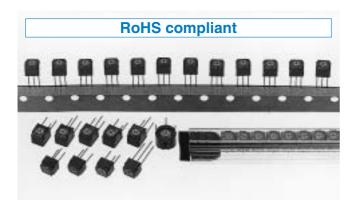
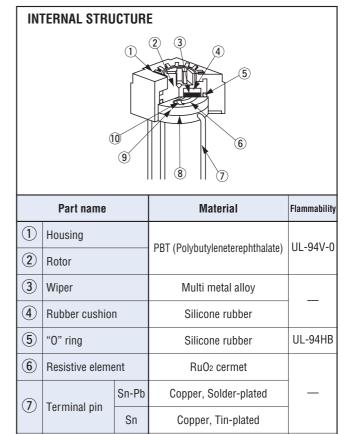
SINGLE TURN CERMET TRIMMERS

CT-6



■ FEATURES

- Lead-free soldering, Cadmium-free
- Various configurations to choose from
- Wide variety (14 types)
- "O" ring sealed and washable



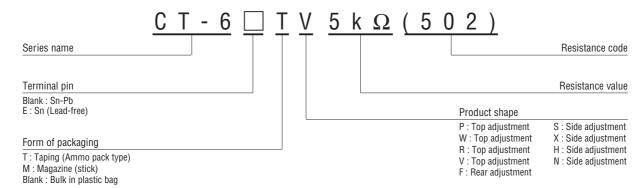
CFCs, Halon, Carbon tetrachloride and designated bromic flame retardant PBBOs and PBBs are not used in our products.

Ероху

Ceramic

Ag-Pd cermet

■ PART NUMBER DESIGNATION



(8)

(9)

10

Adhesive

Electrode

Base element

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

UL-94V-0

■ LIST OF PART NUMBERS

	Form of packaging							
Adjustment position	Shape of terminal (Top view)	Taping		Magazine (stick)		Plastic bag		Remarks
position		Sn-Pb	Sn (Lead-free)	Sn-Pb	Sn (Lead-free)	Sn-Pb	Sn (Lead-free)	
Top adjustment	0 3	CT-6TP Ammo pack type	CT-6ETP Ammo pack type	CT-6MP	CT-6EMP	CT-6P	CT-6EP	The pin length of CT-6TP & CT-6MP is different from CT-6P.
	© 					CT-6W	CT-6EW	_
	0 0					€ CT-6R	€ CT-6ER	_
	0 3	CT-6TV Ammo pack type	CT-6ETV Ammo pack type			CT-6V	CT-6EV	_
	© 0 3 +			CT-6MS	CT-6EMS	CT-6S	CT-6ES	The pin length of CT-6MS is different from CT-6S.
Side adjustment	® <u> </u>					CT-6X	CT-6EX	_
direction)	② ① · · · ③ †	CT-6TH Ammo pack type	CT-6ETH Ammo pack type			CT-6H	CT-6EH	The pin length of CT-6TH is different from CT-6H.
	① ③ ② †					CT-6N	CT-6EN	_
Rear adjustment	10003					→ CT-6F	€ CT-6EF	_
Pieces in package		1000 pc	s./taping	75 pcs	s./stick	50 pcs	s./pack	_

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).
- $\mbox{\em \#}$ 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 (B)	
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-6P, W, R, V, EP, EW, ER, EV) Approx. 0.65 g (CT-6S, X, H, N, ES, EX, EH, EN) Approx. 0.92 g (CT-6F, EF)	

■ 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	Sn-Pb : 235 °C, 2 s Sn (Lead-free) : 245 ± 3 °C, 2 ~ 3 s		

{ }: Reference only

■ ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions	Specifications	
Thermal shock $-65 \sim 125$ °C (0.5 h), 5 cycles		[∆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		[AD/D < 4.0/]	
Vibration	Amplitude 1.52 mm or Acceleration 196 m/s², 10 ~ 2000 Hz, 3 directions, 12 times each	[∆R/R ≦ 1 %] [S.S. ≦ 1 %]	
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	$[\Delta R/R \le 2 \%]$ [S.S. \le 2 \%]	
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	Sn-Pb : 350 °C, 3 s Sn Flow : 260 \pm 3 °C, 5 \sim 6 s, two times maximum Manual soldering : 380 \pm 10 °C, 3 \sim 4 s	[∆R/R ≦ 1 %]	

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

■ MAXIMUM INPUT RATINGS

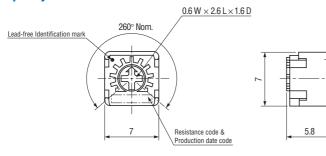
Nominal resistance values (Ω)	Resistance code	Maximum input voltage (V)	Maximum wiper current (mA)
 → 10 → 20 50 100 200 500 	100	1.00	100
	200	2.00	100
	500	5.00	100
	101	7.07	70.7
	201	10.0	50.0
	501	15.8	31.6
1 k	102	22.4	22.4
2 k	202	31.6	15.8
5 k	502	50.0	10.0
10 k	103	70.7	7.07
20 k	203	100	5.00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

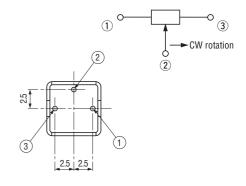
The products indicated by ightharpoonup mark are

OUTLINE DIMENSIONS

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

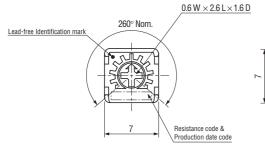
CT-6P, CT-6EP Top adjustment

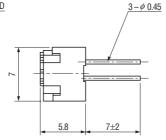




★ Pin pitch in W type is different from P type.

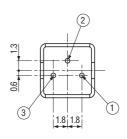
CT-6W, CT-6EW Top adjustment



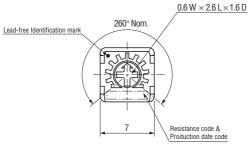


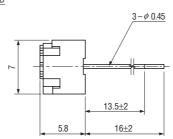
7±2

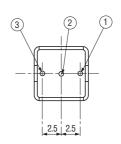
 $3 - \phi \ 0.45$



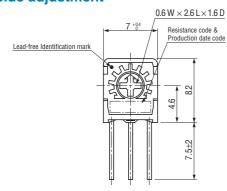


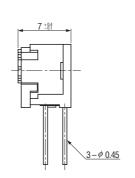


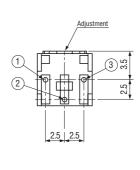




CT-6S, CT-6ES Side adjustment

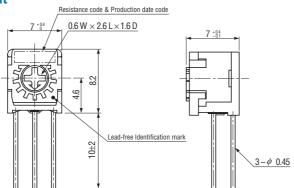




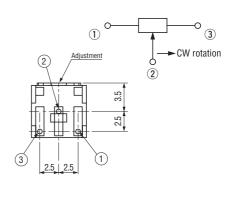


OUTLINE DIMENSIONS

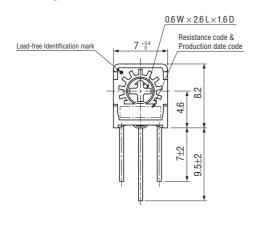
CT-6X, CT-6EXSide adjustment

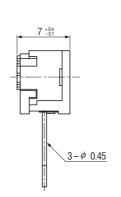


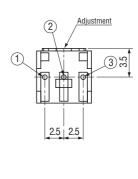
Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)



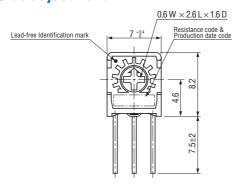
CT-6H, CT-6EHSide adjustment

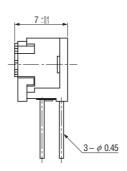


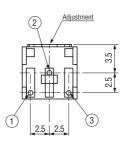




CT-6N, CT-6EN Side adjustment







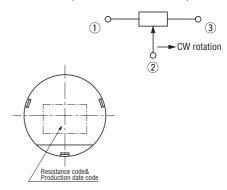
★ Terminals ① & ③ position in N type is different from X type.

OUTLINE DIMENSIONS

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

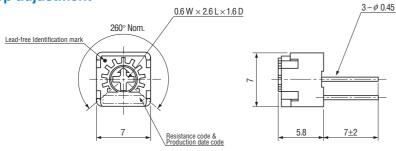
CT-6F, CT-6EF
Rear adjustment

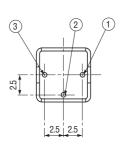
2
0.6W×2.6L×1.6D
3-\$\phi\$0.45



CT-6R, CT-6ERTop adjustment

<Semi-standard products>





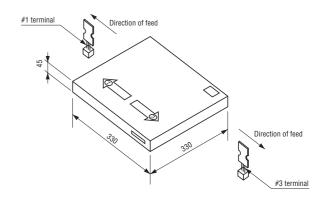
■ PACKAGING SPECIFICATIONS

<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 TV, ETV : Approx. 840 g

TH, ETH: Approx. 930 g TP, ETP: Approx. 850 g

CT-6TV, CT-6ETV Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm) Top adjustment • (1) $0.6 \text{ W} \times 2.6 \text{ L} \times 1.6 \text{ D}$ Lead-free Identification mark 260° Nom. CW rotation Resistance code & Production date code 2 12.7±1 ⊿ 2 max. Δ 2 max 0.5 max. 24.8±1 6 ± 0.5 3 min. 19±0.75 Î (3) (1) 2.5 2.5 0.9 6.35±0.5 0.45±0.02 12.7±0.3 ϕ 4±0.2 • CT-6TH, CT-6ETH $0.6~W\times2.6~L\times1.6~D$ Side adjustment Resistance code & Production date code 12.7±1 7 + 0.4 <u>⊿</u> 2 max Lead-free Identification mark ∠ 2 max. 260 Nom. 0.5 max. 27.2±1 6 ± 0.5 3 min. 19±0.75 3.5 $9^{+0.7}_{-0.5}$ 18±0.5

0.45±0.02

(1)

2.5

6.35±0.5

2.5

12.7±0.3

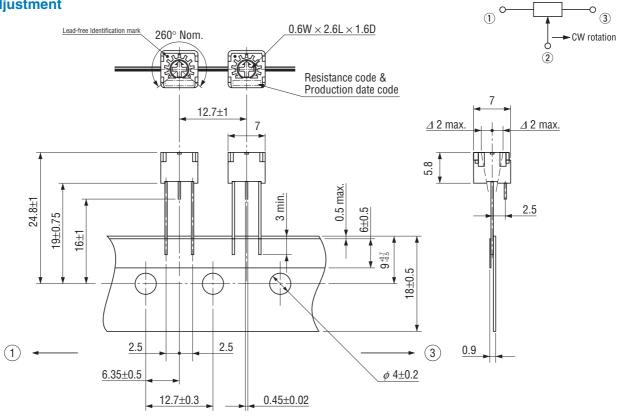
(3)

 ϕ 4±0.2

0.9

CT-6TP, CT-6ETP Top adjustment

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

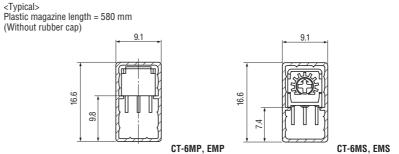


<Magazine packaging specifications>

- 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.

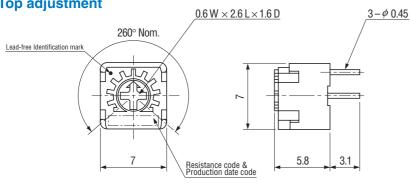


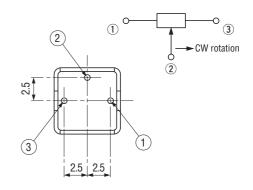
Plastic magazine type



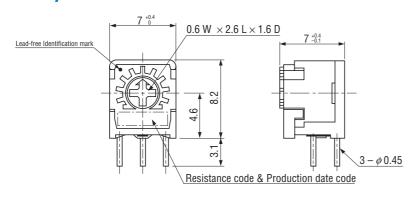
CT-6MP, CT-6EMP Top adjustment

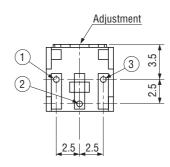
Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)





CT-6MS, CT-6EMS Side adjustment





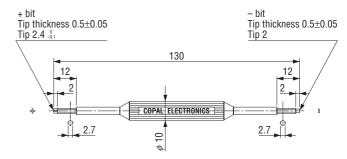
<Bulk pack specifications>

- 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-6F, 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		



Material: POM (Polyoxymethylene)

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