

Return spring

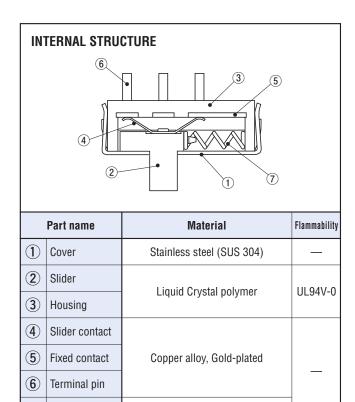


FEATURES

- Low-profile of 2 mm
- Self-return type available
- RoHS compliant

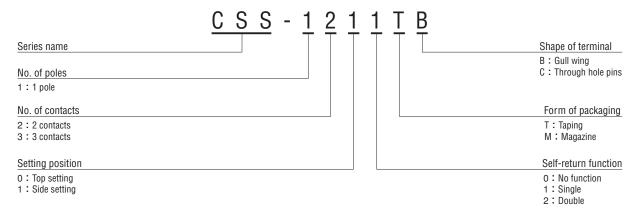


■ Mobile stereo · LCD TV · Camcorder



SWP

PART NUMBER DESIGNATION



LIST OF PART NUMBERS

No. of contacts	Setting position	Self-return function	Shape of terminal	Form of packaging	Part number	Pieces in package
2	Side setting	No function	B (Gull wing)	Taping	CSS-1210TB	1,900 pcs./reel
			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
3	Side setting	No function	B (Gull wing)	Taping	CSS-1310TB	1,900 pcs./reel
			C (Through hole pins)	Magazine	CSS-1310MC	38 pcs./stick
		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	
Coldoring boot	Reflow: 250 ~ 255 °C (Peak temperature) (Please refer to the profile below)	
Soldering heat	Manual soldering : 350 \pm 10 °C, 3 \sim 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

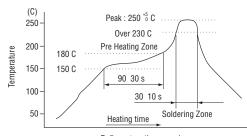
■ ELECTRICAL CHARACTERISTICS

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 (DC 500 V)	
Dielectric strength	AC500 V 60 s	

ENVIRONMENTAL CHARACTERISTICS

Vibration	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, Relative humidity 90 ~ 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⟩

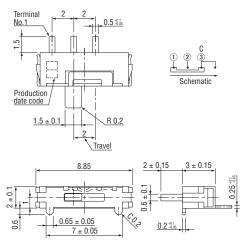


Reflow: two times maximum

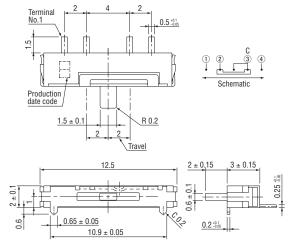
COMPACT SLIDE SWITCHES

OUTLINE DIMENSIONS

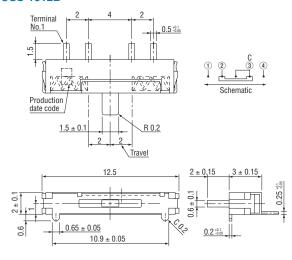
• CSS-1210B



• CSS-1310B

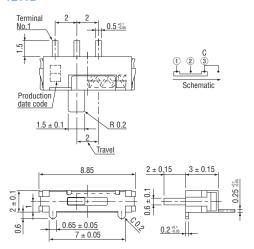


• CSS-1312B

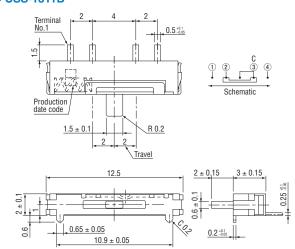


Unless otherwise specified, tolerance : \pm 0.2 (Unit : mm)

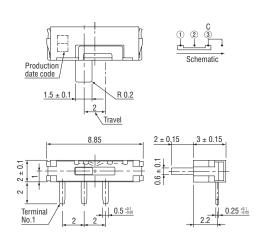
• CSS-1211B



• CSS-1311B



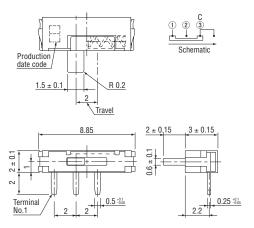
• CSS-1210C



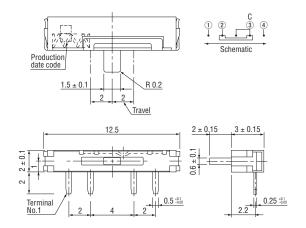
COMPACT SLIDE SWITCHES

OUTLINE DIMENSIONS

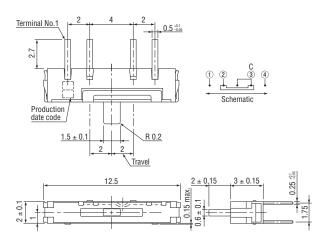
• CSS-1211C



• CSS-1311C

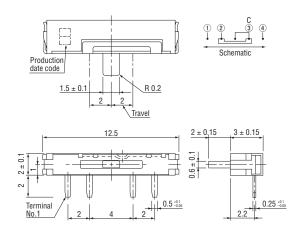


• CSS-1300C

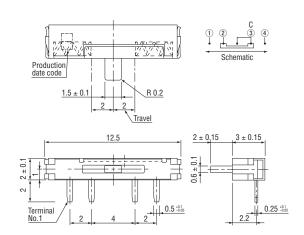


Unless otherwise specified, tolerance : \pm 0.2 (Unit : mm)

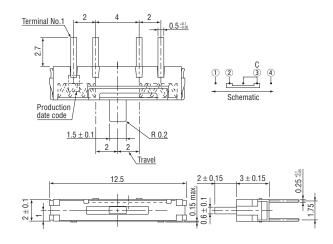
● CSS-1310C



• CSS-1312C



• CSS-1302C



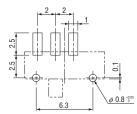
COMPACT SLIDE SWITCHES

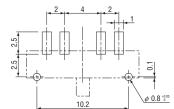
RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

● CSS-121 □ B

● CSS-131 🗆 B

(Unit: mm)





PACKAGING SPECIFICATIONS

Taping version is packaged in 1900 pcs. par reel.

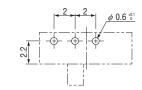
Taping version is boxed with 1 reel (1900 pcs.).

Maximum number of consecutive missing pieces = 2.

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

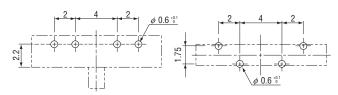
SIZE OF P.C.B. PROCESSING

● CSS-121 □ C

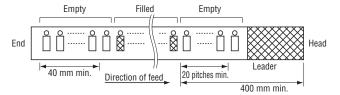


● CSS-131 □ C

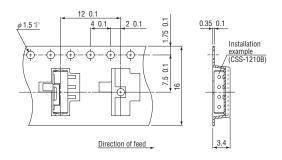
● CSS-130 □ C



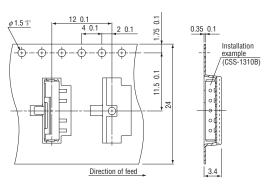
Embossed tape dimensions



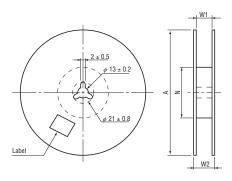
● CSS-121 □ TB



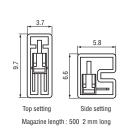
● CSS-131 □ TB



Reel dimensions



(Unit: mm)



Part number	А	W ₁	W2	N
121 □ TB	φ 330 ± 2	17.4 ± 1	21.4 ± 1	φ 80 ± 1
131 □ TB	φ 330 ± 2	25.4 ± 1	29.4 ± 1	φ 80 ± 1

acking quantity of magazine		
Part number	Quantity / Stick	
12 🗆	53	
10 🗆	20	