COMPLIANT





1/4" Multi-Turn Fully Sealed Container Cermet Trimmer



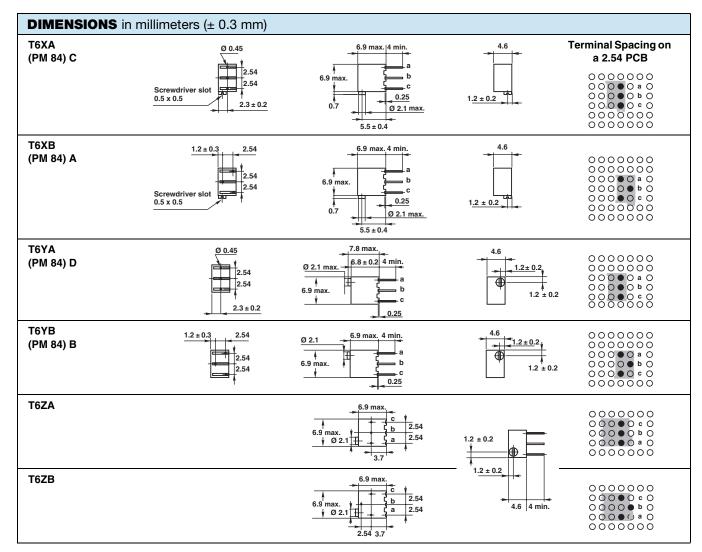
Due to their square shape and small size (6.8 mm \times 6.8 mm \times 5 mm), the multi-turn trimmers of the T6 series are ideally suited for PCB use, enabling high density board mounting with reduced space requirement between cards.

Six versions are available differing by the top or side position of the adjustment screw and by PC pins configuration.

The use of cermet for the resistive track ensures an excellent stability of nominal specifications throughout life.

FEATURES

- · Military and professional grade
- 0.25 W at 70 °C
- Product qualification according to CECC 41100-005 (A, B, C, D)
- Equivalent to MIL-R-22097 (RJ26)
- · Low contact resistance variation 1 % typical
- Fully sealed
- Wide range of ohmic values from 10 Ω to 2.2 M Ω
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912





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ELECTRICAL SPECIFICATIONS					
Resistive element	Cermet				
Electrical travel	14 turns ± 2				
Resistance range	10 Ω to 2.2 MΩ				
Standard series E3	1 - 2.2 - 4.7 and on request 1 - 2 - 5				
Tolerance Standard	10 %				
On request	5 %				
Linear	0.25 W at +70 °C				
Power rating	0.25 M I I I I I I I I I I I I I I I I I I				
Circuit diagram	$ \begin{array}{c} \overset{a}{\circ} \longrightarrow & & \overset{c}{\circ} \\ (1) & \overset{b}{\circ} \longrightarrow & cw \\ (2) & & & & & \\ \end{array} $				
Temperature coefficient	See Standard Resistance Element table				
Limiting element voltage (linear law)	250 V				
Contact resistance variation	2 % Rn or 2 Ω				
End resistance (typical)	1 Ω				
Dielectric strength (RMS)	1000 V				
Insulation resistance (500 V _{DC})	$10^6\mathrm{M}\Omega$				

MECHANICAL SPECIFICATIONS				
Mechanical travel	15 turns ± 5			
Operating torque (max. Ncm)	1			
End stop torque	Clutch action			
Net weight (max. g)	0.5			
Wiper (actual travel)	Positioned at approx. 50 %			
Terminals	Pure Sn (code e3)			

ENVIRONMENTAL SPECIFICATIONS				
Temperature range	-55 °C to +155 °C			
Climatic category	55/125/56			
Sealing	Fully sealed - IP67			

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PERFORMANCES							
CECC 41100		REQUIREMENTS			TYPICAL VALUES AND DRIFTS		
TESTS	CONDITIONS	ΔR _T /R _T (%)	ΔR ₁₋₂ /R ₁₋₂ (%)	OTHER	ΔR _T /R _T (%)	ΔR ₁₋₂ /R ₁₋₂ (%)	OTHER
Electrical endurance	1000 h at rated power 90'/30' - ambient temp. 70 °C	± 2 %	± 4 %	Contact res. variation: < 3 % Rn	± 1 %	± 2 %	Contact res. variation: < 1 % Rn
Climatic sequence	Phase A dry heat 125 °C Phase B damp heat Phase C cold -55 °C Phase D damp heat 5 cycles	±2%	± 3 %	-	± 0.5 %	± 1 %	-
Damp heat steady state	56 days 40 °C, 93 % RH	± 2 %	± 3 %	Dielectric strength: $> 250 \text{ V}$ Insulation resistance: $> 100 \text{ M}\Omega$	± 0.5 %	± 1 %	Dielectric strength: $> 1000 \text{ V}$ Insulation resistance: $> 10^4 \text{ M}\Omega$
Mechanical endurance	200 cycles	± 2 %	-	Contact res. variation: < 3 % Rn	± (2 % + 3 Ω)	ı	Contact res. variation: < 1 % Rn
Change of temperature	5 cycles -55 °C to +125 °C	± 1.5 %	-	$\begin{array}{l} \Delta V_{1-2}/V_{1-3} \\ \leq \pm \ 1 \ \% \end{array}$	± 0.5 %	-	$\Delta V_{1-2}/V_{1-3}$ < ± 1 %
Shock	50 g at 11 ms 3 successive shocks in 3 directions	±1%	± 2 %	-	± 0.1 %	± 0.2 %	-
Vibration	10 Hz to 55 Hz 0.75 mm or 10 <i>g</i> during 6 h	±1%	-	ΔV ₁₋₂ /V ₁₋₃ ± 2 %	± 0.1 %	-	$\Delta V_{1-2}/V_{1-3} < \pm 0.2 \%$

Note

• Nothing stated herein shall be construed as a guarantee of quality or durability.

STANDARD RESISTANCE ELEMENT DATA				
STANDARD		TYPICAL		
RESISTANCE VALUES	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	TCR -55 °C +125 °C
Ω	W	V	mA	ppm/°C
10	0.25	1.58	158	
22	0.25	2.34	107	
47	0.25	3.53	73	
100	0.25	5	50	
220	0.25	7.42	34	
470	0.25	10.8	23	
1K	0.25	15.8	15.8	
2.2K	0.25	23.4	10.7	
4.7K	0.25	34.3	7.3	± 100
10K	0.25	50	5	
22K	0.25	74.2	3.37	
47K	0.25	108.4	2.31	
100K	0.25	158	1.58	
220K	0.25	235	1.07	
470K	0.13	250	0.53	
1M	0.063	250	0.25	
2.2M	0.028	250	0.11	

MARKING

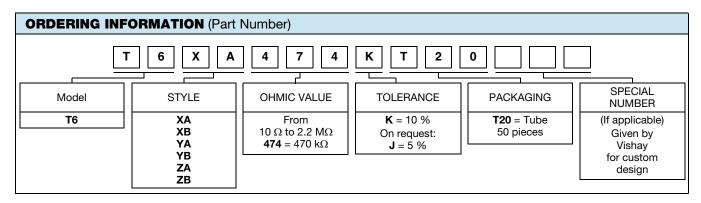
- Vishay trademark
- Model
- Style
- Ohmic value (in Ω , $k\Omega$, $M\Omega$)
- Tolerance (in %)
- Manufacturing date
- Marking of terminal C

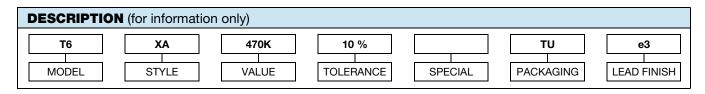
PACKAGING

• In tube of 50 pieces code T20 (TU50)



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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