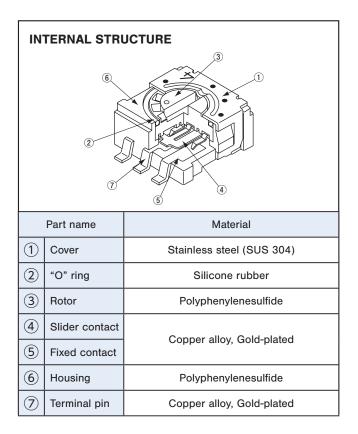
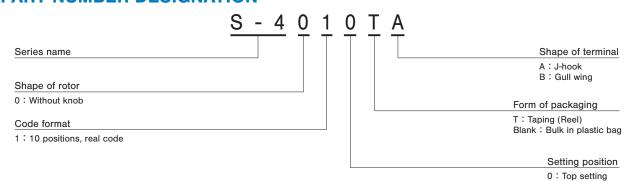


### **FEATURES**

- RoHS compliant
- Small size of □4.8 mm makes it perfect for high density board mounting applications
- Compatible with most automatic pick & place machinery
- Gold plated contact provides excellent reliability
- Low profile design of 2.6 mm
- Resin material is UL Recognized 94V-0



### **PART NUMBER DESIGNATION**



### **LIST OF PART NUMBERS**

Setting position	Shape of terminal	Form of packaging	BCD real code	Packaging quantity		
Top setting	A ( I book)	Plastic bag	S-4010A	50 pcs./pack		
	A (J-hook)	Taping	S-4010TA	500 pcs./reel		
	B (Cull wing)	Plastic bag	S-4010B	50 pcs./pack		
	B (Gull wing)	Taping	S-4010TB	500 pcs./reel		

Werify the above part numbers when placing orders. Taping version can be supplied only in reel unit.

### **STANDARD SPECIFICATIONS**

Circuit type	BCD (Real code)
Operating temp. range	−25 ~ 70 °C
Storage temp. range	_
Sealing	Non washable
Net weight	Approx. 0.12 g

## **ELECTRICAL CHARACTERISTICS**

Contact rating Non-switching Switching	DC50 V 100 mA DC2.4 V 100 mA, DC24V, 10 mA					
Contact resistance	100 mΩ maximum					
Insulation resistance	100 MΩ (DC100 V) minimum					
Dielectric strength	AC250 V, 60 s					

### **MECHANICAL CHARACTERISTICS**

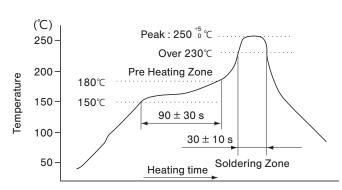
No. of positions	10					
Adjustment torque	10 mN⋅m {102 gf⋅cm} maximum					
Stepping angle	36° (10 positions)					
Solderability	245 $\pm$ 3 °C, 2 $\sim$ 3 s					
Soldering heat	Reflow: 255 °C (Peak temperature) Please refer to the profile below)					
Coldoning float	Manual soldering : 350 $\pm$ 10 °C, 3 $\sim$ 4 s					
Shear (adhesion)	5 N {0.51 kgf} 10 s					
Substrate bending	Width 90 mm, bend 3 mm, 5 s, 1 time					
Pull-off strength	5 N {0.51 kgf} 10 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 DC2.4 V 100 mA					
Humidity	40 °C, Relative humidity 90 $\sim$ 95 %, 240 h					
High temp. exposure	70 °C, 96 h					
Low temp. exposure	−25 °C, 96 h					
Thermal shock	–25 (0.5 h) $\sim$ 70 °C ( 0.5 h ), 5 cycles					

### ⟨Reflow profile for soldering heat evaluation⟩



Reflow: two times maximum

### **CODE FORMAT**

No. of positions		10 positions										
Positions		0	1	2	3	4	5	6	7	8	9	
Code	Real code	8									•	•
		4					•	•	•	•		
		2			•	•			•			
		1		•		•		•		•		•

---Contact closed

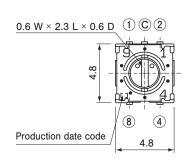
# **S-4000**

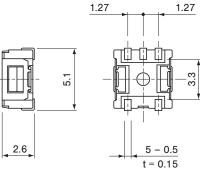
# **ROTARY CODED SWITCHES (SMD)**

### **OUTLINE DIMESIONS**

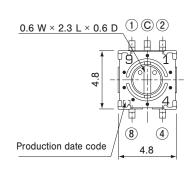
● S-4010A

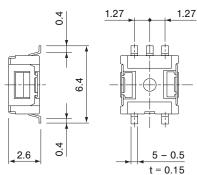
Unless otherwise specified, tolerance:  $\pm$  0.3 (Unit: mm)





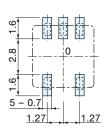
● S-4010B



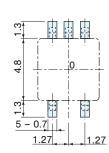


### ■ RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

A type



B type



Note) The zero point is the center of mounting.

(Unit: mm)

# **ROTARY CODED SWITCHES (SMD)**

### PACKAGING SPECIFICATIONS

### <a>Taping packaging specifications></a>

- Taping version is packaged in 500 pcs. per reel.
  Orders will be accepted for units of 500 pcs., i.e., 500, 1000, 1500, pcs., etc.
- Taping version is boxed with one reel (500 pcs.).

Maximum number of consecutive missing pieces=2.

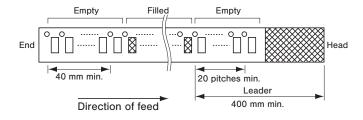
Leader length and reel dimension are shown in the diagrams below:

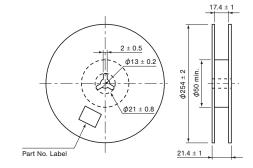
### Embossed tape dimensions

#### Reel dimensions

(Unit: mm)

(Conforms to JIS C 0806-3) (In accordance with EIAJ ET-7200A)

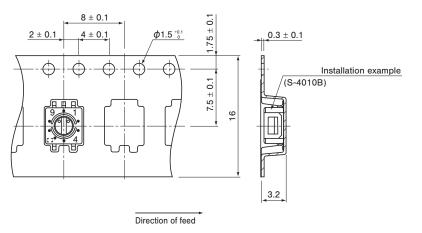




### ● S-4010TA/TB

(Conforms to JIS C 0806-3)

(Unit: mm)



### <Bulk pack specifications>

- The smallest unit of bulk pack in 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 200 pcs.) per box.