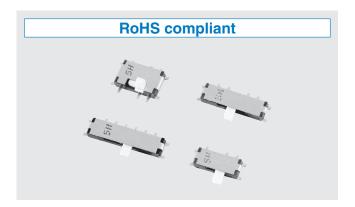
LOW-PROFILE SLIDE SWITCHES



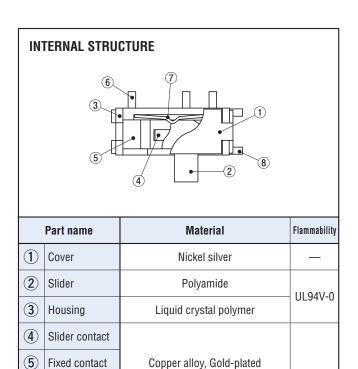


FEATURES

- Low-profile of 1.4 mm
- RoHS compliant

APPLICATIONS

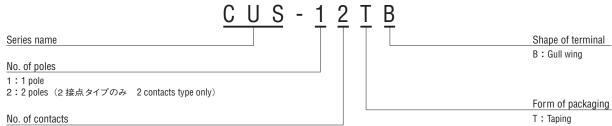
■ Mobile stereo · LCD TV · Camcorder



Stainless steel (SUS 301)

Nickel silver

PART NUMBER DESIGNATION



(6)

(7)

Terminal pin

Click spring

Ground terminal

- 2:2 contacts
- 3:3 contacts
- 4:4 contacts

■ LIST OF PART NUMBERS

Schematic	No. of contacts	Shape of terminal	Form of packaging	Part number	Pieces in package
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 \pm 1.7 N {0.2 \pm 0.17 kgf}		
	CUS-13**2	A \rightarrow B : 1.5 \pm 1.2 N {0.15 \pm 0.12 kgf} B \rightarrow C : 2 \pm 1.7 N {0.2 \pm 0.17 kgf} C \rightarrow B : 1.5 \pm 1.2 N {0.15 \pm 0.12 kgf} B \rightarrow A : 2 \pm 1.7 N {0.2 \pm 0.17 kgf}	
Operating force		$\begin{array}{l} A \rightarrow B: 1.5 \pm 1.2 \ N \ \{0.15 \pm 0.12 \ kgf\} \\ B \rightarrow C: 2 \pm 1.7 \ N \ \{0.2 \pm 0.17 \ kgf\} \\ C \rightarrow D: 2 \pm 1.7 \ N \ \{0.2 \pm 0.17 \ kgf\} \end{array}$	
		$D \rightarrow C: 1.5 \pm 1.2 \text{ N} \{0.15 \pm 0.12 \text{ kgf}\}\$ $C \rightarrow B: 2 \pm 1.7 \text{ N} \{0.2 \pm 0.17 \text{ kgf}\}\$ $B \rightarrow A: 2 \pm 1.7 \text{ N} \{0.2 \pm 0.17 \text{ kgf}\}\$	
	CUS-22 ^ 1	$2 \pm 1.7 \text{ N } \{0.2 \pm 0.17 \text{ kgf}\}$	
Stop strength	10 N {1.02 kgf} 15 s		
Solderability	245 ± 3 °C 2 ~ 3 s		
Oaldarina baat	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		

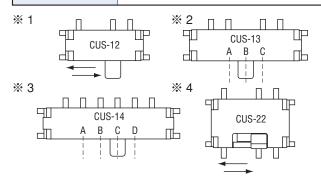
{ }: Reference only

■ 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 m Ω maximum
Insulation resistance	100 M Ω minimum (DC 100 V)
Dielectric strength	AC100 V 60 s

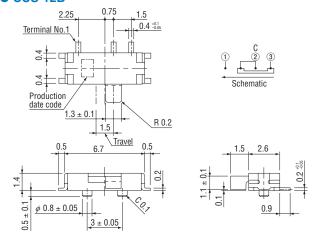
ENVIRONMENTAL CHARACTERISTICS

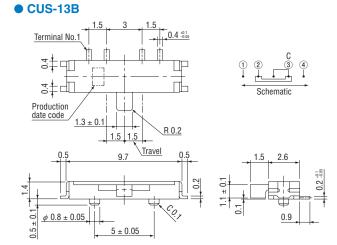
Vibration	(Amplitude) 1.5 mmor (Acceleration) 98 m/s², 10-500-10 Hz, 3 directions for 10 cycles each
Shock	490 m/s ² , 11 ms, 6 directions for 3 times each
Load life	Continuous load 10000 cycles, DC4 \pm 0.5 V, 300 \pm 10 mA
Humidity	40 °C, Relative humidity 90 ~ 95 %, 240 h, No load
High temp. exposure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



OUTLINE DIMENSIONS

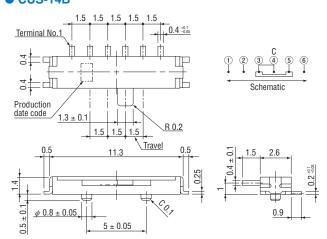
CUS-12B



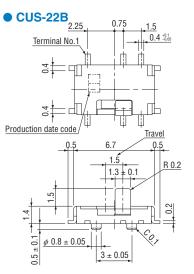


Unless otherwise specified, tolerance : \pm 0.2 (Unit : mm)

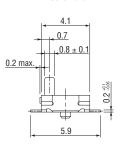
CUS-14B











RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

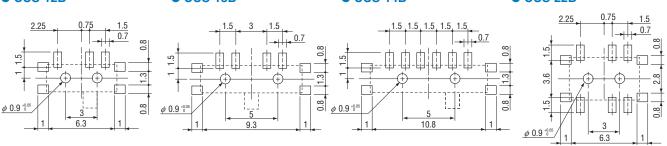
(Unit:mm)





CUS-14B

CUS-22B

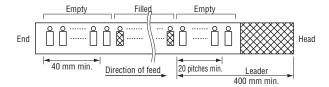


PACKAGING SPECIFICATIONS

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

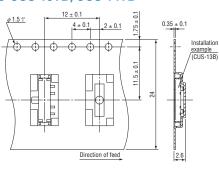
Taping version is boxed with 1 reel (2500 pcs. or 1400 pcs.). Maximum number of consecutive missing pieces = 2. Leader length and reel dimension are shown in the diagrams below.

Embossed tape dimensions

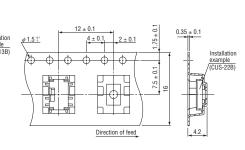


• CUS-12TB

• CUS-13TB, CUS-14TB

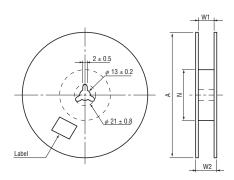


• CUS-22TB



Reel dimensions

(Unit: mm)



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nidec:

CUS-12TB CUS-22TB CUS-14TB CUS-13TB