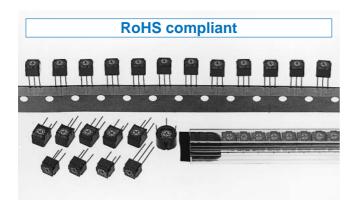
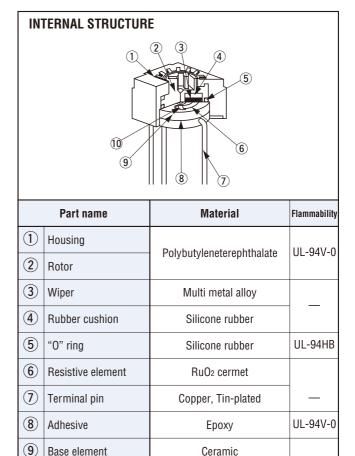
SINGLE TURN CERMET TRIMMERS

CT-6



FEATURES

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

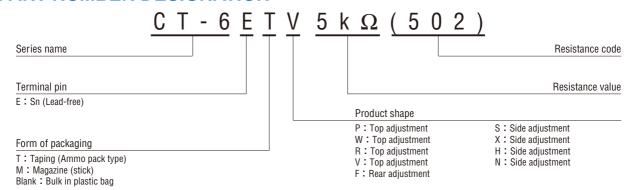


CFCs, Halon, Carbon tetrachloride and designated bromic flame retardant PBBOs and PBBs are not used in our products.

Ceramic

Ag-Pd cermet

■ PART NUMBER DESIGNATION



10

Electrode

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

■ LIST OF PART NUMBERS

Adjustment	Shape of terminal (Top view)		Form of packaging	Remarks	
position		Taping	Magazine (stick)	Plastic bag	nelliairs
	0 3	CT-6ETP Ammo pack type	CT-6EMP	CT-6EP	The pin length of CT-6ETP & CT-6EMP is different from CT-6EP.
Top adjustment	0 3			CT-6EW	_
	0 0			€ CT-6ER	_
	0 0	CT-6ETV Ammo pack type		CT-6EV	_
	0 0 3 †		CT-6EMS	CT-6ES	The pin length of CT-6EMS is different from CT-6ES.
Side adjustment	③ ○ ○ ① ○ ○ ↑			CT-6EX	_
(† Adjustment direction)	0 0 0 1	CT-6ETH Ammo pack type		CT-6EH	The pin length of CT-6ETH is different from CT-6EH.
	① ③ ② •			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 $\ensuremath{ \widehat{ \Theta}}$ 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

	000 0 (4 +)	
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	[∆ R/R ≤ 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	$[\Delta R/R \le 3 \%]$ [S.S. \le 1 \%]	
Low temp. operation	−55 °C, 2 h	$\begin{bmatrix} \triangle R/R \le 2 \% \\ [S.S. \le 2 \%] \end{bmatrix}$	
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 \pm 3 °C $_{\sim}$ 5 - 6 s, two times maximum Manual soldering: 380 \pm 10 °C, 3 ~ 4 s	[∆ R/R ≦ 1 %]	

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

■ MAXIMUM INPUT RATINGS

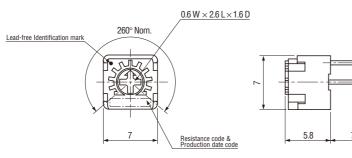
lominal resistance values (Ω)	Resistance code	Maximum input voltage (V)	Maximum wiper current (mA)
→ 10→ 20	100	1.00	100
→ 20	200	2.00	100
50	500	5.00	100
100	101	7.07	70.7
200	201	10.0	50.0
500	501	15.8	31.6
1 k	102	22.4	22.4
2 k	202	31.6	15.8
5 k	502	50.0	10.0
10 k	103	70.7	7.07
20 k	203	100	5.00
50 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

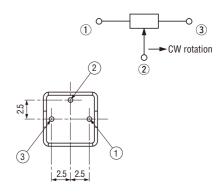
The products indicated by nark are manufactured upon receipt of order basis.

OUTLINE DIMENSIONS

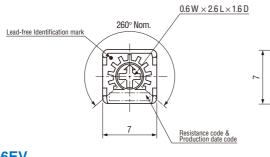
Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)

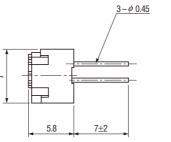
CT-6EPTop adjustment





CT-6EWTop adjustment



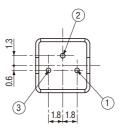


 $3 - \phi \ 0.45$

 $3 - \phi \ 0.45$

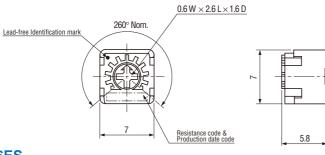
13.5±2

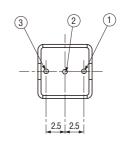
16±2



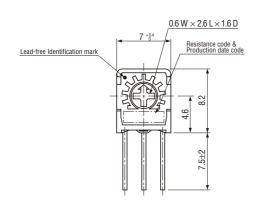
CT-6EVTop adjustment

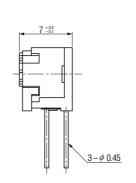
★Pin pitch in W type is different from P type.

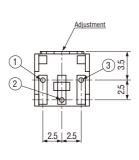




CT-6ESSide adjustment

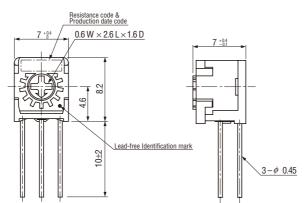




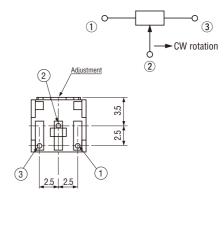


OUTLINE DIMENSIONS

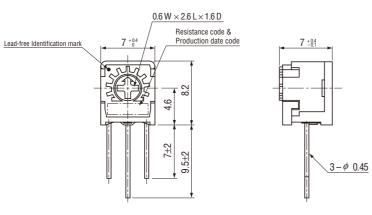
CT-6EXSide adjustment

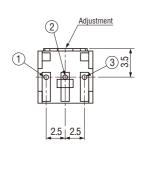


Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)

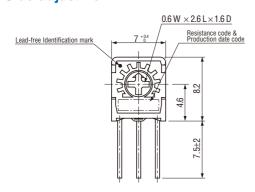


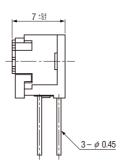
CT-6EHSide adjustment

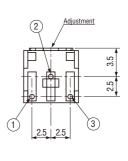




CT-6ENSide adjustment





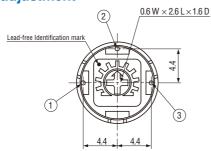


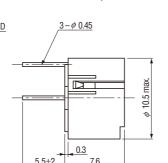
★Terminals ① & ③ position in N type is different from X type.

■ OUTLINE DIMENSIONS

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

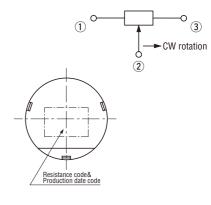
CT-6EFRear adjustment



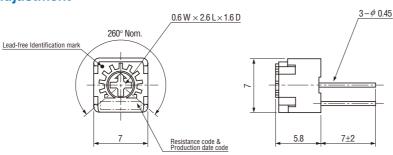


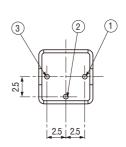
<Semi-standard products>

<Semi-standard products>



CT-6ERTop adjustment





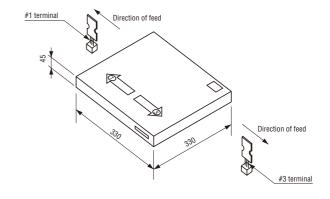
■ PACKAGING SPECIFICATIONS

<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.).



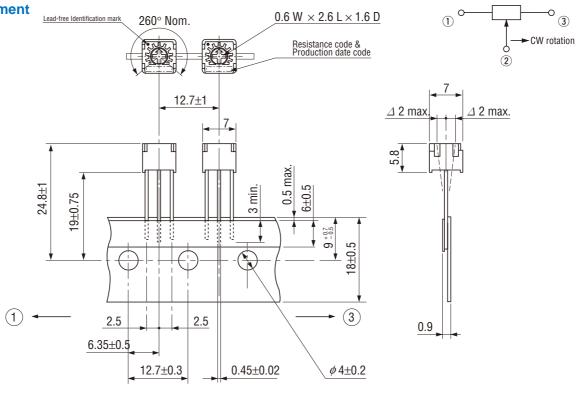
つづら折り Ammo pack type



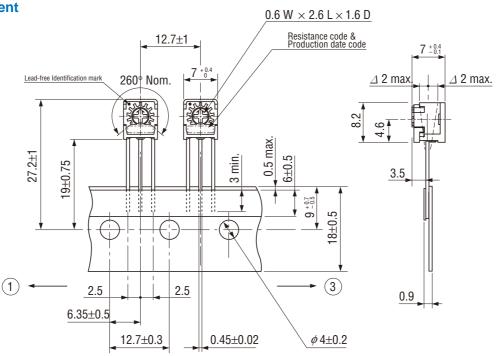
Ammo Pack

- 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-6ETV Top adjustment Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)

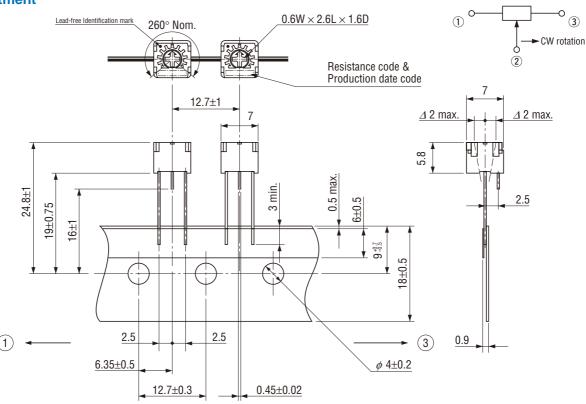


CT-6ETH Side adjustment



CT-6ETPTop adjustment

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

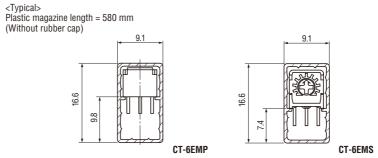


<Magazine packaging specifications>

- 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.

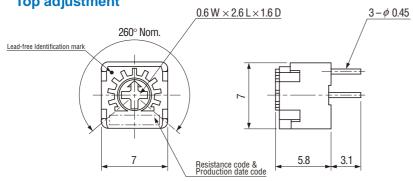


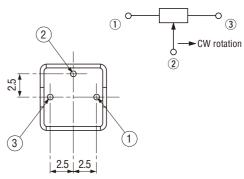
Plastic magazine type



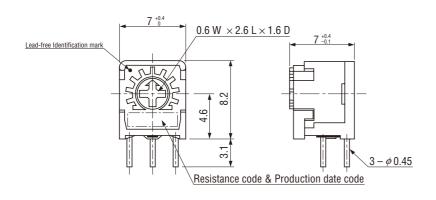
CT-6EMPTop adjustment

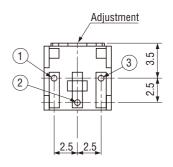
Unless otherwise specified, tolerance: $\pm\,0.3$ (Unit: mm)





CT-6EMS Side adjustment





<Bulk pack specifications>

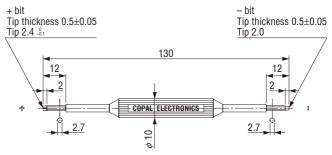
- Unit of bulk pack in a plastic bag is 50 pcs. per pack.
- Boxing of bulk in a plastic bag is performed with 200 pcs. (CT-6EF is 100 pcs.) per box.

■ ADJUSTMENT TOOL, MODEL TA-64

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

- 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	



Material: Polyoxymethylene

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