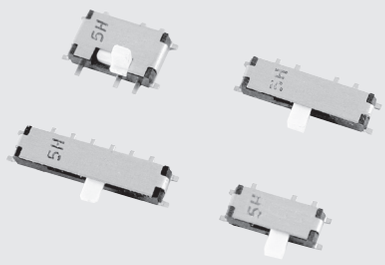
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LOW-PROFILE SLIDE SWITCHES CUS

RoHS compliant



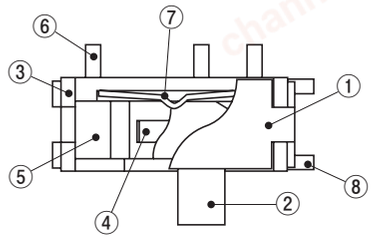
■ FEATURES

- Low-profile of 1.4 mm
- RoHS compliant

■ APPLICATIONS

- Mobile stereo · LCD TV · Camcorder

INTERNAL STRUCTURE



Part name		Material	Flammability
①	Cover	Nickel silver	—
②	Slider	Polyamide	UL94V-0
③	Housing	Liquid crystal polymer	
④	Slider contact	Copper alloy, Gold-plated	—
⑤	Fixed contact		
⑥	Terminal pin		
⑦	Click spring	Stainless steel (SUS 301)	
⑧	Ground terminal	Nickel silver	

■ PART NUMBER DESIGNATION

C U S - 1 2 T B

Series name

No. of poles
1：1 pole
2：2 poles（2 接点タイプのみ　2 contacts type only）

No. of contacts
2：2 contacts
3：3 contacts
4：4 contacts

Form of packaging
T：Taping

Shape of terminal
B：Gull wing

※ Please refer to the LIST OF PART NUMBERS when placing orders.

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CUS
LOW-PROFILE SLIDE SWITCHES

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)

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

MECHANICAL CHARACTERISTICS

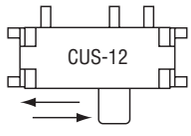
No. of positions	2, 3, 4	
Stroke	1.5 mm	
Operating force	CUS-12 ※1	2 ± 1.7 N {0.2 ± 0.17 kgf}
	CUS-13 ※2	A → B : 1.5 ± 1.2 N {0.15 ± 0.12 kgf}
		B → C : 2 ± 1.7 N {0.2 ± 0.17 kgf}
		C → B : 1.5 ± 1.2 N {0.15 ± 0.12 kgf}
		B → A : 2 ± 1.7 N {0.2 ± 0.17 kgf}
	CUS-14 ※3	A → B : 1.5 ± 1.2 N {0.15 ± 0.12 kgf}
		B → C : 2 ± 1.7 N {0.2 ± 0.17 kgf}
		C → D : 2 ± 1.7 N {0.2 ± 0.17 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	
Soldering heat	Reflow peak : 250 ~ 255 °C	
	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

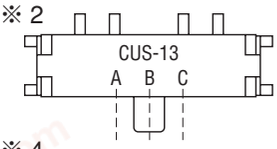
ENVIRONMENTAL CHARACTERISTICS

Vibration	(Amplitude) 1.5 mmor (Acceleration) 98 m/s^2, 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

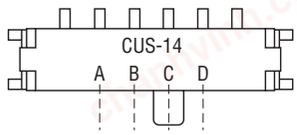
※ 1



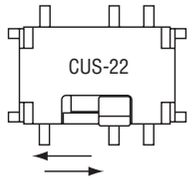
※ 2



※ 3



※ 4



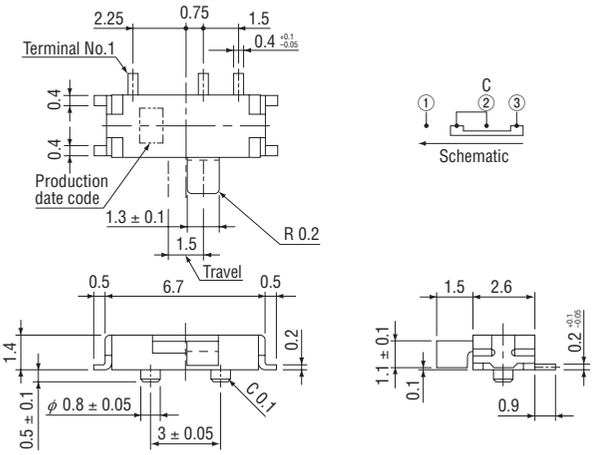
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LOW-PROFILE SLIDE SWITCHES

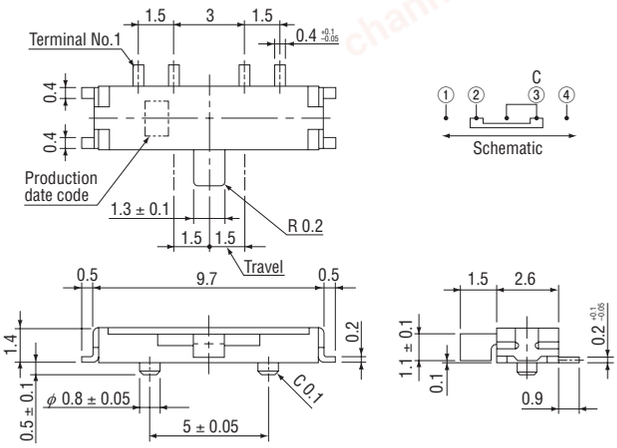
■ OUTLINE DIMENSIONS

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

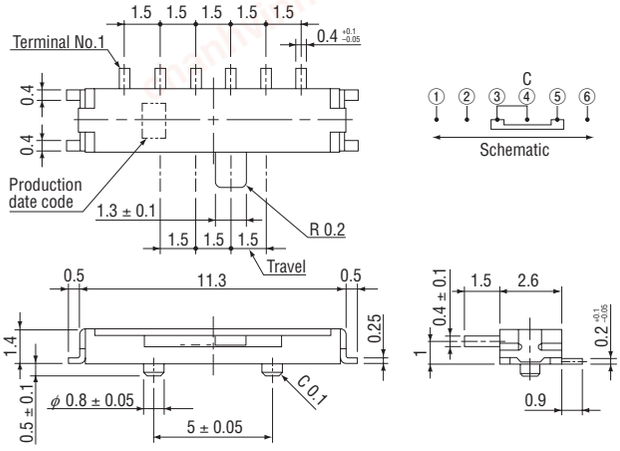
● CUS-12B



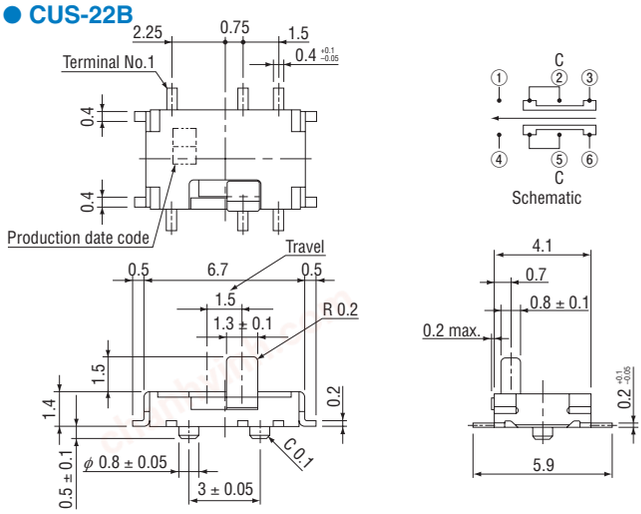
● CUS-13B



● CUS-14B



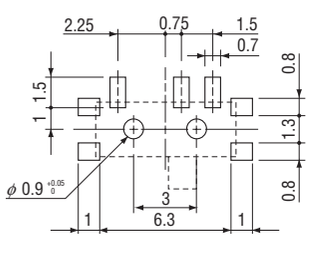
● CUS-22B



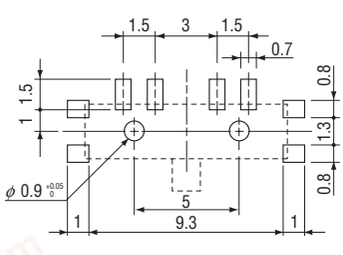
■ RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

(Unit : mm)

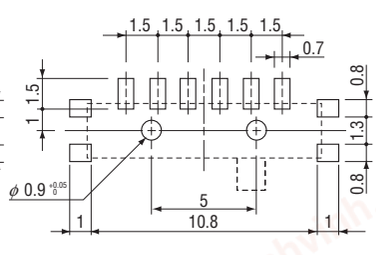
● CUS-12B



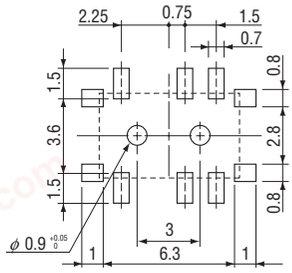
● CUS-13B



● CUS-14B



● CUS-22B

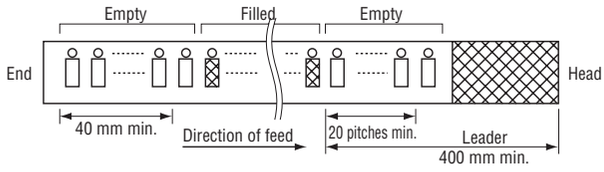


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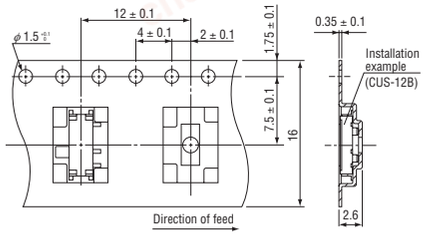
PACKAGING SPECIFICATIONS

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.

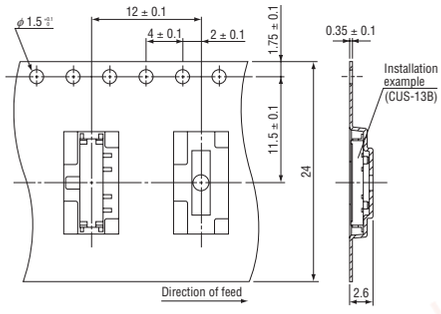
Embossed tape dimensions



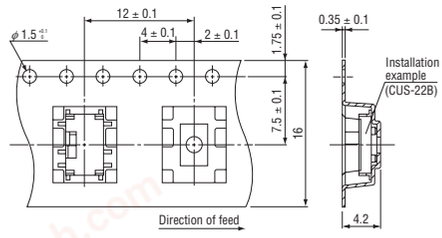
● CUS-12TB



● CUS-13TB, CUS-14TB

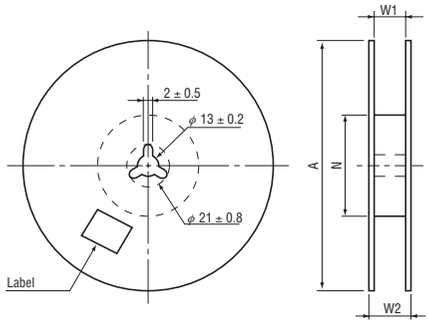


● CUS-22TB



● Reel dimensions

(Unit: mm)



Part number	A	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