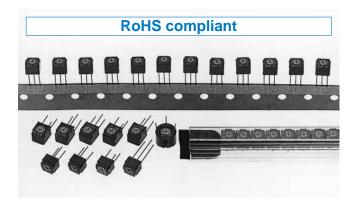


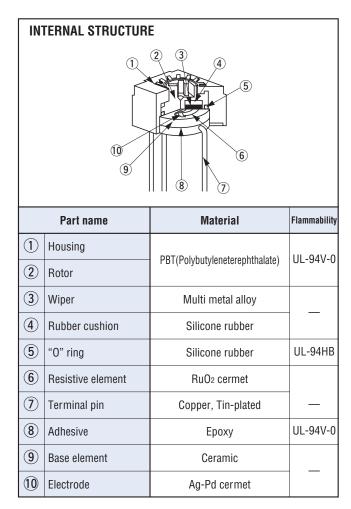
SINGLE TURN CERMET TRIMMERS

CT-6



FEATURES

- RoHS compliant
- Various configurations to choose from
- Wide variety (14 types)
- "O" ring sealed and washable



PART NUMBER DESIGNATION

 $5 k \Omega$ Series name Resistance code Terminal pin Resistance value E: Sn (Lead-free) Product shape P: Top adjustment S: Side adjustment W: Top adjustment X: Side adjustment Form of packaging R: Top adjustment H: Side adjustment T: Taping (Ammo pack type) V: Top adjustment N: Side adjustment M: Magazine (stick) F: Rear adjustment Blank: Bulk in plastic bag

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





LIST OF PART NUMBERS

Adjustment position	Shape of terminal (Top view)	Form of packaging			Remarks
position		Taping	Magazine (stick)	Plastic bag	nemans
	0 0	CT-6ETP Ammo pack type	CT-6EMP	CT-6EP	The pin length of CT-6ETP & CT-6EMP is different from CT-6EP.
Top adjustment	® °			CT-6EW	_
	①			€ CT-6ER	_
	0 0	CT-6ETV Ammo pack type		CT-6EV	_
	© 0 0 +		CT-6EMS	CT-6ES	The pin length of CT-6EMS is different from CT-6ES.
Side adjustment († Adjustment	③			CT-6EX	_
direction)	① ○ ○ ③ †	CT-6ETH Ammo pack type		CT-6EH	The pin length of CT-6ETH is different from CT-6EH.
	①			CT-6EN	_
Rear adjustment	10003			€ CT-6EF	_
Pieces in packaç	je	1000 pcs./taping	75 pcs./stick	50 pcs./pack	_

 \square : Not manufactured

The products indicated by $\ensuremath{\ensuremath{\,\widehat{\oplus}}}$ mark are manufactured upon receipt of order basis.

⟨Nominal resistance values⟩

Fig. 1

3 10 Ω	→ 20 Ω	50 Ω	100 Ω	200 Ω	500 Ω
1 kΩ	2 kΩ	5 kΩ	10 kΩ	20 kΩ	50 kΩ
100 kΩ	200 kΩ	500 kΩ	1 ΜΩ	2 MΩ	

The above part numbers are all available with the respective combination of <Nominal resistance values> (Fig. 1).

[%] Verify the above part numbers when placing orders.

^{**}Taping and magazine specifications are not sold separately and must be purchased in taping or stick units.



ELECTRICAL CHARACTERISTICS

Nominal resistance range	10 Ω ~ 2 MΩ	
Resistance tolerance	± 10 %	
Power ratings	0.5 W (70 °C) 0 W (120 °C)	
Resistance law	Linear law	
Maximum input voltage	DC200 V or power rating, whichever is smaller	
Maximum wiper current	100 mA or power rating, whichever is smaller	
Effective electrical angle	220 ° (1 turn)	
End resistance	1 % or 2 Ω , whichever is greater	
C.R.V.	1 % or 3 Ω , whichever is greater	
Operating temp. range	−55 ~ 120 °C	
Temp. coefficient	10 Ω ~ 20 Ω : \pm 250 10 ⁻⁶ /°C maximum 50 Ω ~ 2 M Ω : \pm 100 10 ⁻⁶ /°C maximum	
Insulation resistance	1000 MΩ minimum (DC500 V)	
Dielectric strength	AC900 V, 60 s	
Net weight	Approx. 0.51 g (CT-6EP, EW, ER, EV) Approx. 0.65 g (CT-6ES, EX, EH, EN) Approx. 0.92 g (CT-6EF)	

MECHANICAL CHARACTERISTICS

Mechanical angle	260 ° (1 turn)	
Operating torque	2 ~ 20 mN·m {20 ~ 204 gf·cm}	
Stop strength	50 mN·m {510 gf·cm} minimum	
Rotational life	200 cycles [Δ R/R \leq ± (2 Ω +3 %)]	
Teminal strength	10 N {1.02 kgf} minimum (Tensile strength)	
Thrust to rotor	10 N {1.02 kgf} minimum	
Solderability	245 ± 3 °C, 2 ~ 3 s	

{ }: Reference only

ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions	Specifications	
Thermal shock	-65 ~ 125 °C (0.5 h), 5 cycles	[Δ R/R ≦ 1 %] [S.S. ≦ 1 %]	
Humidity	-10 ~ 65 °C (80 ~ 98 %), 10 cycles, 240 h	$[\Delta R/R \le 2 \%]$	
Shock	981 m/s², 6 ms 6 directions for 3 times each	[Δ R/R ≤ 1 %] [S.S. ≤ 1 %]	
Vibration	Amplitude 1.52 mm or Acceleration 196 m/s², 10 ~ 2000 Hz, 3 directions, 12 times each		
Load life	70 °C, 0.5 W, 1000 h	[Δ R/R ≦ 3 %] [S.S. ≦ 1 %]	
Low temp. operation	−55 °C, 2 h	$\begin{bmatrix} \Delta R/R \leq 2 \% \\ [S.S. \leq 2 \%] \end{bmatrix}$	
High temp. exposure	120 °C, 250 h	$[\Delta R/R \le 3 \%]$ [S.S. \le 2 \%]	
Immersion seal	85 °C, 60 s	No leaks (No continuous bubbles)	
Soldering heat	Flow: 260 ± 3 °C 、5 - 6 s, two times maximum Manual soldering: 380 ± 10 °C, 3 ~ 4 s	[∆ R/R ≦ 1 %]	

 Δ R/R : Change in total resistance S.S. : Setting stability

MAXIMUM INPUT RATINGS

lominal resistance values (Ω)	Resistance code	Maximum input voltage (V)	Maximum wiper current (mA)
→ 10→ 20	100	1.00	100
	200	2.00	100
50	500	5.00	100
100	101	7.07	70.7
200	201	10.0	50.0
500	501	15.8	31.6
1 k	102	22.4	22.4
2 k	202	31.6	15.8
5 k	502	50.0	10.0
10 k	103	70.7	7.07
20 k	203	100	5.00
50 k	503	158	3.16
100 k	104	200	2.00
200 k	204	200	1.00
500 k	504	200	0.40
1 M	105	200	0.20
2 M	205	200	0.10

The products indicated by nark are manufactured upon

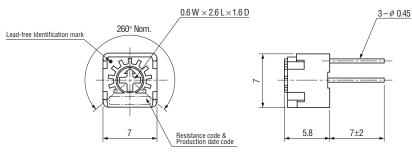
receipt of order basis.

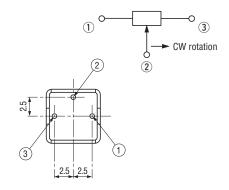


OUTLINE DIMENSIONS

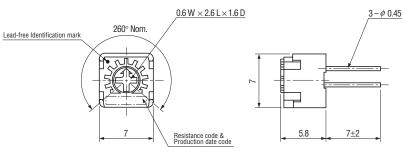
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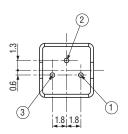
CT-6EPTop adjustment





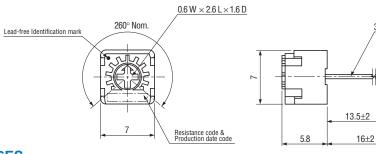
CT-6EWTop adjustment

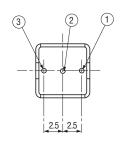




CT-6EVTop adjustment

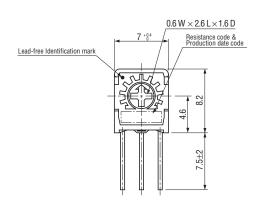
★Pin pitch in W type is different from P type.

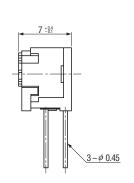


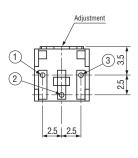


 $3 - \phi \ 0.45$

CT-6ESSide adjustment



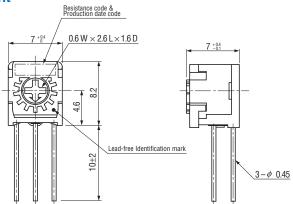




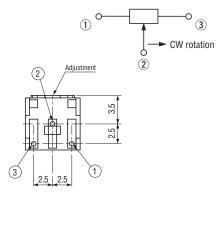


OUTLINE DIMENSIONS

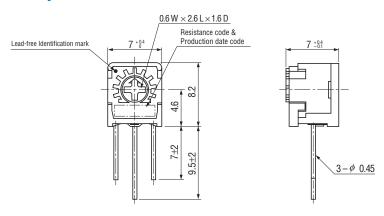
CT-6EXSide adjustment

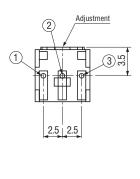


Unless otherwise specified, tolerance: $\pm\,0.3$ (Unit: mm)

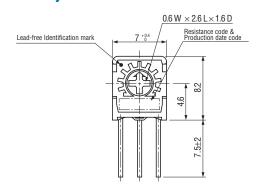


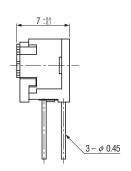
CT-6EHSide adjustment

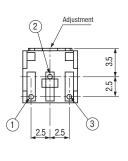




CT-6ENSide adjustment







★Terminals ① & ③ position in N type is different from X type.

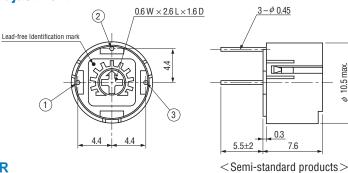


OUTLINE DIMENSIONS

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

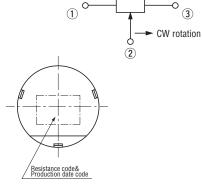
• CT-6EF

Rear adjustment

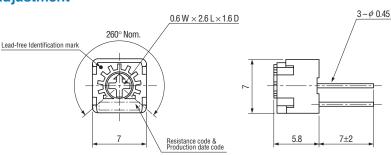


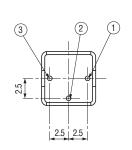
<Semi-standard products>

Jiliess otherwise specified, tolerance. ± 0.5 (Offic. IIIII)



CT-6ERTop adjustment

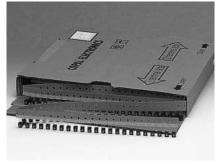




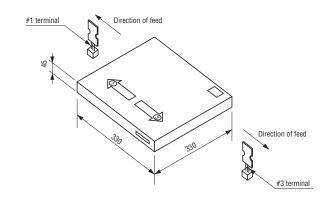
PACKAGING SPECIFICATIONS

<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 (ammo pack type) is boxed with one reel (1000 pcs.).



Ammo pack type



Ammo Pack

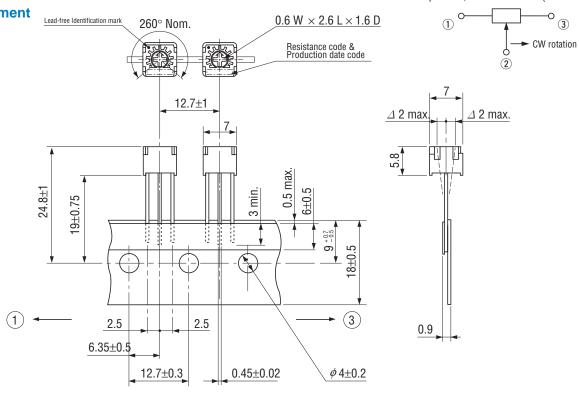
- Package size: 330 mm × 330 mm × 45 mm
- The leader and end of the tape have an empty part of minimum 300 mm respectively.
- There are two tape outlets on the package for different terminal alignment directions, for which details refer to the sketch above.
 - (e.g.) When the tape is fed from the right outlet marked ③, #3 terminal comes out first.
- Gross weight of the boxing version ETV : Approx. 840 g

ETH: Approx. 930 g ETP: Approx. 850 g

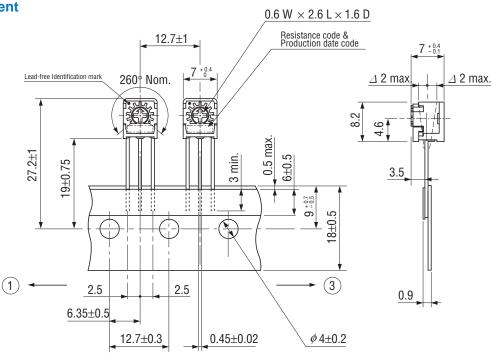


CT-6ETVTop adjustment

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



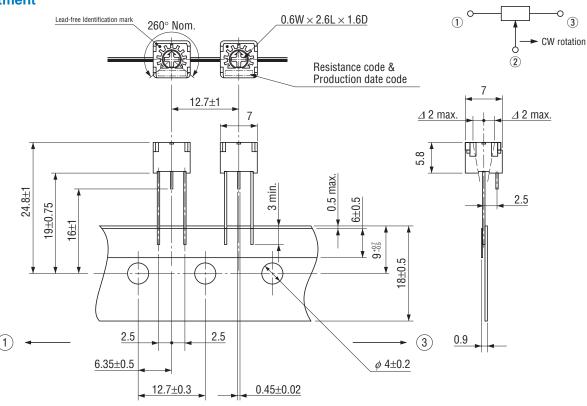
CT-6ETH Side adjustment





CT-6ETPTop adjustment

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

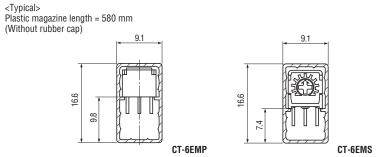


<Magazine packaging specifications>

- Magazine is packaged 75 pcs. per stick.
 Orders will be accepted for units of 75 pcs. i.e., 150, 225 pcs., etc.
- Magazine is packed 3000 pcs. sticks per box.

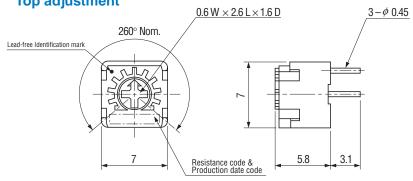


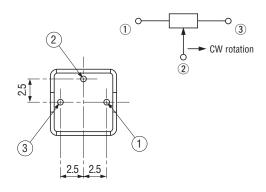
Plastic magazine type



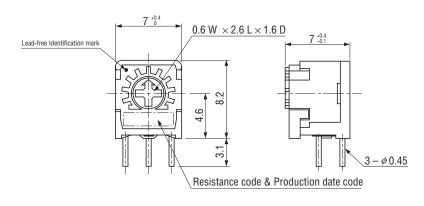


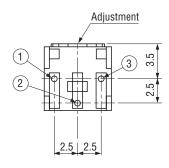
CT-6EMP Top adjustment Unless otherwise specified, tolerance: ± 0.3 (Unit: mm)





CT-6EMS Side adjustment





<Bulk pack specifications>

- Unit of bulk pack in a plastic bag is 50 pcs. per pack.
- Boxing of bulk in a plastic bag is performed with 200 pcs. (CT-6EF is 100 pcs.) per box.

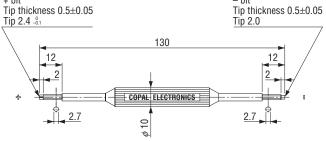
■ADJUSTMENT TOOL, MODEL TA-64

- Good for both minus and cross slot rotors / shafts.
- Recommended for use with the following copal trimmers.

Recommended models		
+ bit	– bit	
CT-6	ST-4	
FT-63	RJ-4	
	RJ-6	
	TM-7	

+ bit Tip thickness 0.5±0.05 - bit Tip thickness 0.5±0.05 Tip 2.0

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



Material: Polyoxymethylene

Note: Please do not use the tool for purposes other than adjustment of electronic components.