imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



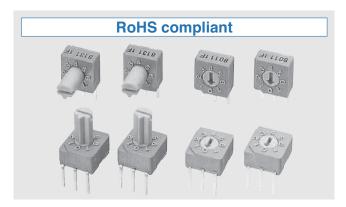
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



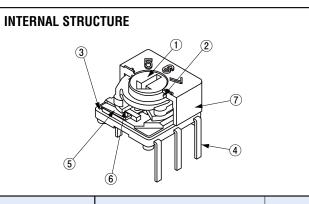
ROTARY CODED SWITCHES





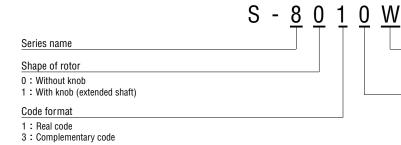
FEATURES

- RoHS compliant
- 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	UL94HB	
3	Base	Polybutyleneterephthalate		
4	Terminal pin	Copper allow Cold plated	-	
(5)	Contact	Copper alloy, Gold-plated		
6	P.C.B.	Gold-plated epoxy board		
\bigcirc	Housing	Polybutyleneterephthalate	UL94HB	

PART NUMBER DESIGNATION



Form of packaging
W: Tray packaging Blank: Plastic bag
Setting position
0 : Top setting 1 : Side setting

LIST OF PART NUMBERS

			Binary co		
SI	iape	Form of packaging	Real code	Complementary code	Pieces in package
	Without knob	Tray packaging	S-8010W	S-8030W	50 pcs./tray
Ton ootting		Plastic bag	S-8010	S-8030	100 pcs./pack
Top setting	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
Cido cotting		Plastic bag	S-8011	S-8031	100 pcs./pack
Side setting	With knob	Tray packaging	S-8111W	S-8131W	50 pcs./tray
		Plastic bag	S-8111	S-8131	100 pcs./pack

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

STANDARD SPECIFICATIONS

Circuit type	BCO (Real code, complementary code)				
Operating temperature range	-25 ~ 70 °C				
Storage temperature range	-23~70 6				
Sealing	Washable by "O" ring ※Please 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 ENVIRONMENTAL 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 ~ 6 s, two times maximum			
	Manual soldering : 380 \pm 10 °C, 3 ~ 4 s			

{ }: Reference only

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.	of positions		0	1	2	3	4	5	6	7
	Real code	4					•	•	•	•
		2			•	•			•	•
		1		•		•		•		•
Code C	Complemen- tary code	4		•	•	•				
		2	•	•			•	•		
		1			•		•			

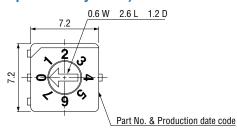
S-8000 ROTARY CODED SWITCHES

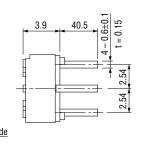
OUTLINE DIMENSIONS

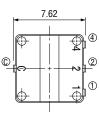
Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)

• S-8010 (Real code)

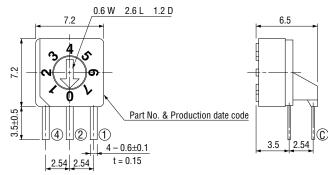
• S-8030 (Complementary code)

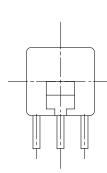




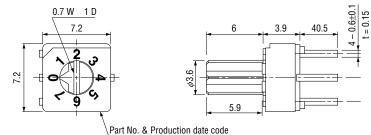


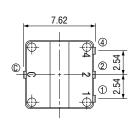
S-8011 (Real code) S-8031 (Complementary code)



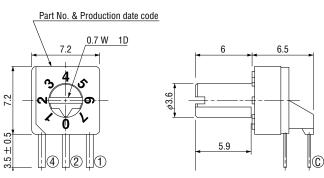


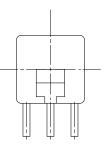
S-8110 (Real code) S-8130 (Complementary code)



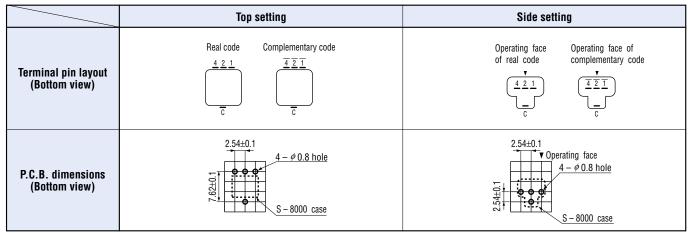


S-8111 (Real code) S-8131 (Complementary code)





TERMINAL CONNECTION / P.C.B. THROUGH HOLE DIMENSIONS (Unit: mm)



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.