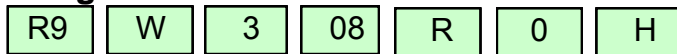


<b>MODEL</b>	<b>SPECIFICATION</b>	SP-001	Page
R9 Seris Thru Hole			1/8
Rotary Coded Switch - <b>RoHS Compliant</b>			

**Ordering Information:**



**Teriminal Type:**

H=Thru Hole  
S=SMD  
V=Right Angle 2.54mm Pitch  
Y=Right Angle 5.08mm Pitch  
T=Thru Hole for Relow Soldering

**Rotor Style:**

0=Flat Arrow  
1=0.5mm(Mius Slot)  
3=3mm(Mius Slot)  
7=7mm(Mius Slot)  
6=Konb+3mm(Mius Slot)

**Code:**

R=Real Code  
C=Complement Code

**Position:**

08=Octal 8 Position  
10=BCD 10 Position  
16=Hexa 16 Position

**Pin Out:**

2=3+2  
3=3+3  
4=4+1

**Special Code:**

None=Standard  
W=White Color  
K=Black Color(Thru-Hole)

**Cap code:**

60:Blue  
62:Green  
63:Grey  
64:Yellow  
65:Dark  
68:Red

**R9=10\*10mm(9.9\*9.9mm)**

Contact area with Gold-plated  
Terminal with Tin-plated

**Specifications**

- ◆ Contact Rating
  - Switching .....5VDC 20mA (Min. AC/DC 20mA 1µA)
  - Non Switching ..... Max. 50VDC 100mA
- ◆ Contact .....100mΩ Max.
- ◆ Insulation Resistan.....1,000MΩ Min. at 100 VDC
- ◆ Dielectric Strength ..... 250VAC for 1 minute
- ◆ Operating Force .....250gf/cm
- ◆ Life .....20,000 Steps
- ◆ Operating Tempera .....-40°C ~ +85°C  
.....-40°C ~ +125°C (Reflow Soldering)
- ◆ Storage Temperatu .....-40°C ~ +85°C
- ◆ Wave Soldering .....270°C 5 Sec. Max
- ◆ Reflow Soldering .....280°C 5 Sec. Max
- ◆ Hand Soldering .....350°C 3 Sec. Max

<b>MODEL</b>	<b>SPECIFICATION</b>	SP-002	Page
<b>R9 Seris</b> <b>Thru Hole</b>			Rotary Coded Switch - <b>RoHS Compliant</b>

**Materials:**

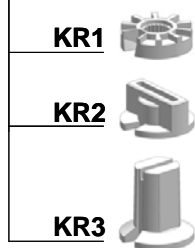
- ◆ Cover & Base
  - R9.....Thermoplastic UL94-HB,(Blue/Black)
  - R9-T.....Thermoplastic UL94-HB,(Black)
  - R9W.....Thermoplastic UL94-HB, (White)
  - R9K.....Thermoplastic UL94-HB, (Black)
- ◆ Rotor
  - R93/R92.....Thermoplastic UL94-HB, (White/Red)
  - R94.....Thermoplastic UL94-HB, (Gray/Green)
- ◆ Knob .....PC
- ◆ "O" Ring .....Silicone Rubber
- ◆ Step .....Stainless Steel
- ◆ Spacer .....Stainless Steel
- ◆ Movable Contact .....Cooper alloy with Gold Plated over nickel plate
- ◆ Terminal Contact .....Copper alloy with Gold Plated over nickel plate
- ◆ Terminal .....Cooper alloy with (Pure) Tin-Plated over nickel plate

**Code Format:**

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

**Knob Order Information**

**KR1**



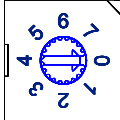
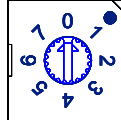
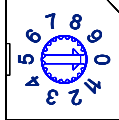
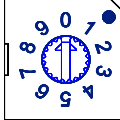
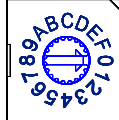
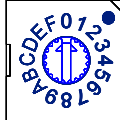
**08**

**Knob Color**

- 00 : Blue
- 02 : Green
- 03 : Light Grey
- 04 : Yellow
- 05 : Dark Grey
- 08 : Red

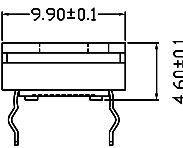
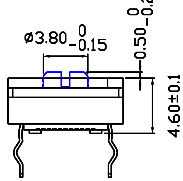
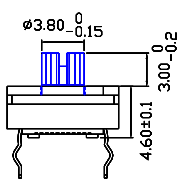
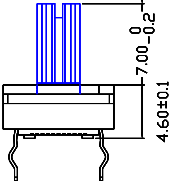
<b>MODEL</b>	<b>SPECIFICATION</b>	Rotary Coded Switch-RoHs Compliant	SP-003	Page
<b>R9 Series Thru Hole</b>				3/8

### Position

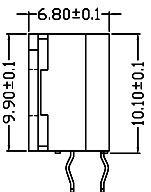
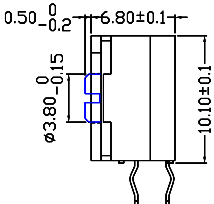
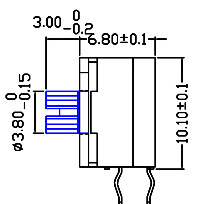
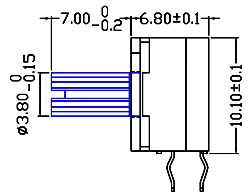
8 Position		10 Position		16 Position	
R93	R94	R93	R94	R93	R94
					

### Rotor

#### ◆H Type

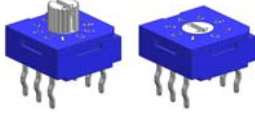


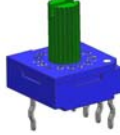
Flat Type	0.5mm	3mm	7mm
			

#### ◆V Type

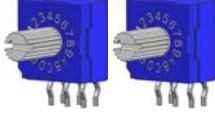

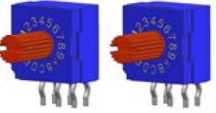

Flat Type	0.5mm	3mm	7mm
			

### Rotor Color

#### ◆H Type

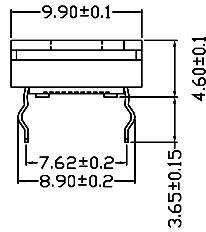
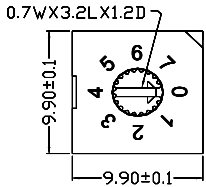
Real Code		Complement Code	
R93/92 (White)	R94 (Gray)	R93/R92 (Red)	R94 (Green)
			

#### ◆V Type

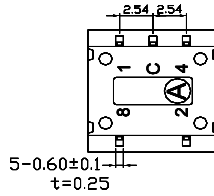
Real Code		Complement Code	
R93/92 (White)	R94 (Gray)	R93/R92 (Red)	R94 (Green)
			

<b>MODEL</b> <b>R9 Series</b> <b>Thru Hole</b>	<b>SPECIFICATION</b> Rotary Coded Switch-RoHs Compliant	SP-004	Page
			4/8

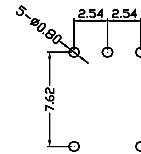
### R92-H



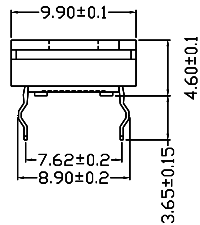
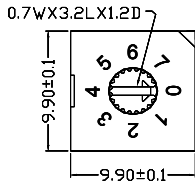
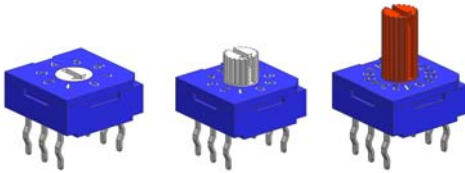
TERMINATION IDENTIFICATION  
VIEWED FROM BOTTOM OF SWITCH



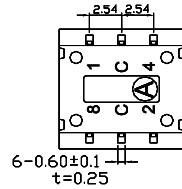
PC LAYOUT (TOP VIEW)



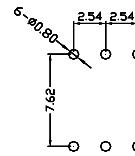
### R93-H



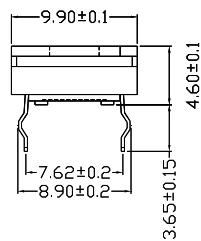
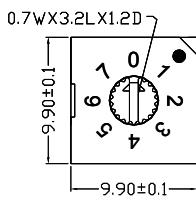
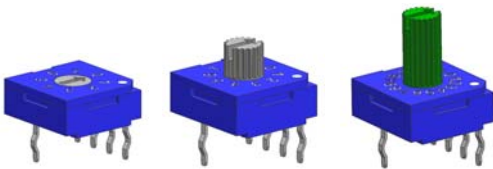
TERMINATION IDENTIFICATION  
VIEWED FROM BOTTOM OF SWITCH



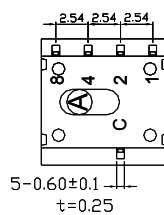
PC LAYOUT (TOP VIEW)



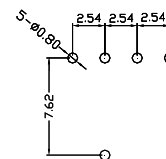
### R94-H



TERMINATION IDENTIFICATION  
VIEWED FROM BOTTOM OF SWITCH

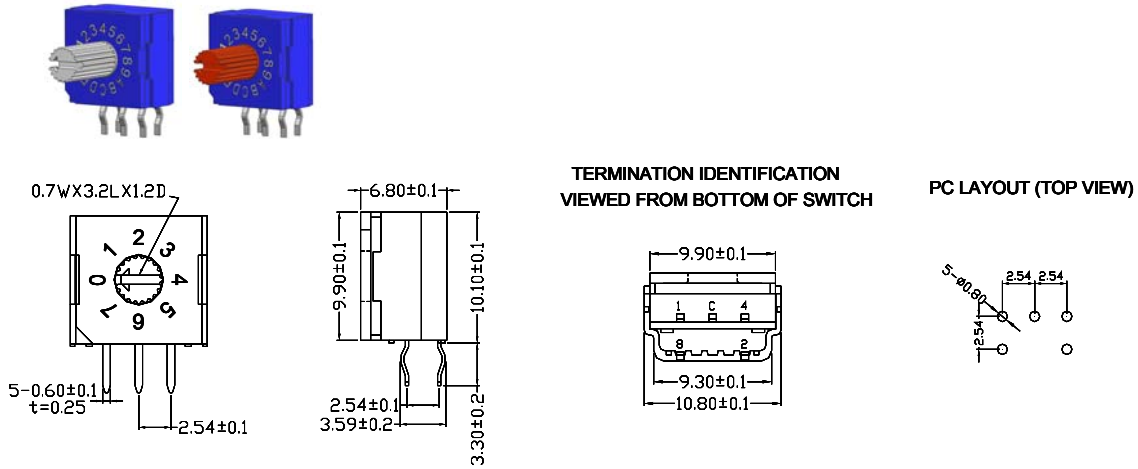


PC LAYOUT (TOP VIEW)

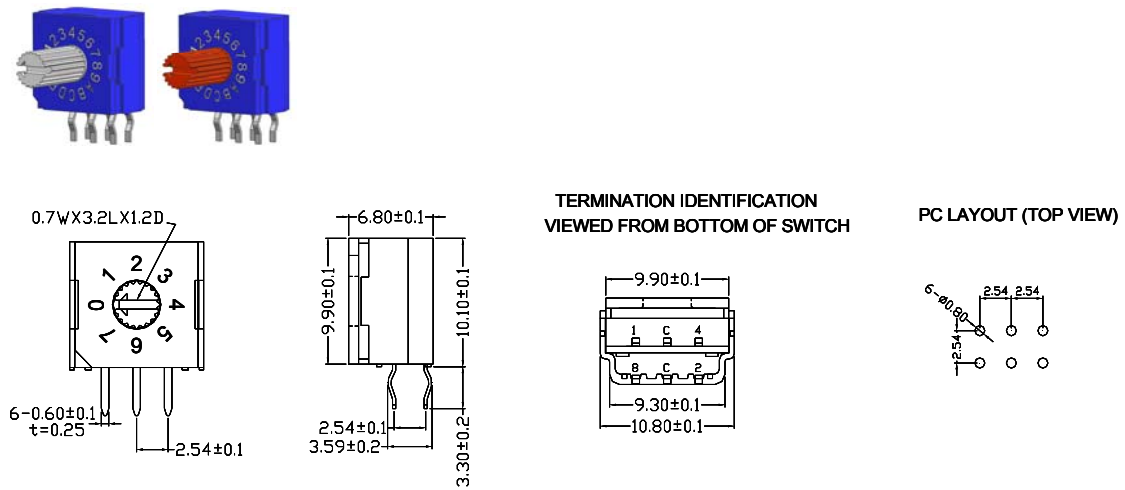


<b>MODEL</b> <b>R9 Series</b> <b>Thru Hole</b>	<b>SPECIFICATION</b> Rotary Coded Switch-RoHs Compliant	SP-005	Page
			5/8

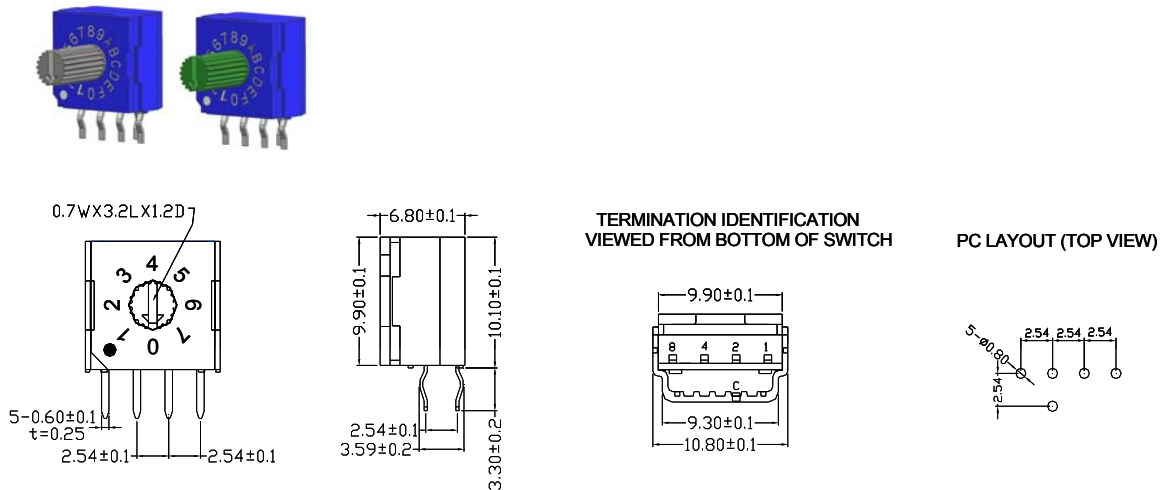
### R92-V



### R93-V



### R94-V



MODEL

R9 Series  
Thru Hole

# SPECIFICATION

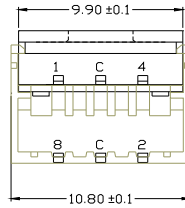
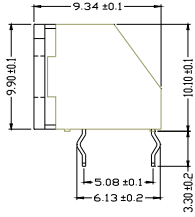
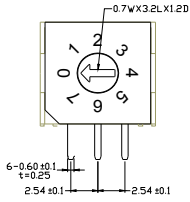
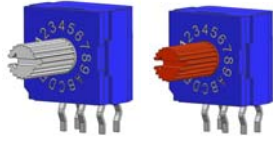
Rotary Coded Switch-RoHs Compliant

SP-006

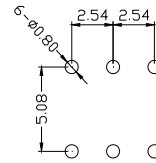
Page

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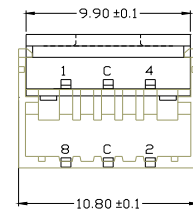
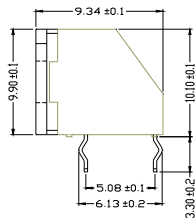
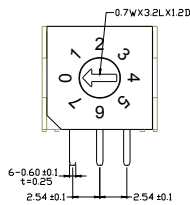
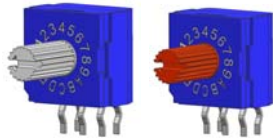
## R92-Y



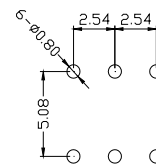
DRILLING PLAN



## R93-Y



DRILLING PLAN



MODEL	<b>SPECIFICATION</b>	SP-007	Page
R9 Series Thru Hole			Rotary Coded Switch-RoHs Compliant

### Soldering Information

◆ **Hand Soldering**

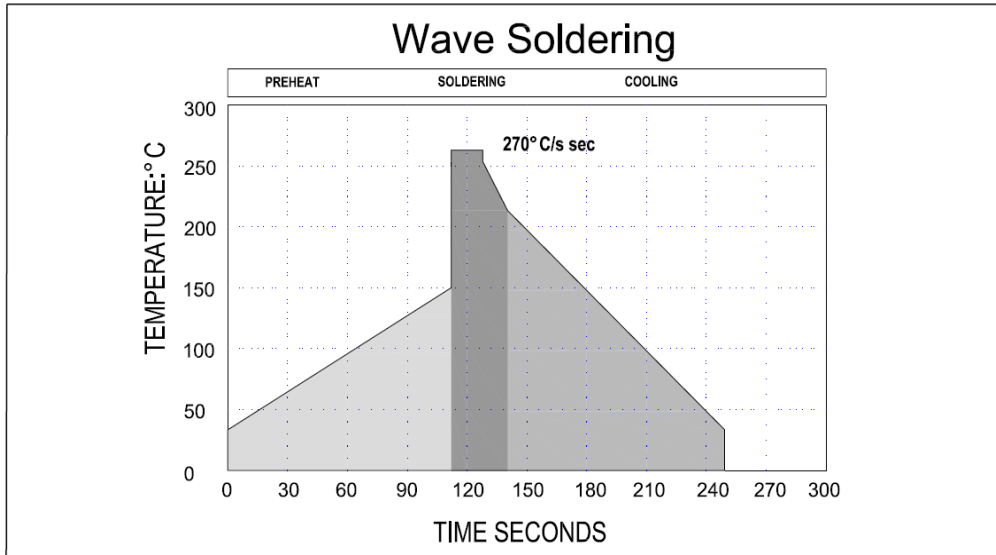
Soldering iron 30W or under at 350°C for 3 sec max or at 270°C for 5 sec max.

◆ **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



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

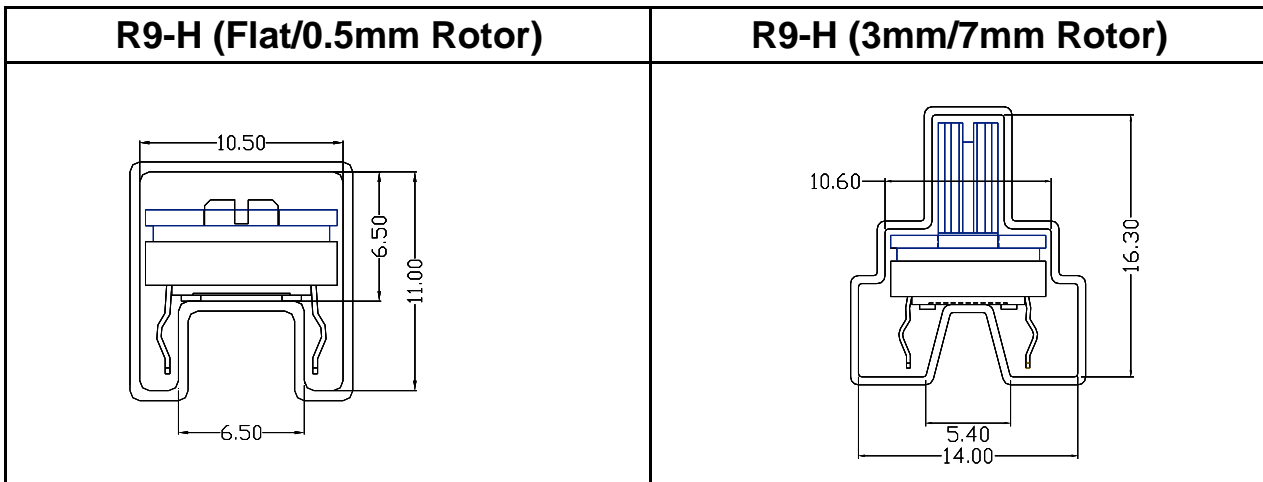
<b>MODEL</b>	<b>SPECIFICATION</b>	SP-008	Page
<b>R9 Series</b> <b>Thru Hole</b>			Rotary Coded Switch- <b>RoHs Compliant</b>

**Part Number Table:**

Pin Out	No. Pos.	Real Code			Complementary Code		
		H Type Flat Rotor Tube Package	H Type 0.5mm Rotor Tube Package	V/Y Type 7mm Rotor Tube Package	H Type Flat Rotor Tube Package	V/Y Type 3mm Rotor Tube Package	H Type 7mm Rotor Tube Package
3+2	08	R9208R0H	R9208R1H	R9208R7V/Y	R9208C0H	R9208C3V/Y	R9208C7H
	10	R9210R0H	R9210R1H	R9210R7V/Y	R9210C0H	R9210C3V/Y	R9210C7H
	16	R9216R0H	R9216R1H	R9216R7V/Y	R9216C0H	R9216C3V/Y	R9216C7H
3+3	08	R9308R0H	R9308R1H	R9308R7V/Y	R9308C0H	R9308C3V/Y	R9308C7H
	10	R9310R0H	R9310R1H	R9310R7V/Y	R9310C0H	R9310C3V/Y	R9310C7H
	16	R9316R0H	R9316R1H	R9316R7V/Y	R9316C0H	R9316C3V/Y	R9316C7H
4+1	08	R9408R0H	R9408R1H	R9408R7V/Y	R9408C0H	R9408C3V/Y	R9408C7H
	10	R9410R0H	R9410R1H	R9410R7V/Y	R9410C0H	R9410C3V/Y	R9410C7H
	16	R9416R0H	R9416R1H	R9416R7V/Y	R9416C0H	R9416C3V/Y	R9416C7H

**Tube Package:**

Thru Hole ROTOR	H Type Flat / 0.5mm	H Type 3mm / 7mm
Per TUBE (pcs)	50	50
BOX (pcs)	4000	2500
CTN 1 (pcs)	8000	5000
CTN 2 (pcs)	16000	10000



**Carton:**

- ◆ Tube      CTN1 / 2 Boxes.....58.5cm x 26.5cm x 16cm
- CTN2 / 4 Boxes.....58.5cm x 26.5cm x 24cm