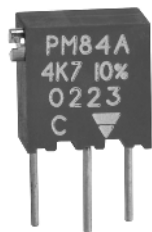


1/4" Multi-Turn Fully Sealed Container Cermet Trimmers



Due to their square shape and small size (6.8 x 6.8 x 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.

Four 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.

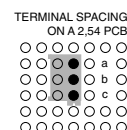
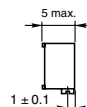
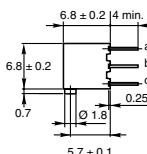
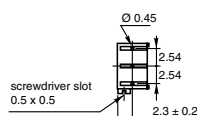
FEATURES

- Military and Professional Grade
- 0.25 Watt at 85 °C
- CECC 41 100-005 (A, B, C, D)
- Equivalent to MIL-R-22097 (RJ26)
- GAM T1
- Space saving
- 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 41 100

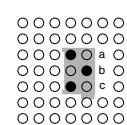
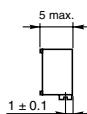
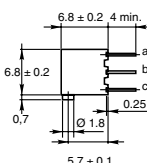
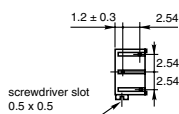


DIMENSIONS in millimeters

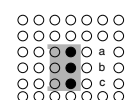
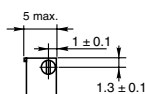
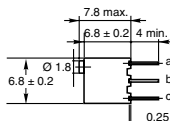
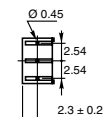
T6XA (PM 84) C



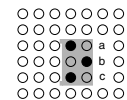
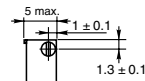
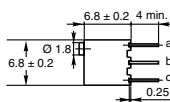
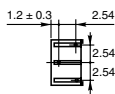
T6XB (PM 84) A



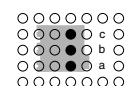
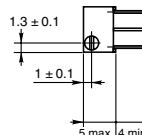
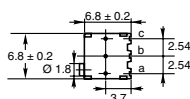
T6YA (PM 84) D



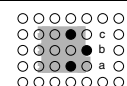
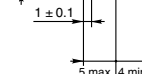
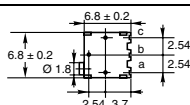
T6YB (PM 84) B



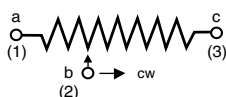
T6ZA



T6ZB



CIRCUIT DIAGRAM



Tolerance unless otherwise specified ± 0.5

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

Vishay Sfernice

Undergoes European Quality Assurance System (CECC)

ELECTRICAL SPECIFICATIONS

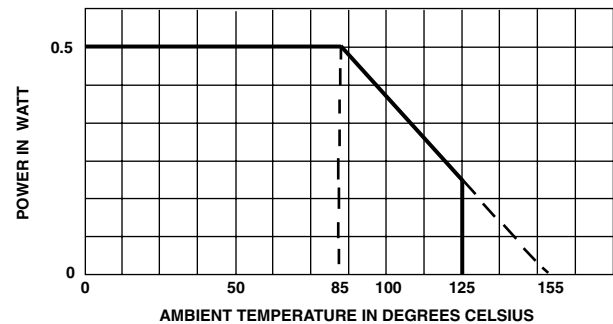
Resistive Element	cermet
Electrical Travel	13 turns $\pm$ 2
Resistance Range	10 Ω to 2.2 M Ω
Standard series E3 and Series	1 - 2.2 - 4.7 and on request 1 - 2 - 5
Tolerance	Standard $\pm$ 10 % On Request $\pm$ 5 %
Power Rating Linear	0.25 W at + 85 °C
Temperature Coefficient	See Standard Resistance Element Table
Limiting Element Voltage (Linear Law)	250 V
Contact Resistance Variation	2 % R _n or 2 Ω
End Resistance (Typical)	1 Ω
Dielectric Strength (RMS)	1000 V
Insulation Resistance (500VDC)	10 ⁶ M Ω

MECHANICAL SPECIFICATIONS

Mechanical Travel	15 turns
Operating Torque (max. Ncm)	1
End Stop Torque	clutch action
Unit Weight (max. g)	0.5
Wiper (actual travel)	positioned at approx. 50 %

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	- 55 °C to + 155 °C
Climatic Category	55/125/56
Sealing	fully sealed container IP67

POWER RATING CHART**PERFORMANCE**

CECC 41100					TYPICAL VALUES AND DRIFTS	
TESTS	CONDITIONS	$\frac{\Delta R_T}{R_T}$ (%)	REQUIREMENTS	$\frac{\Delta R_{1-2}}{R_{1-2}}$ (%)	$\frac{\Delta R_T}{R_T}$ (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$ (%)
Climatic Sequence	Phase A dry heat 125 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	$\pm$ 2 %		$\pm$ 3 %	$\pm$ 0.5 %	$\pm$ 1 %
Long Term Damp Heat	56 days 40 °C 93 % RH	$\pm$ 2 %	Dielectric strength: 250 V Insulation resistance: > 100 M Ω	$\pm$ 3 %	$\pm$ 0.5 %	$\pm$ 1 %
Rotational Life	200 cycles	$\pm$ 2 %	Contact res. variation: < 3 % R _n		$\pm$ 2 %	Contact res. variation: < 1 % R _n
Load Life	1000 h at rated power 90°/30° - ambient temp. 85 °C	$\pm$ 2 %	Contact res. variation: < 3 % R _n	$\pm$ 4 %	$\pm$ 1 %	$\pm$ 2 %
Rapid Temperature Change	5 cycles - 55 °C to + 125 °C	$\pm$ 1.5 %	$\frac{\Delta V_{1-2}}{V_{1-3}}$	$\pm$ 1 %	$\pm$ 0.5 %	$\frac{\Delta V_{1-2}}{V_{1-3}}$ < $\pm$ 1 %
Shocks	50 g at 11 m secs 3 successive shocks in 3 directions	$\pm$ 1 %		$\pm$ 2 %	$\pm$ 0.1 %	$\pm$ 0.2 %
Vibrations	10 - 55 Hz 0.75 mm or 10 g during 6 hours	$\pm$ 1 %	$\frac{\Delta V_{1-2}}{V_{1-3}}$	$\pm$ 2 %	$\pm$ 0.1 %	$\frac{\Delta V_{1-2}}{V_{1-3}}$ < $\pm$ 0.2 %

STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR LAW			T.C. - 55 °C + 125 °C
	MAX. POWER AT 85 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	
Ω	W	V	mA	ppm/°C
10	0.25	1.58	158	0
22	↓	2.34	107	+ 200
47		3.53	73	
100		5	50	
220		7.42	34	
470		10.8	23	
1 k		15.8	15.8	
2.2 k		23.4	10.7	
4.7 k		34.3	7.3	
10 k		50	5	
22 k		74.2	3.37	
47 k		108.4	2.31	
100 k	↓	158	1.58	± 100
220 k		234	0.97	
470 k		250	0.53	
1 M		250	0.25	
2.2 M		250	0.11	

MARKING

Printed:

- VISHAY trademark
- model
- style
- ohmic value (in Ω , k Ω , M Ω)
- tolerance (in %)
- manufacturing date
- marking of terminal c

PACKAGING

- In magazine pack (tube) by 50 pieces code "TU50".

ORDERING INFORMATION

T6 MODEL	XA VERSION	470 kΩ OHMIC VALUE	± 10 % TOLERANCE	TU50 PACKAGING	e3 LEAD FINISH
				TU50: Tube	e3: pure Sn

SAP PART NUMBERING GUIDELINES

T	6	X	A	4	7	4	K	T	2	0			
MODEL		STYLE		OHMIC VALUE			TOL	PACKAGING CODE			SPECIAL (IF APPLICABLE)		

See the end of this data book for conversion tables



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