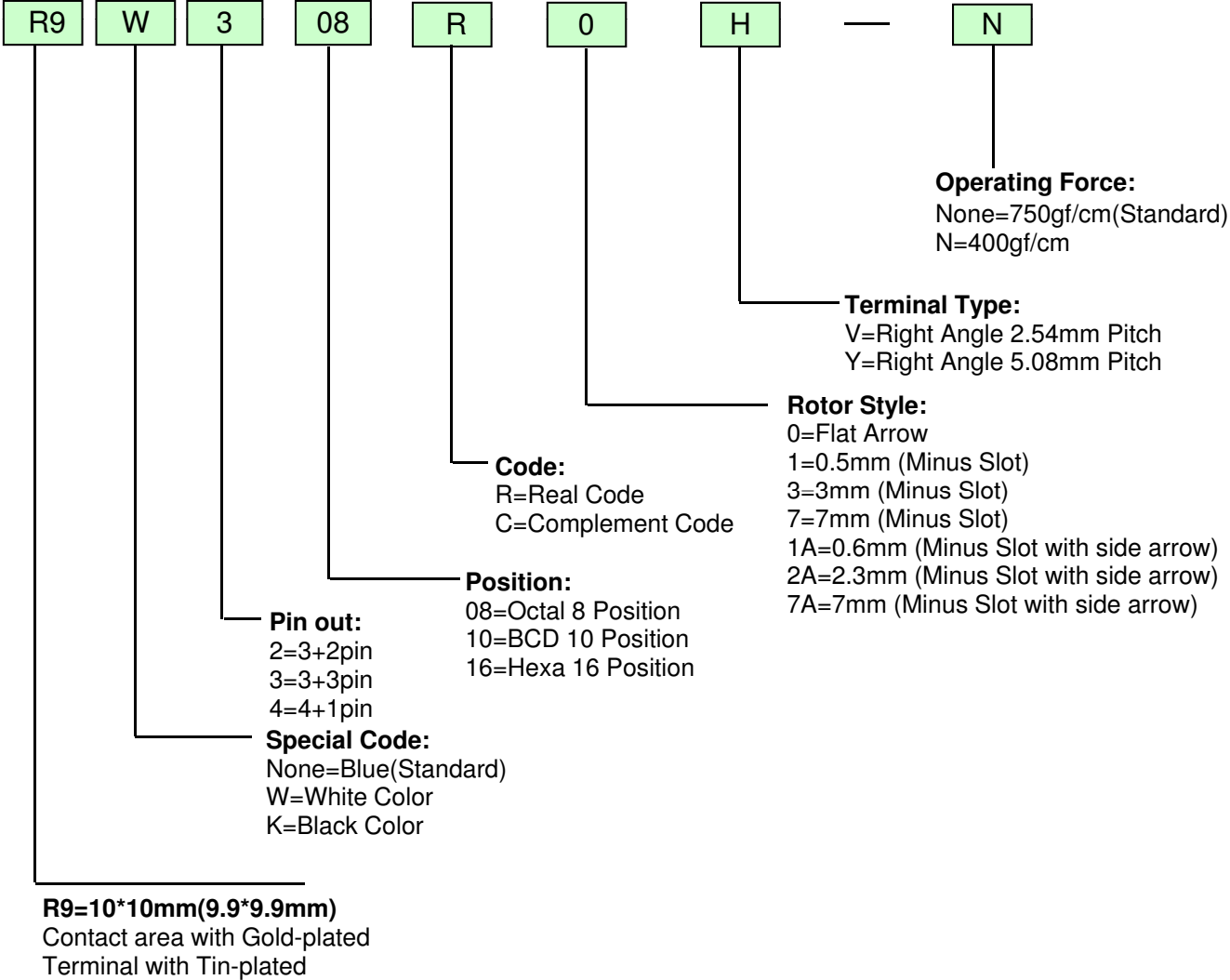
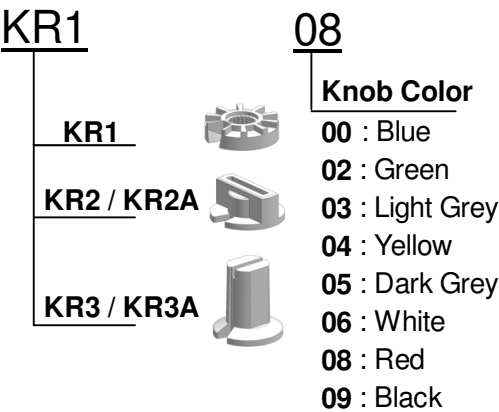


MODEL	SPECIFICATION		Page
R9 Series Right Angle Type	Rotary Coded Switch RoHS&REACH Compliant / Halogen Free	SP-001	1/5

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
Blue Series	Rotary Coded Switch	SP-002	2/5
Right Angle Type	RoHS&REACH Compliant / Halogen Free		

Specifications

◆ Contact Rating		
Switching	.....	5VDC 20mA (Min. AC/DC 20mA 1μA)
Non Switching	.....	Max. 50VDC 100mA
◆ Contact	.....	100mΩ Max.
◆ Insulation Resistance	.....	1,000MΩ Min. at 100 VDC
◆ Dielectric Strength	.....	250VAC for 1 minute
◆ Operating Force	.....	750gf/cm (Standard)
	.....	400gf/cm Max. (N)
◆ Life	.....	20,000 Steps
◆ Operating Temperature	.....	-40℃ ~ +85℃
◆ Storage Temperature	.....	-40℃ ~ +85℃
◆ Waterproof	.....	Meet IP67

Materials:

◆ Cover & Base	Halogen Free (R9).....	Thermoplastic UL 94 rate, Blue
	Halogen Free (R9W).....	Thermoplastic UL 94 rate, White
	Halogen Free (R9K).....	Thermoplastic UL 94 rate, Black
◆ Rotor	Halogen Free (R93/R92).....	Thermoplastic UL 94 rate, White/Red
	Halogen Free (R94).....	Thermoplastic UL 94 rate, Gray/Green
◆ 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

Code Format:

No. of Positions			16 Positions															
			10 Positions															
Position			0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Code	Real Code	8									●	●	●	●	●	●	●	●
		4					●	●	●	●					●	●	●	●
		2			●	●			●	●			●	●			●	●
		1		●		●		●		●		●		●		●		●
	Complemen -tary Code	$\overline{8}$	●	●	●	●	●	●	●	●								
		$\overline{4}$	●	●	●	●					●	●	●	●				
		$\overline{2}$	●	●			●	●			●	●			●	●		
		$\overline{1}$	●		●		●		●		●		●		●		●	

MODEL	SPECIFICATION Rotary Coded SWITCH RoHS&REACH Compliant / Halogen Free	SP-003	Page
R9 series Right Angle Type			3/5

Position

8 Position		10 Position		16 Position	
R92/93	R94	R92/93	R94	R92/93	R94

Rotor Style

Standard Rotor	0 (Flat Type)	1 (0.5mm)	3 (3mm)	7 (7mm)
A type Rotor	1A (0.6mm)	2A (2.3mm)	7A (7mm)	

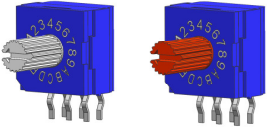
Rotor Color

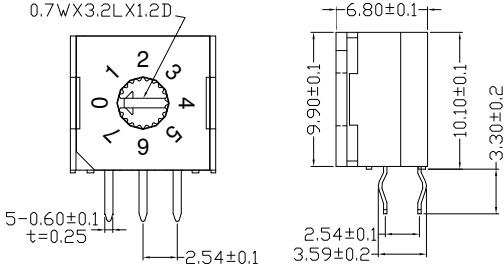
Real Code		Complement Code	
R93/R92 (White)	R94 (Grey)	R93/R92 (Red)	R94 (Green)

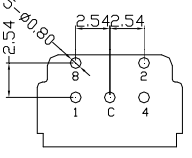
Part Number Table:

Pin Out	No. Pos.	Real Code			Complementary Code		
		V Type Flat Rotor Tube Package	Y Type 2.3mm Rotor Tube Package	Y Type 7mm Rotor Tube Package	V Type 0.6mm Rotor Tube Package	Y Type 3mm Rotor Tube Package	V Type 7mm Rotor Tube Package
3+2	08	R9208R0V	R9208R2AY	R9208R7Y	R9208C1AV	R9208C3Y	R9208C7V
	10	R9210R0V	R9210R2AY	R9210R7Y	R9210C1AV	R9210C3Y	R9210C7V
	16	R9216R0V	R9216R2AY	R9216R7Y	R9216C1AV	R9216C3Y	R9216C7V
3+3	08	R9308R0V	R9308R2AY	R9308R7Y	R9308C1AV	R9308C3Y	R9308C7V
	10	R9310R0V	R9310R2AY	R9310R7Y	R9310C1AV	R9310C3Y	R9310C7V
	16	R9316R0V	R9316R2AY	R9316R7Y	R9316C1AV	R9316C3Y	R9316C7V
4+1	08	R9408R0V			R9408C1AV		R9408C7V
	10	R9410R0V			R9410C1AV		R9410C7V
	16	R9416R0V			R9416C1AV		R9416C7V

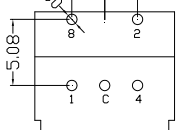
MODEL	SPECIFICATION	Page
R9 series Right Angle Type	Rotary Coded SWITCH RoHS&REACH Compliant / Halogen Free	SP-004
		4/5

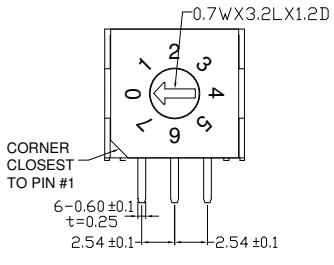


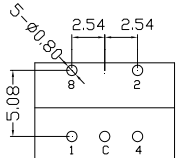




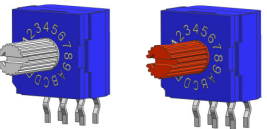
PC board layout as viewed from the top of the switch

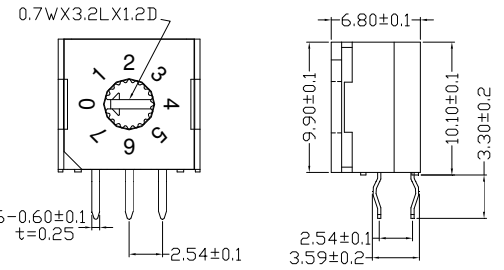


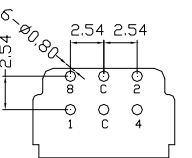




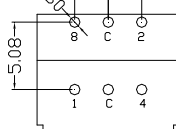
PC board layout as viewed from the top of the switch

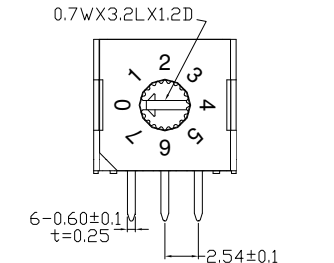


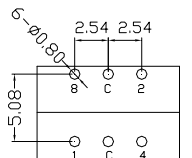




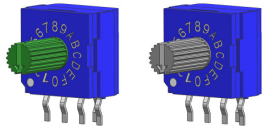
PC board layout as viewed from the top of the switch

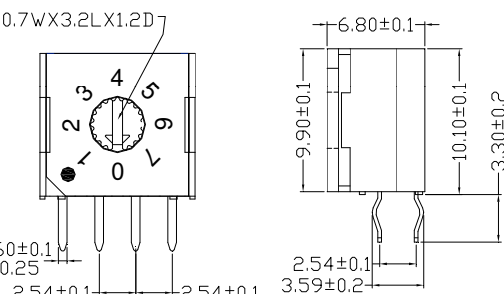


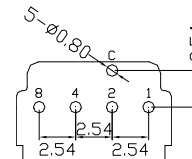




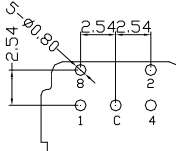
PC board layout as viewed from the top of the switch

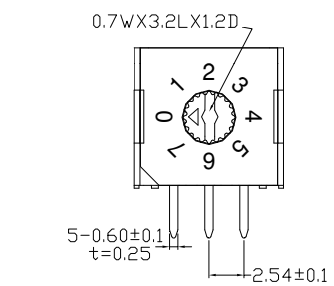


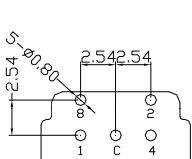




PC board layout as viewed from the top of the switch







PC board layout as viewed from the top of the switch

MODEL	SPECIFICATION Rotary Coded SWITCH RoHS&REACH Compliant / Halogen Free	SP-005	Page
R9 series Right Angle Type			5/5

Soldering Information

◆ Hand Soldering

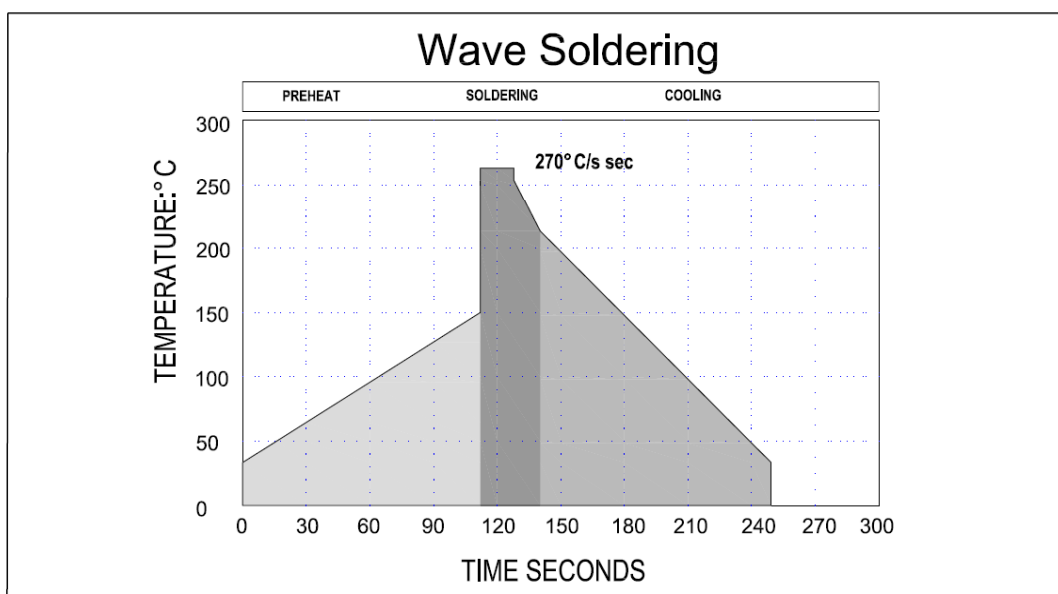
Soldering iron 30W or under at 350°C for 3 sec. max. or at 270°C for 5 sec. max.

◆ Wave Soldering

For lead free wave solder simulation of typical components, the solder bath temperature shall be maintained to 275°C.

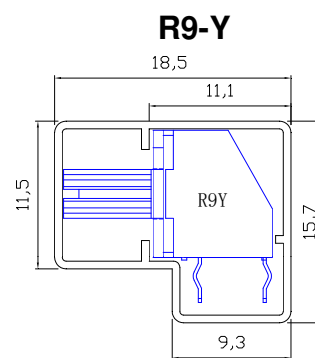
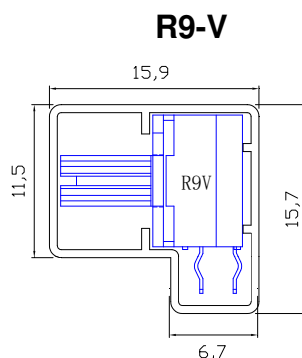
The hold time in the solder shall be 10 +2/-0 seconds.

Classification Wave Soldering Profiles



Tube Package:

Thru Hole	V Type	Y Type
ROTOR	0mm ~ 7mm	0mm ~ 7mm
Per TUBE (pcs)	45	45
BOX (pcs)	2025	2025
CTN 1 (pcs)	4050	4050
CTN 2 (pcs)	8100	8100



Box Dimension:

◆ Tube 57.0cm x 13.0cm x 12.5cm

Carton Dimension:

◆ Tube 2 Boxes.....58.5cm x 29.0cm x 15.0cm
4 Boxes.....58.5cm x 28.0cm x 27.0cm