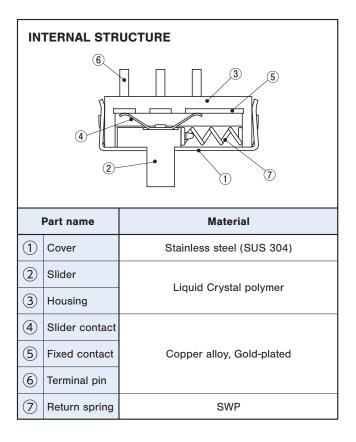




FEATURES

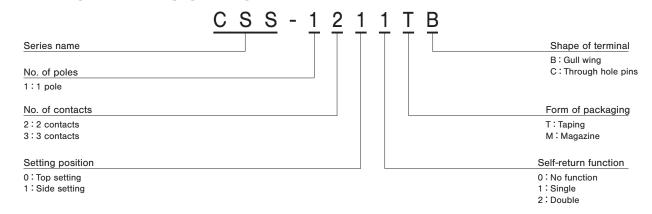
- Low-profile of 2 mm
- Self-return type available
- RoHS compliant
- Resin material is UL Recognized 94V-0



APPLICATIONS

■ Mobile stereo · LCD TV · Camcorder

■ PART NUMBER DESIGNATION



■ LIST OF PART NUMBERS

No. of contacts	Setting position	Self-return function	Shape of terminal	Form of packaging	Part number	Packaging quantity
2 Sid		No function	B(Gull wing)	Taping	CSS-1210TB	1,900 pcs./reel
	Side setting		C (Through hole pins)	Magazine	CSS-1210MC	53 pcs./stick
		Single	B(Gull wing)	Taping	CSS-1211TB	1,900 pcs./reel
			C (Through hole pins)	Magazine	CSS-1211MC	53 pcs./stick
	Side setting	No function	B(Gull wing)	Taping	CSS-1310TB	1,900 pcs./reel
			C (Through hole pins)	Magazine	CSS-1310MC	38 pcs./stick
3		Single	B(Gull wing)	Taping	CSS-1311TB	1,900 pcs./reel
			C (Through hole pins)	Magazine	CSS-1311MC	38 pcs./stick
		Double	B(Gull wing)	Taping	CSS-1312TB	1,900 pcs./reel
			C (Through hole pins)	Magazine	CSS-1312MC	38 pcs./stick
	T	No function	C (Through hole pins)	Magazine	CSS-1300MC	38 pcs./stick
	Top setting	Double	C (Through hole pins)	Magazine	CSS-1302MC	38 pcs./stick

STANDARD SPECIFICATIONS

Operating temp. range	– 20 ~ 70 °C		
Storage temp. range	− 40 ~ 85 °C		
Sealing	Non- Washable		
Net weight	Approx. 0.11 g (CSS-12), Approx. 0.15 g (CSS-13)		

MECHANICAL CHARACTERISTICS

No. of positions	2, 3		
Stroke	2 mm		
Operating force	1 ~ 3.5 N {0.1 ~ 0.36 kgf}		
Stop strength	10 N {1.02 kgf} 15 s		
Solderability	245 ± 3 °C 2 ~ 3 s Sn-3Ag-0.5Cu		
Soldering heat	Reflow: 250 ~ 255 °C (Peak temperature) (Please refer to the profile below)		
Soldering fleat	Manual soldering : 350 \pm 10 °C, 3 ~ 4 s		
Shear (Adhesion)	5 N {0.5 kgf} 10 s		
Substrate bending	Width 90 mm, bend 3 mm, 5 s, 1 time		
Pull-off strength	5 N {0.5 kgf} 10 s		

{ }: Reference only

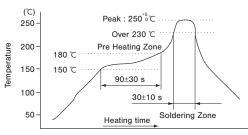
ELECTRICAL CHARACTERISTICS

Contact rating	Non-switching : DC50 V , 100 mA Switching : DC12 V , 100 mA Minimum : DC20 mV , 1 µA		
Contact timing	Non-shorting		
Contact resistance	70 mΩ maximum		
Insulation resistance	100 MΩ minimum (DC500 V)		
Dielectric strength	AC500 V , 60 s		

ENVIRONMENTAL CHARACTERISTICS

Vibration	1.5 mm 、98 m/s², 10-500-10 Hz Amplitude 1.5 mm or Acceleration 98 m/s², 10-500-10 Hz, 3 directions for 10 cycles each		
Shock	490 m/s², 11 ms, 6 directions for 3 times each		
Load life	Continuous load 10000 cycles, DC12 ± 0.5 V, 100 ± 10 mA		
Humidity	40 °C, 90 \sim 95 %, 240 h 40 °C, Relative humidity 90 $^{\sim}$ 95 %, 240 h, No load		
High temp. exposure	85 °C, 96 h, No load		
Low temp. exposure	−40 °C, 96 h, No load		
Thermal shock	-40 (0.5 h) ~ 85 °C (0.5 h), 5 cycles		

⟨Reflow profile for soldering heat evaluation⟩

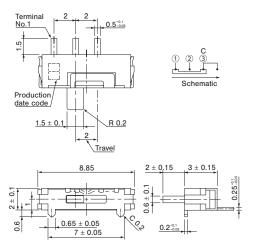


Reflow : two times maximum

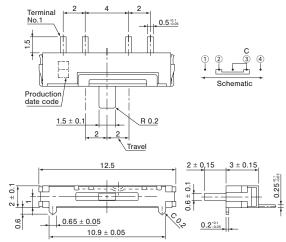
COMPACT SLIDE SWITCHES

OUTLINE DIMENSIONS

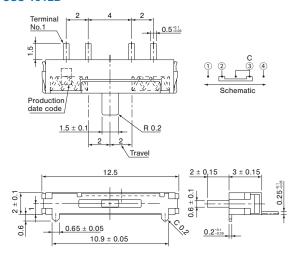
● CSS-1210B



● CSS-1310B

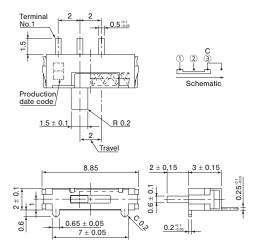


OCSS-1312B

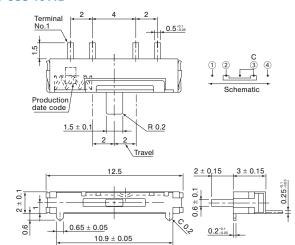


Unless otherwise specified, tolerance : ± 0.2 (Unit : mm)

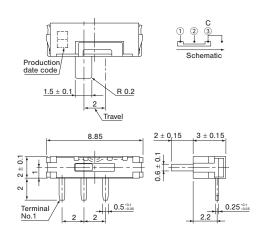
CSS-1211B



● CSS-1311B



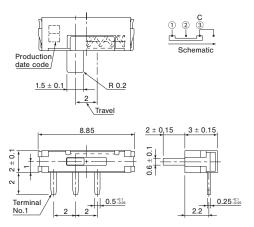
● CSS-1210C



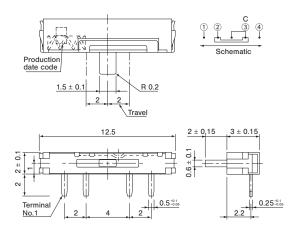
COMPACT SLIDE SWITCHES

OUTLINE DIMENSIONS

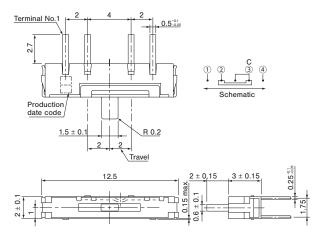
CSS-1211C



CSS-1311C

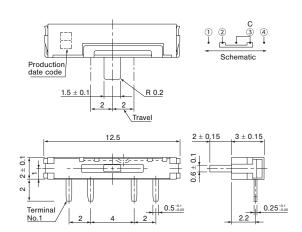


● CSS-1300C

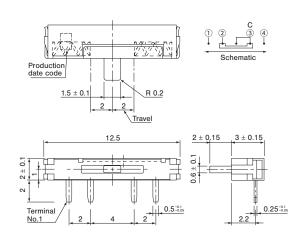


Unless otherwise specified, tolerance : \pm 0.2 (Unit : mm)

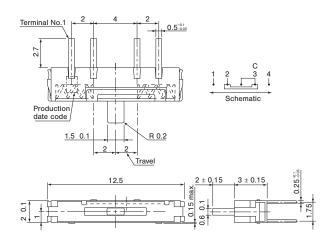
CSS-1310C



CSS-1312C



● CSS-1302C



COMPACT SLIDE SWITCHES

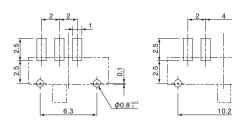
■ RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

● CSS-121□B



(Unit: mm)

φ0.8^{+0.05}



PACKAGING SPECIFICATIONS

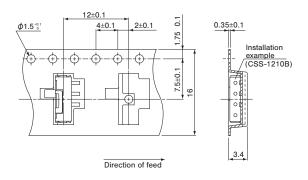
Taping version is packaged in 1900 pcs. par reel.

Taping version is boxed with 1 reel (1900 pcs.).

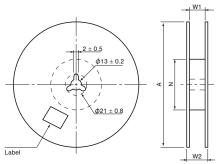
Maximum number of consecutive missing pieces = 2.

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

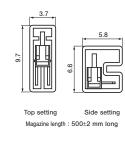
● CSS-121□TB



Reel dimensions



(Unit: mm)

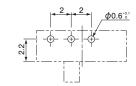


Reel shape and dimensions

Part number	А	W ₁	W ₂	N
121□TB	Ø 330 ± 2	17.4 ± 1	21.4 ± 1	Ø 80 ± 1
131□TB	Ø 330 ± 2	25.4 ± 1	29.4 ± 1	Ø 80 ± 1

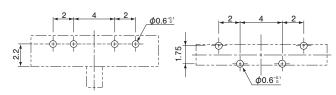
SIZE OF P.C.B. PROCESSING

● CSS-121□C

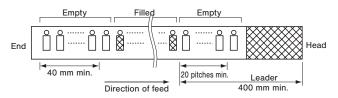


● CSS-131□C

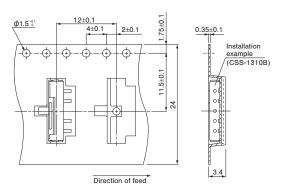
● CSS-130□C



Embossed tape dimensions



● CSS-131□TB



Packing	quantity	of	magazin

Part number	Quantity / Stick
12□□	53
13□□	38