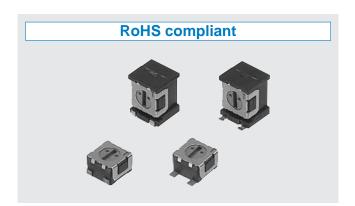
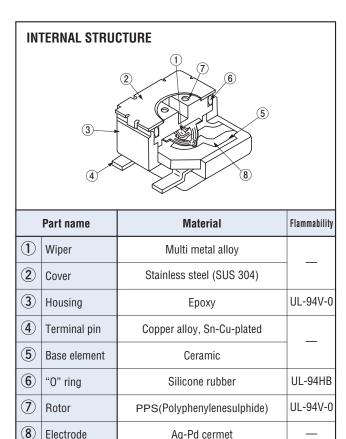


CS-32



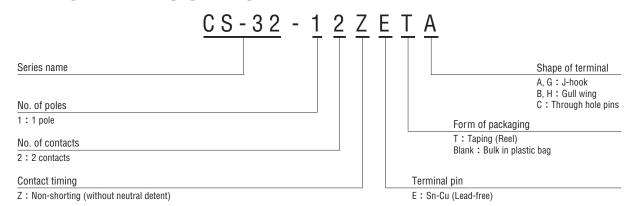
FEATURES

- RoHS compliant
- Optimum for high density board mounting applications
- Compatible with most automatic pick & place machinery
- Protection against dust and washable after soldering
- Top and side setting types are available
- Same dimensions as ST-32 trimmer and conveniently usable as a set



Ag-Pd cermet

PART NUMBER DESIGNATION



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



SCHEMATICS DIAGRAMS

• 1 pole 2 contacts

Series	Switching specifications	Schematic
CS-32-12ZEA	OFF	
		(W) (W)

LIST OF PART NUMBERS

Circui	t type	Setting position	Form of packaging	J-hook A, G	Gull wing B, H	Through hole pins C	Pieces in package
1 pole Whitout	Top setting -	Taping	CS-32-12ZETA	CS-32-12ZETB		500 pcs. /reel	
		Plastic bag	CS-32-12ZEA	CS-32-12ZEB	CS-32-12ZEC	100 pcs. /pack	
2 contacts	2 contacts neutral detent	Cido cottina	Taping	CS-32-12ZETG	CS-32-12ZETH		500 pcs. /reel
	Side setting	Plastic bag	CS-32-12ZEG	CS-32-12ZEH		100 pcs. /pack	

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



STANDARD SPECIFICATIONS

Circuit type	1 pole 2 contacts	
Operating temperature range	−40 ~ 85 °C	
Storage temperature range	-40 ~ 00 C	
Sealing	Washable by "O" ring	
Net weight	Approx. 0.05g (A, B) Approx. 0.06g (C) Approx. 0.11g (G, H)	

MECHANICAL CHARACTERISTICS

No. of positions	2
Adjustment torque	5 mN·m {51 gf·cm} maximum
Stopper strength	20 mN·m {204 gf·cm} minimum
Stepping angle	250° ± 15°
Solderability	Sn-Cu (lead-free):245 ± 3 °C, 2 ~ 3 s
Soldering heat	Sn-Cu (Lead-free) Flow: 260 ± 3 °C as the temperature in a pot of molten solder, immersion from head of terminal to backside of board, 5 ~ 6 s, two times maximum. Reflow: Peak temperature 255 °C (Please refer to the profile below.) Manual soldering: 350 ± 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

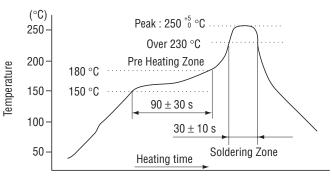
ELECTRICAL CHARACTERISTICS

Contact rating	0.5 VA
Maximum current	100 mA
Maximum voltage	16 V
Contact timing	Non-shorting
Contact resistance	2 Ω maximum
Insulation resistance	100 MΩ (DC500 V) minimum
Dielectric strength	AC250 V, 60 s

ENVIRONMENTAL CHARACTERISTICS

Vibration	Amplitude 1.5 mm or Acceleration 98 m/s², 10-500-10 Hz, 3 directions for 3 times each
Shock	490 m/s², 11 ms 6 directions for 3 times each
Load life	50 cycles minimum DC16 V 30 mA
Humidity (Steady state)	40 °C, Relative humidity 90 ~ 95 %, 240 h
High temperature exposure	85 °C, 96 h
Low temperature exposure	−40 °C, 96 h
Thermal shock	-40 (0.5 h) ~ 85 °C (0.5 h), 5 cycles

⟨Reflow profile for soldering heat evaluation⟩



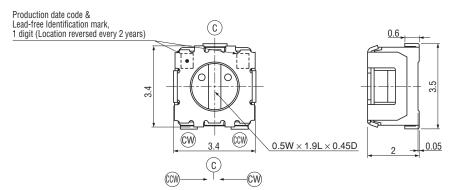
Reflow: two times maximum

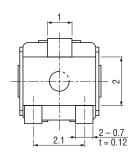


OUTLINE DIMENSIONS

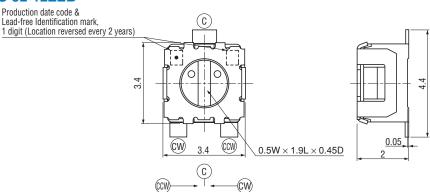
Unless otherwise specified, tolerance: ± 0.3 (Unit: mm)

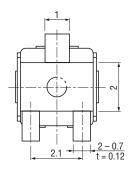
● CS-32-12ZEA



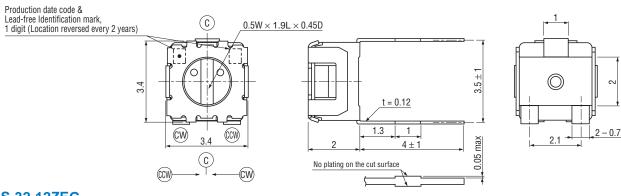


● CS-32-12ZEB

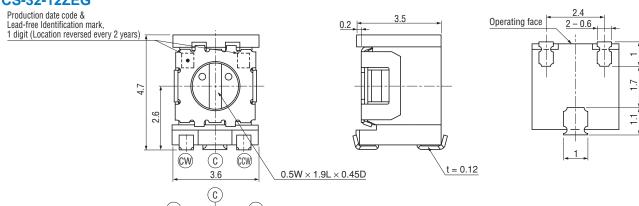




CS-32-12ZEC



● CS-32-12ZEG





(Unit: mm)

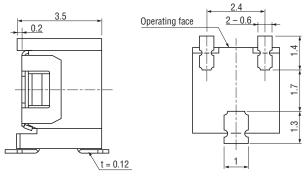
CS-32 ROTARY SELECTOR SWITCHES (SMD)

OUTLINE DIMENSIONS

● CS-32-12ZEH

Production date code & Lead-free Identification mark, 1 digit (Location reversed every 2 years)

Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)

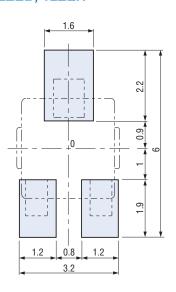


TRECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

• CS-32-12ZEA, 12ZEG

1.2 0.8 1.2 3.2

● CS-32-12ZEB, 12ZEH



Note 1) The zero point is the center of mounting.

Note 2) The land patterns conform to EIAJ RC2161.

Note 3) The land patterns are for reflow soldering.



■ PACKAGING SPECIFICATIONS

<Taping packaging specifications>

- Taping version is packaged in 500 pcs. per reel.

 Orders will be accepted for units of 500 pcs., i.e., 500, 1000, 1500 pcs., etc.
- CS-32ZETA and ZETB versions are boxed with 4 reels (2000 pcs.). CS-32ZETG and ZETH versions are boxed with one reel (500 pcs.)

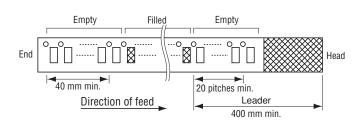
Maximum number of consecutive missing pieces = 2 Leader length and reel dimension are shown in the dia-grams below:

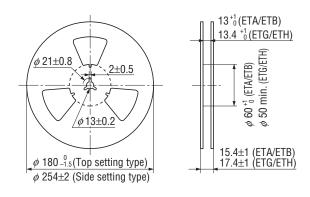
Embossed tape dimensions

Reel dimensions

(Unit: mm)

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



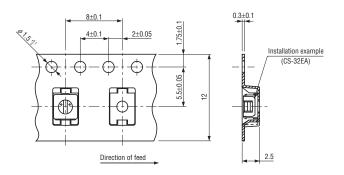


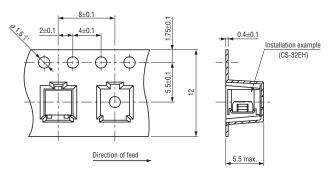
• CS-32-12ZETA/CS-32-12ZETB

• CS-32-12ZETG/CS-32-12ZETH

(Unit: mm)

(Conforms to JIS C 0806)





<Bulk pack specifications>

- The smallest unit of bulk pack in a plastic bag is 10 pcs. per pack. Orders will be accepted for unit of minimum 10 pcs., i.e., 10, 20, 30 pcs., etc.
- Boxing of bulk in a plastic bag is performed with 100 pcs. (standard 500 pcs.) per box.