

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



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 MΩ
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



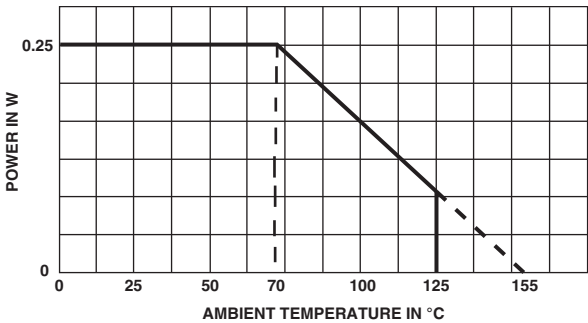
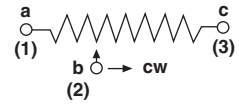
RoHS
COMPLIANT

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

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.

DIMENSIONS in millimeters (± 0.3 mm)				
T6XA (PM 84) C				Terminal Spacing on a 2.54 PCB
T6XB (PM 84) A				
T6YA (PM 84) D				
T6YB (PM 84) B				
T6ZA				
T6ZB				

ELECTRICAL SPECIFICATIONS		
Resistive element	Cermet	
Electrical travel	14 turns \pm 2	
Resistance range	10 Ω to 2.2 M Ω	
Standard series E3	1 - 2.2 - 4.7 and on request 1 - 2 - 5	
Tolerance	Standard	10 %
	On request	5 %
Power rating	Linear	0.25 W at +70 °C
		
Circuit diagram		
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 (500 V _{DC})	10 ⁶ M Ω	

MECHANICAL SPECIFICATIONS	
Mechanical travel	15 turns \pm 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



PERFORMANCES							
CECC 41100		REQUIREMENTS			TYPICAL VALUES AND DRIFTS		
TESTS	CONDITIONS	$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)	OTHER	$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)	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 V Insulation resistance: > 100 MΩ	± 0.5 %	± 1 %	Dielectric strength: > 1000 V Insulation resistance: > 10 ⁴ MΩ
Mechanical endurance	200 cycles	± 2 %	-	Contact res. variation: < 3 % Rn	± (2 % + 3 Ω)	-	Contact res. variation: < 1 % Rn
Change of temperature	5 cycles -55 °C to +125 °C	± 1.5 %	-	$\Delta V_{1-2}/V_{1-3}$ ≤ ± 1 %	± 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 g during 6 h	± 1 %	-	$\Delta V_{1-2}/V_{1-3}$ ± 2 %	± 0.1 %	-	$\Delta V_{1-2}/V_{1-3}$ < ± 0.2 %

Note

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

STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR LAW			TYPICAL TCR -55 °C +125 °C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	
Ω	W	V	mA	ppm/°C
10	0.25	1.58	158	± 100
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	
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
<ul style="list-style-type: none"> • Vishay trademark • Model • Style • Ohmic value (in Ω, kΩ, MΩ) • Tolerance (in %) • Manufacturing date • Marking of terminal C

PACKAGING
<ul style="list-style-type: none"> • In tube of 50 pieces code T20 (TU50)



ORDERING INFORMATION (Part Number)												
T	6	X	A	4	7	4	K	T	2	0		
Model	STYLE		OHMIC VALUE			TOLERANCE		PACKAGING		SPECIAL NUMBER		
T6	XA XB YA YB ZA ZB		From 10 Ω to 2.2 MΩ 474 = 470 kΩ			K = 10 % On request: J = 5 %		T20 = Tube 50 pieces		(If applicable) Given by Vishay for custom design		

DESCRIPTION (for information only)						
T6	XA	470K	10 %		TU	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



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Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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