imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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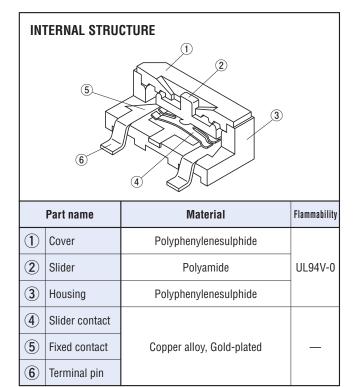




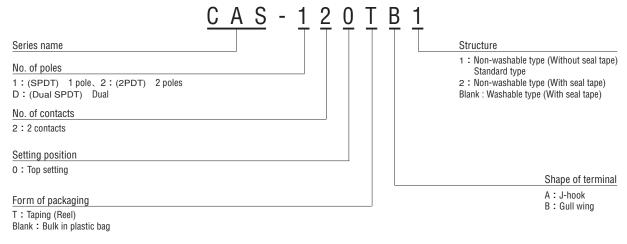


FEATURES

- RoHS compliant
- Compatible with most automatic pick & place machinery
- Compact and space saving SMD type
- Excellent contact stability by twin Gold-plated contact
- Low profile design of 2.5 mm



PART NUMBER DESIGNATION



SPDT : Single Pole Double Throw 2PDT : Two Poles Double Throw

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

No. of poles	No. of contacts	Setting position	Form of packaging	Non-washable type (Without seal tape)		Non-washable type (With seal tape)		Pieces in
				A (J-hook)	B (Gull wing)	A (J-hook)	B (Gull wing)	package
1		Top setting	Taping	CAS-120TA1	CAS-120TB1	CAS-120TA2	CAS-120TB2	1000pcs./reel
	2		Plastic bag	CAS-120A1	CAS-120B1	CAS-120A2	CAS-120B2	100pcs./pack
2 Dual			Taping	CAS-220TA1	CAS-220TB1	CAS-220TA2	CAS-220TB2	1000pcs./reel
			Plastic bag	CAS-220A1	CAS-220B1	CAS-220A2	CAS-220B2	100pcs./pack
			Taping	CAS-D20TA1	CAS-D20TB1	CAS-D20TA2	CAS-D20TB2	1000pcs./reel
			Plastic bag	CAS-D20A1	CAS-D20B1	CAS-D20A2	CAS-D20B2	100pcs./pack

LIST OF PART NUMBERS

No. of	No. of contacts	Setting position	Form of packaging	Washable type	Pieces in	
poles				A (J-hook)	B (Gull wing)	package
1 2 Dual	2	Top setting	Taping	CAS-120TA	CAS-120TB	1000pcs./reel
			Plastic bag	CAS-120A	CAS-120B	100pcs./pack
			Taping	CAS-220TA	CAS-220TB	1000pcs./reel
			Plastic bag	CAS-220A	CAS-220B	100pcs./pack
			Taping	CAS-D20TA	CAS-D20TB	1000pcs./reel
			Plastic bag	CAS-D20A	CAS-D20B	100pcs./pack

% Verify the above part numbers when placing orders. Taping version can be supplied only in reel unit.

STANDARD SPECIFICATIONS

Operating temp. range	- 40 ∼ 85 °C	
保存温度範囲 Storage temp. range	- 40 ~ 65 0	
Sealing	Washable type available with seal tape	
Net weight	Approx. 0.05g (CAS-120) Approx. 0.08g (CAS-220/D20)	

ELECTRICAL CHARACTERISTICS

Contact rating Non-switching Switching Minimum	DC50 V 100 mA DC6 V, 100 mA DC24 V, 25 mA DC20 mV 1 μA
Contact resistance	50 m Ω maximum
Insulation resistance	1000 MΩ (DC100 V) minimum
Dielectric strength	AC500 V, 60 s

MECHANICAL CHARACTERISTICS

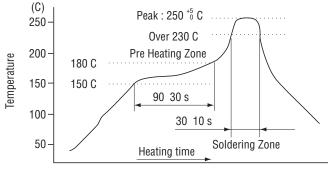
Operating force	0.5 ~ 5 N {0.05 ~ 0.51 kgf}	
Stop strength	10 N {1.02 kgf}, 60 s	
Solderability	245 ± 3 °C, 2 ~ 3 s	
Soldering heat	Reflow:255 °C (Peak temperature) (Please refer to the profile below)	
Soluering near	Manual soldering : 350 \pm 10 °C, 3 ~ 4 s	
Shear (Adhesion)	5 N {0.51 kgf} 10 s	
Substrate bending	Width 90 mm, bend 3 mm, 5 s, 1 time	
Pull-off strength	5 N {0.51 kgf} 10 s	

{ }: Reference only

ENVIRONMENTAL CHARACTERISTICS

Vibration	(Amplitude) 1.5 mm or (Acceleration) 98 m/s ² , 10-500 Hz, 3 directions for 10 cycles each	
Shock	490 m/s ² , 11 ms 6 directions for 3 times each	
Load life	Continuous load 2000 cycles, DC6 \pm 0.5 V, 100 \pm 10 mA	
Humidity	–10 ~ 65 °C, Relative humidity 0 ~ 96 %, 24 h for 10 cycles	
High temp. exposure	85 °C, 96 h	
Low temp. exposure	−40 °C, 96 h	
Thermal shock	-40 (0.5 h) ~ 85 °C (0.5 h), 5 cycles	

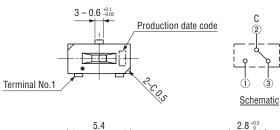
<Reflow profile for soldering heat evaluation>

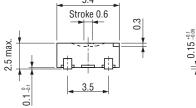


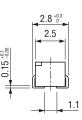
Reflow : two times maximum

OUTLINE DIMENSIONS

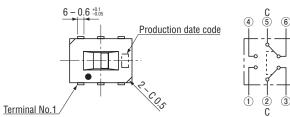




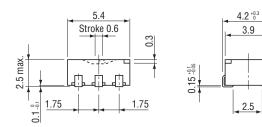




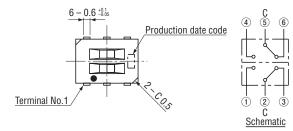
• CAS-220A1

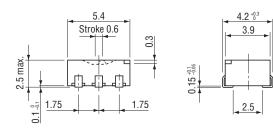




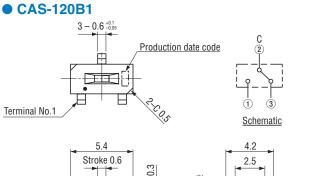


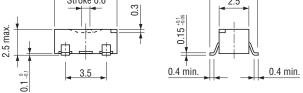
• CAS-D20A1



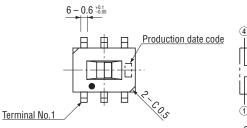


Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

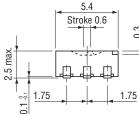


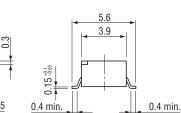


• CAS-220B1

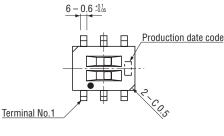








CAS-D20B1



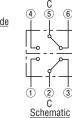
5.4

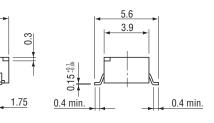
Stroke 0.6

巾

2.5 max.

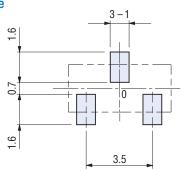
⊶ā <u>1.75</u> 50

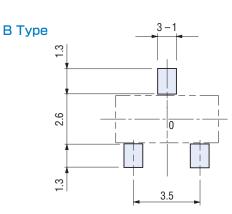




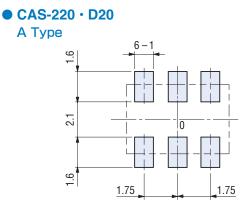
RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

• CAS-120 A Type

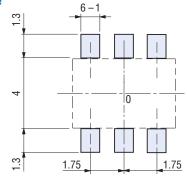




(Unit : mm)



В Туре



Note) The zero point is the center of mounting.

CAS SLIDE SWITCHES (SMD)

PACKAGING SPECIFICATIONS

<Taping packaging specifications>

Embossed tape dimensions

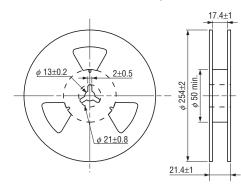
- Taping version is packaged in 1000 pcs. per reel. Orders will be accepted for units of 1000 pcs., i.e., 1000, 2000, 3000 pcs., etc.
- Taping version is boxed with two reels (2000 pcs.).

Maximum number of consecutive missing pieces=2 Leader length and reel dimension are shown in the diagrams below:

End Head Head Head Head Direction of feed Head Head

Reel dimensions

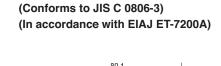
(Unit: mm) (Conforms to JIS C 0806-3)

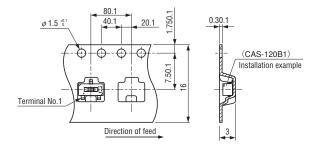


• CAS-120TA, TB

• CAS-220TA, TB • D20TA, TB

(Unit: mm)





<Bulk pack specifications>

• Boxing of bulk pack in a plastic bag is performed with 100 pcs. (standard 500 pcs.) per box.

