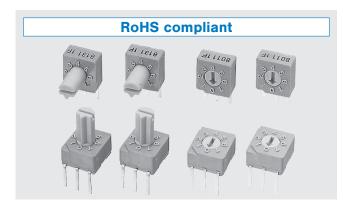
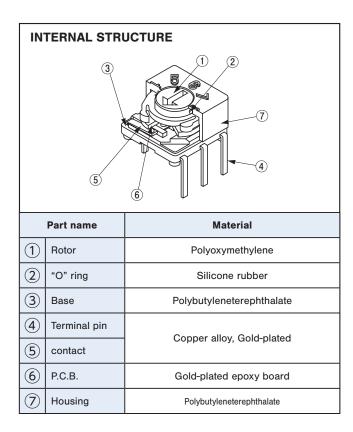
S-8000

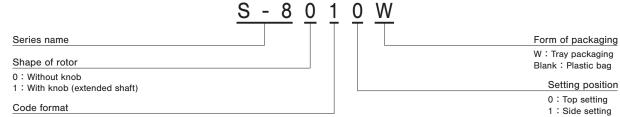


FEATURES

- RoHS compliant
- 3 bits 8 positions type
- Protection against dust and washable after soldering
- DIP-pin configuration: 2.54 mm pitch
- Resin material is UL Recognized 94HB



PART NUMBER DESIGNATION



1 : Real code

3 : Complementary code

LIST OF PART NUMBERS

Shape			Binary co	Packaging quantity	
		Form of packaging	Real code Complementary co		
	Without knob	Tray packaging	S-8010W	S-8030W	50 pcs./tray
Top setting	Without Khob	Plastic bag	S-8010	S-8030	100 pcs./pack
	With knob	Tray packaging	S-8110W	S-8130W	50 pcs./tray
		Plastic bag	S-8110	S-8130	100 pcs./pack
	Without knob	Tray packaging	S-8011W	S-8031W	50 pcs./tray
Side setting		Plastic bag	S-8011	S-8031	100 pcs./pack
	With knob	Tray packaging	S-8111W	S-8131W	50 pcs./tray
		Plastic bag	S-8111	S-8131	100 pcs./pack

Werify the above part numbers when placing orders. Tray version can be supplied only in tray units.

ROTARY CODED SWITCHES

STANDARD SPECIFICATIONS

Circuit type	BCO (Real code, complementary code)			
Operating temp. range	−25 ~ 70 °C			
Storage temp. range	-23 · 10 · C			
Sealing	Washable by "O" ring Release refer to page 150,151			
Net weight	Approx. 0.27 g (S-8010, S-8030) Approx. 0.34 g (S-8110, S-8130) Approx. 0.33 g (S-8011, S-8031) Approx. 0.40 g (S-8111, S-8131)			

ELECTRICAL CHARACTERISTICS

Contact rating Non-switching Switching Minimum	DC50 V 100 mA DC5 V 100 mA DC20 mV 1 µA		
Contact resistance	100 mΩ maximum		
Insulation resistance	1000 MΩ (DC100 V) minimum		
Dielectric strength	AC250 V, 60 s		

■ MECHANICAL CHARACTERISTICS

No. of positions	8		
Adjustment torque	36 mN·m {367 gf·cm} maximum		
Stepping angle	45°		
Terminal strength	10 N {1.02 kgf} minimum		
Solderability	245 ± 3 °C, 2 ~ 3 s		
Soldering heat	Flow : 260 \pm 3 $^{\circ}\text{C}$ as the temperature in a pot of molten solder, immersion from head of terminal to backside of board, 5 $^{\sim}$ 6 s, two times maximum		
	Manual soldering: 380 ± 10 °C, 3 ~ 4 s		

{ }: Reference only

■ ENVIRONMENTAL CHARACTERISTICS

Vibration	(Amplitude) 1.5 mm or (Acceleration) 98 m/s², 10-500-10 Hz, 3 directions for 2 h each		
Shock	490 m/s², 11 ms 6 directions for 3 times each		
Load life	10000 steps minimum DC5 V, 100 mA		
Humidity (Steady state)	40 °C, Relative humidity 90 ~ 95 %, 240 h		
High temp. exposure	70 °C, 96 h		
Low temp. exposure	−25 °C, 96 h		
Thermal shock	-25 (0.5 h) ~ 70 °C (0.5 h), 5 cycles		

CODE FORMAT

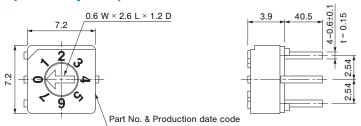
No. of positions			8 positions							
Po	Positions			1	2	3	4	5	6	7
	Real code	4					•	•	•	•
		2			•	•			•	•
0		1		•		•		•		•
Code	Complemen- tary code	- 4	•	•	•	•				
		2	•	•			•	•		
		1	•		•		•		•	

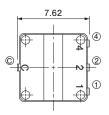
ROTARY CODED SWITCHES

OUTLINE DIMENSIONS

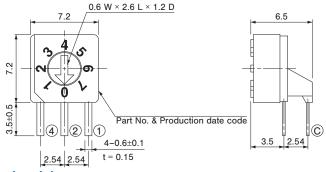
Unless otherwise specified, tolerance: ± 0.3 (Unit: mm)

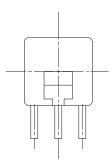
- S-8010 (Real code)
- S-8030 (Complementary code)



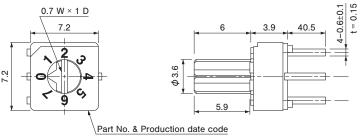


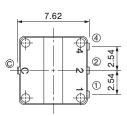
- S-8011 (Real code)
- S-8031 (Complementary code)



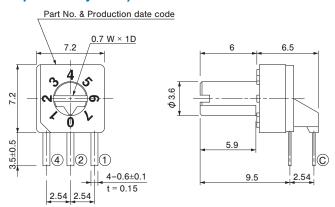


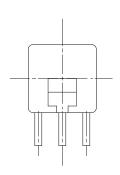
- S-8110 (Real code)
- S-8130 (Complementary code)





- S-8111 (Real code)
- S-8131 (Complementary code)





■ TERMINAL CONNECTION / P.C.B. THROUGH HOLE DIMENSIONS

(Unit: mm)

	Top setting	Side setting		
Terminal pin layout (Bottom view)	Real code Complementary code $\frac{4 \ 2 \ 1}{\overline{c}}$ $\frac{\overline{4} \ \overline{2} \ \overline{1}}{\overline{c}}$	Operating face of complementary code v 4 2 1 C Operating face of complementary code		
P.C.B. dimensions (Bottom view)	2.54±0.1 4-\$\phi\$0.8 hole 0+0.8 hole S-8000 case	2.54±0.1 VOperating face 4-φ0.8 hole S-8000 case		

PACKAGING SPECIFICATIONS

<Tray packaging specifications>

- Tray version is packaged in 50 pcs. per tray. Orders will be accepted for units of 50 pcs., i. e., 50, 100, 150 pcs. etc.
- Tray version is boxed with 10 trays.

<Bulk pack specifications>

- The smallest unit of bulk pack in a plastic bag is 10 pcs. per pack. Orders will be accepted for unit of minimum 10 pcs., i.e., 10, 20, 30 pcs., etc.
- Boxing of bulk in a plastic bag is performed with 50 pcs. (standard 100 pcs.) per box.