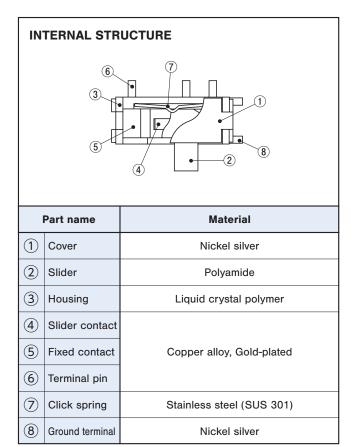


FEATURES

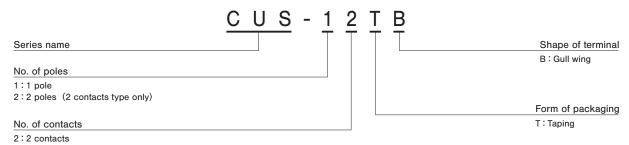
- Low-profile of 1.4 mm
- RoHS compliant
- Resin material is UL Recognized 94V-0

APPLICATIONS

■ Mobile stereo · LCD TV · Camcorder



■ PART NUMBER DESIGNATION



3:3 contacts

4:4 contacts

LIST OF PART NUMBERS

Schematic	No. of contacts	Shape of terminal	Form of packaging	Part number	Packaging quantity
1	2	B Gull wing	Taping	CUS-12TB	2500 pcs./reel
	3			CUS-13TB	
	4			CUS-14TB	
2	2			CUS-22TB	1400 pcs./reel

STANDARD SPECIFICATIONS

Operating temp. range	– 20 ~ 70 °C
Storage temp. range	− 40 ~ 85 °C
Sealing	Non washable
Net weight	Approx. 0.08 g (CUS-12) Approx. 0.10 g (CUS-13) Approx. 0.13 g (CUS-14) Approx. 0.11 g (CUS-22)

MECHANICAL CHARACTERISTICS

No. of positions	2, 3, 4		
Stroke	1.5 mm		
	CUS-12*1	2 ± 1.7 N {0.2 ± 0.17 kgf}	
	CUS-13**2	A → B : 1.5 ± 1.2 N {0.15 ± 0.12 kgf}	
		$B \rightarrow C : 2 \pm 1.7 \text{ N } \{0.2 \pm 0.17 \text{ kgf}\}$	
		$C \rightarrow B : 1.5 \pm 1.2 \text{ N } \{0.15 \pm 0.12 \text{ kgf}\}$	
		$B \rightarrow A : 2 \pm 1.7 \text{ N } \{0.2 \pm 0.17 \text{ kgf}\}$	
Operating force	CUS-14*3	A → B : 1.5 ± 1.2 N {0.15 ± 0.12 kgf}	
Operating force		B → C : 2 ± 1.7 N {0.2 ± 0.17 kgf}	
		$C \rightarrow D : 2 \pm 1.7 \text{ N } \{0.2 \pm 0.17 \text{ kgf}\}$	
		D → C : 1.5 ± 1.2 N {0.15 ± 0.12 kgf}	
		C → B : 2 ± 1.7 N {0.2 ± 0.17 kgf}	
		B → A : 2 ± 1.7 N {0.2 ± 0.17 kgf}	
	CUS-22 ** 4	2 ± 1.7 N {0.2 ± 0.17 kgf}	
Stop strength	10 N {1.02 kgf} 15 s		
Solderability	245 ± 3 °C 2 ~ 3 s		
Caldaring boot	Reflow peak : 250 ~ 255 °C		
Soldering heat	Manual soldering : 350 ± 10 °C 3 ~ 4 s		
Shear	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		

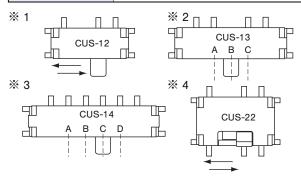
{ }: Reference only

ELECTRICAL CHARACTERISTICS

Contact rating Non-switching Switching Minimum	DC50 V 100 mA DC4 V 300 mA DC20 mV 1 µA
Contact timing	Non-shorting
Contact resistance	70 mΩ maximum
Insulation resistance	100 MΩ minimum (DC 100 V)
Dielectric strength	AC100 V 60 s

ENVIRONMENTAL CHARACTERISTICS

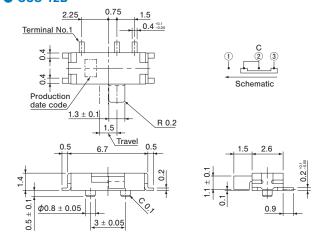
Vibration	(Amplitude) 1.5 mm or (Acceleration) 98 m/s², 10-500-10 Hz, 3 directions for 10 cycles each
Shock	490 m/s ² , 11 ms, 6 directions for 3 times each
Load life	Continuous load 10000 cycles, DC4 ± 0.5 V, 300 ± 10 mA
Humidity	40 °C, Relative humidity 90 ~ 95 %, 240 h, No load
High temp. exposure	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

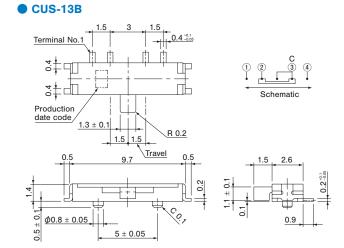


LOW-PROFILE SLIDE SWITCHES

OUTLINE DIMENSIONS

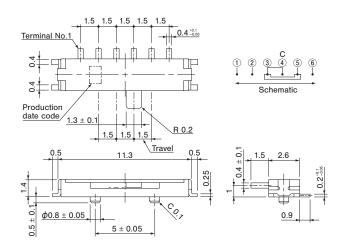
● CUS-12B

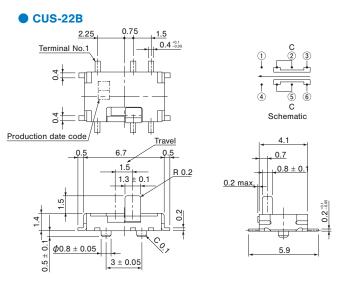




Unless otherwise specified, tolerance : \pm 0.2 (Unit : mm)

CUS-14B





RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

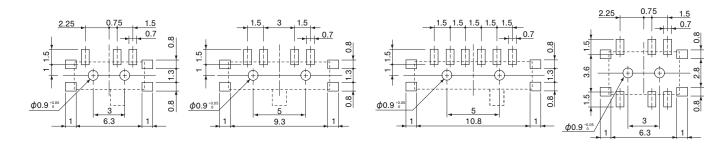
(Unit: mm)

CUS-12B

CUS-13B

CUS-14B

CUS-22B

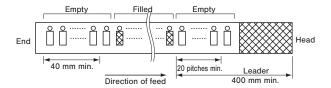


PACKAGING SPECIFICATIONS

Taping version is packaged in 2500 pcs. par reel (1400 pcs. for CUS-22).

Taping version is boxed with 1 reel (2500 pcs. or 1400 pcs.). Maximum number of consecutive missing pieces = 2. Leader length and reel dimension are shown in the diagrams below.

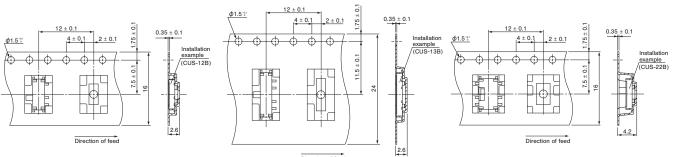
Embossed tape dimensions



● CUS-12TB

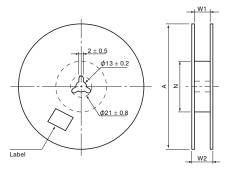
● CUS-13TB, CUS-14TB

CUS-22TB



Reel dimensions

(Unit: mm)



Reel shape and dimensions

Part number	А	W ₁	W ₂	N
12TB, 22TB	Ø 330 ± 2	17.4 ± 1	21.4 ± 1	Ø 80 ± 1
13TB, 14TB	Ø 330 ± 2	25.4 ± 1	29.4 ± 1	Ø 80 ± 1