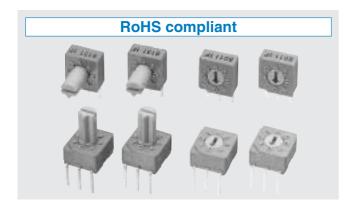
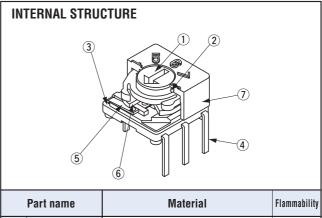
ROTARY CODED SWITCHES

5-8000



FEATURES

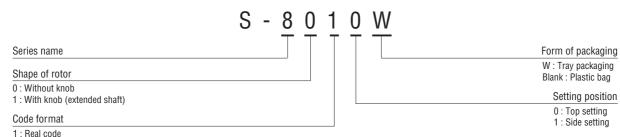
- Lead-free soldering
- 3 bits 8 positions type
- Protection against dust and washable after soldering
- DIP-pin configuration: 2.54 mm pitch



Part name	Material	Flammability
1 Rotor	Polyoxymethylene	
② "0" ring	Silicone rubber	UL-94HB
3 Base	Polybutyleneterephthalate	
4 Terminal pin	Common allow Cold plated	
5 Contact	Copper alloy, Gold-plated	_
6 P.C.B.	Gold-plated epoxy board	
7 Housing	Polybutyleneterephthalate	UL-94HB

CFCs, Halon, Carbon tetrachloride and designated bromic flame retardant PBBOs and PBBs are not used in our products.

■ PART NUMBER DESIGNATION



■ LIST OF PART NUMBERS

3 : Complementary code

			Binary	Pieces in package	
Shape		Form of packaging	Real code		
	Without leash	Tray packaging	S-8010W	S-8030W	50 pcs./tray
Ton collina	Without knob	Plastic bag	S-8010	S-8030	50 pcs./pack
Top setting		Tray packaging	S-8110W	S-8130W	50 pcs./tray
With knob	Plastic bag	S-8110	S-8130	50 pcs./pack	
	Milhauthauh	Tray packaging	S-8011W	S-8031W	50 pcs./tray
Without knob	Plastic bag	S-8011	S-8031	50 pcs./pack	
Side setting	With knob	Tray packaging	S-8111W	S-8131W	50 pcs./tray
With knob	Plastic bag	S-8111	S-8131	50 pcs./pack	

^{*} Verify the above part numbers when placing orders. Tray version can be supplied only in tray units.

S-8000 ROTARY CODED SWITCHES

■ STANDARD SPECIFICATIONS

Circuit type	BCO (Real code, complementary code)			
Operating temperature range	−25 ~ 70 °C			
Storage temperature range				
Sealing	Washable by "O" ring			
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 ± 3 °C as the temperature in a pot of molten solder, immersion from head of terminal to backside of board, $5\sim6$ s, two times maximum			
	Manual soldering : 380 \pm 10 °C, 3 \sim 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 temperature exposure	70 °C, 96 h
Low temperature exposure	−25 °C, 96 h
Thermal shock	-25 (0.5 h) ~ 70 °C (0.5 h), 5 cycles

■ CODE FORMAT

No.	No. of positions		0	1	2	3	4	5	6	7
	4					•	•	•	•	
	Real code	2			•	•			•	•
Code		1		•		•		•		•
Code	Complemen- tary code	4	•	•	•	•				
		2	•	•			•	•		
	, 0000	ī	•		•		•		•	

... Contact closed

S-8000 ROTARY CODED SWITCHES

OUTLINE DIMENSIONS

Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)

t = 0.15

2.54

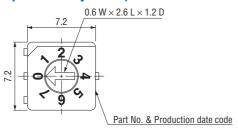
2.54

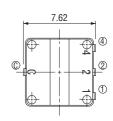
 $4 - 0.6\pm 0$.

3.9

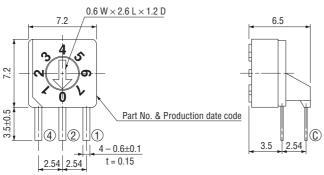
4±0.5

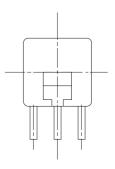
- S-8010 (Real code)
- S-8030 (Complementary code)



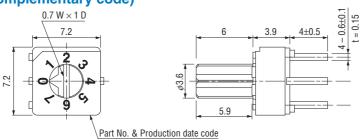


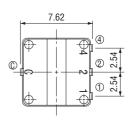
- S-8011 (Real code)
- S-8031 (Complementary code)



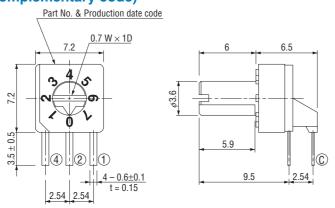


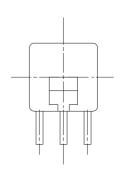
- S-8110 (Real code)
- S-8130 (Complementary code)





- 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 $\frac{4 \ 2 \ 1}{\overline{c}} \qquad \qquad \overline{\overline{c}}$	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 – Ø 0.8 hole S – 8000 case	2.54 \pm 0.1		

■ 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.