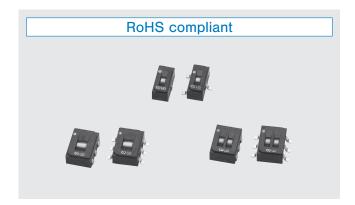
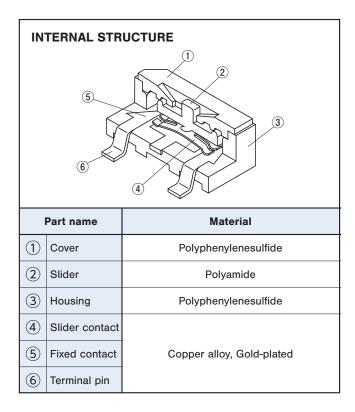
SLIDE SWITCHES (SMD)



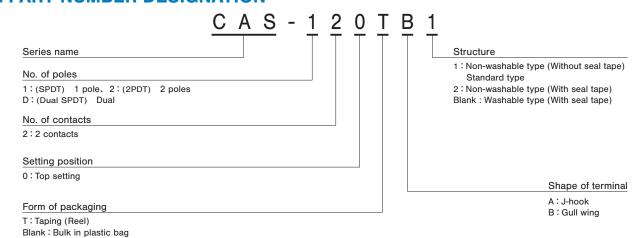


FEATURES

- 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
- Resin material is UL Recognized 94V-0



PART NUMBER DESIGNATION



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

CAS SLIDE SWITCHES (SMD)

■ LIST OF PART NUMBERS

No. of poles	No. of contacts	Setting position	Form of packaging	Non-washable type (Without seal tape)		Non-washable type (With seal tape)		Packaging
				A(J-hook)	B(Gull wing)	A(J-hook)	B(Gull wing)	quantity
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

No. of	No. of contacts	Setting position	Form of packaging	Washable type	Packaging	
poles				A(J-hook)	B(Gull wing)	quantity
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

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

STANDARD SPECIFICATIONS

Operating temp. range	− 40 ~ 85 °C	
Storage temp. range		
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 mΩ maximum
Insulation resistance	1000 MΩ (DC100 V) minimum
Dielectric strength	AC500 V, 60 s

MECHANICAL CHARACTERISTICS

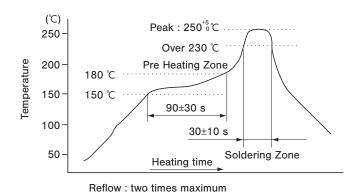
Operating force	0.5 ~ 5 N {0.05 ~ 0.51 kgf}	
Stop strength	10 N {1.02 kgf}, 60 s	
Solderability	245 ± 3 °C, 2 ~ 3 s	
Coldoring boot	Reflow: 255 °C (Peak temperature) (Please refer to the profile below)	
Soldering heat	Manual soldering : 350 \pm 10 °C, 3 ~ 4 s	
Shear (Adhesion)	5 N {0.51 kgf} 10 s	
Substrate 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/s², 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	$-10 \sim 65$ °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⟩

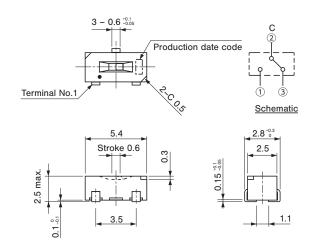


CAS

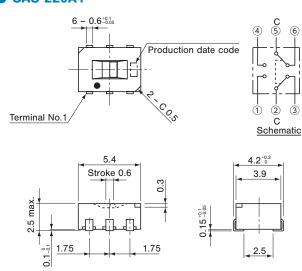
SLIDE SWITCHES (SMD)

OUTLINE DIMENSIONS

CAS-120A1

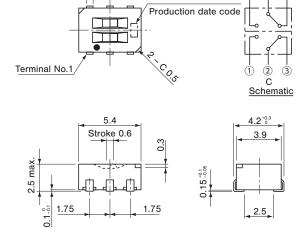


CAS-220A1



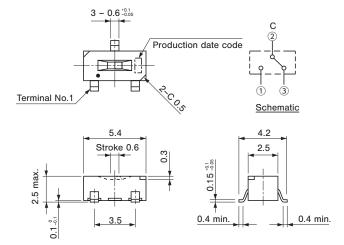
CAS-D20A1

 $6 - 0.6^{+0.1}_{-0.05}$

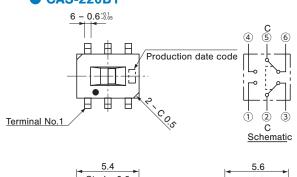


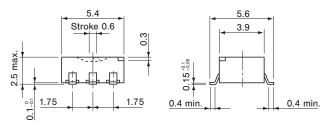
Unless otherwise specified, tolerance : ± 0.3 (Unit : mm)

CAS-120B1

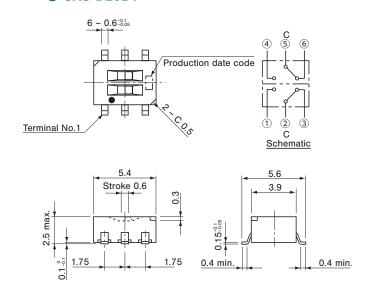


CAS-220B1





CAS-D20B1

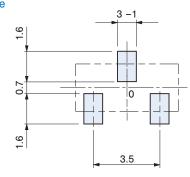


(Unit: mm)

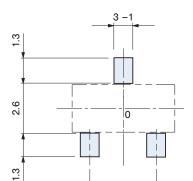
RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

CAS-120

A Type



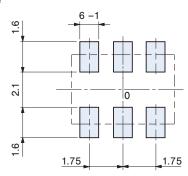
B Type



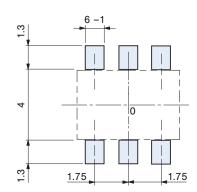
3.5

OCAS-220 • D20

A Type



В Туре



Note) The zero point is the center of mounting.

CAS

SLIDE SWITCHES (SMD)

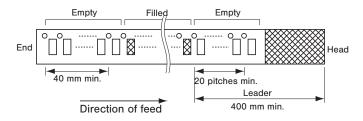
PACKAGING SPECIFICATIONS

<a>Taping packaging specifications>

- 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.).

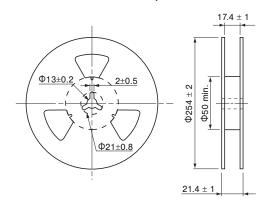
Maximum number of consecutive missing pieces=2 Leader length and reel dimension are shown in the diagrams below:

Embossed tape dimensions

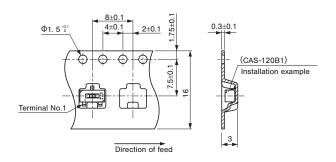


Reel dimensions

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



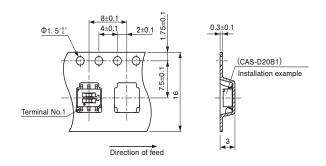
CAS-120TA, TB



● CAS-220TA, TB • D20TA, TB

(Unit: mm)

(Conforms to JIS C 0806-3) (In accordance with EIAJ ET-7200A)



<Bulk pack specifications>

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