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SINGLE TURN CERMET TRIMMERS



FEATURES

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



СТ-6

	Part name		Material	Flammability
1	Housing		PBT	
2	Rotor		(Polybutyleneterephthalate)	UL-94V-0
3	Wiper		Multi metal alloy	
4	Rubber cushior	l	Silicone rubber	
5	"O" ring		Silicone rubber	UL-94HB
6	Resistive eleme	ent	RuO ₂ cermet	
	Terminal nin	Sn-Pb	Copper, Solder-plated	
\cup	reminai pin	Sn	Copper, Tin-plated	
8	Adhesive		Ероху	UL-94V-0
9	Base element		Ceramic	
10	Electrode		Ag-Pd cermet	

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

PART NUMBER DESIGNATION 6 5 Т -V kΩ 5 2 С Τ 0 Series name Resistance code Terminal pin Resistance value Blank : Sn-Pb 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 vinyl bags

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





		Form of packaging						
Adjustment position	Shape of terminal (Top view)	Taping Magazine (stick)			Vinyl bag		Remarks	
		Sn-Pb	Sn (Lead-free)	Sn-Pb	Sn (Lead-free)	Sn-Pb	Sn (Lead-free)	
		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.
Top adjustment	0.03					CT-6W	CT-6EW	_
	03					€ CT-6R	€) CT-6ER	_
	0003	CT-6TV Ammo pack type	CT-6ETV Ammo pack type			CT-6V	CT-6EV	_
	@			CT-6MS	CT-6EMS	CT-6S	CT-6ES	The pin length of CT-6MS is different from CT-6S.
Side adjustment († Adjustment direction)	® <mark>○ ○</mark> 0 ○ +					CT-6X	CT-6EX	_
	2 0 ் ் 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.
	0 3 2 +					CT-6N	CT-6EN	_
Rear adjustment						€ CT-6F	€ CT-6EF	_
Pieces in packag	je	1000 pc	s./taping	75 pcs	s./stick	50 pcs	s./pack	_

LIST OF PART NUMBERS

☑ : Not manufactured

The products indicated by $\textcircled{\baselinetwidth}$ mark are manufactured upon receipt of order basis.

<nominal< th=""><th>resistance</th><th>e values></th><th></th><th></th><th>Fig. 1</th></nominal<>	resistance	e values>			Fig. 1
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 MΩ	2 MΩ	

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

 $\ensuremath{\circledast}$: 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.

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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 $\Omega,$ whichever is greater		
C.R.V.	1 % or 3 $\Omega,$ whichever is greater		
Operating temp. range	−55 ~ 120 °C		
Temp. coefficient	$10~\Omega$ ~ 20 Ω : \pm 250 $10^{\rm 6}/^\circ\text{C}$ maximum 50 Ω ~ 2 $M\Omega$: \pm 100 $10^{\rm 6}/^\circ\text{C}$ maximum		
Insulation resistance	1000 M Ω 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 ~ 125 °C (0.5 h), 5 cycles	$\begin{bmatrix} \Delta \text{ R/R} \leq 1 \% \end{bmatrix}$ $[\text{S.S.} \leq 1 \%]$
Humidity	-10 ~ 65 °C (Relative humidity 80 ~ 98 %), 10 cycles, 240 h	$[\Delta \text{ R/R} \leq 2 \%]$
Shock	981 m/s², 6 ms 6 directions for 3 times each	
Vibration	Amplitude 1.52 mm or Acceleration 196 m/s², 10 ~ 2000 Hz, 3 directions, 12 times each	$\begin{bmatrix} \Delta R/R \cong 1\% \end{bmatrix}$ $[S.S. \le 1\%]$
Load life	70 °C, 0.5 W, 1000 h	$\begin{bmatrix} \Delta \text{ R/R} \leq 3 \% \end{bmatrix}$ $[\text{S.S.} \leq 1 \%]$
Low temp. operation	−55 °C, 2 h	$\begin{bmatrix} \Delta \text{ R/R} \leq 2 \% \end{bmatrix}$ $[\text{S.S.} \leq 2 \%]$
High temp. exposure	120 °C, 250 h	$\begin{bmatrix} \Delta \text{ R/R} \leq 3 \% \end{bmatrix}$ $[\text{S.S.} \leq 2 \%]$
Immersion seal	85 °C, 60 s	No leaks (No continuous bubbles)
Soldering heat	Sn-Pb : 350 °C, 3 s Sn 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

Nominal resistance values (Ω)	Resistance code	Maximum input voltage (V)	Maximum wiper current (mA)
→ 10	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 () mark are manufactured upon receipt of order basis.











OUTLINE DIMENSIONS Unless otherwise specified, tolerance: ± 0.3 (Unit: mm) • CT-6X, CT-6EX -0 3 0 1 Side adjustment CW rotation Resistance code & Production date code (2) Adjustment $0.6 \text{ W} \times 2.6 \text{ L} \times 1.6 \text{ D}$ (2) 7 +0.4 3.5 5 2.5 4.6 (1)3 Lead-free Identification mark 10±2 <u>3-00.45</u> • CT-6H, CT-6EH Side adjustment $0.6\,W\times2.6\,L\times1.6\,D$ Resistance code & Production date code Adjustment (2) Lead-free Identification mar $7^{+0.4}_{-0.1}$ (1)3.5 8.2 4.6 2.5 2.5 7±2 9.5 ± 2 $3 - \phi 0.45$ • CT-6N, CT-6EN Side adjustment $0.6\,W\times 2.6\,L\!\times\!1.6\,D$ Adjustment Resistance code & Production date code (2) 7 ±84 Lead-free Identification mark 3.5 8.2 2.5 4.6 3 1 2.5 2.5 7.5±2 3- Ø 0.45

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







■ 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.).







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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











<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







Material : Polybutyleneterephthalate

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

TM-7

