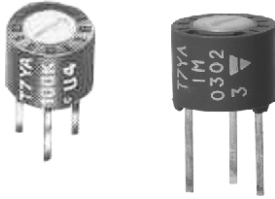


7 mm Diameter Miniature Cermet Trimmer



A dust sealed plastic case protecting a quality cermet track guarantees high performance and proven reliability. Adjustments are made easier by the clear scale readings. T7 is ideally suited to all industrial applications.

FEATURES

- Industrial grade
- 0.5 W at 70 °C
- Tests according to CECC 41100 or IEC 60393-1
- Low temperature coefficient (100 ppm/K typical)
- Wide resistance range (10 Ω to 2.2 MΩ)
- Easy to read scale
- 7 mm (0.275") diameter
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

DIMENSIONS in millimeters (± 0.5 mm)

T7 YA

T7 YB


ELECTRICAL SPECIFICATIONS		
Resistive element	Cermet	
Electrical travel	270° ± 15°	
Resistance range	10 Ω to 2.2 MΩ	
Standard series E3	1 - 2.2 - 4.7 and on request 1 - 2 - 5	
Tolerance standard	standard	± 20 %
	on request	± 10 %
Power rating	linear 0.5 W at 85 °C 	
Circuit diagram		
Temperature coefficient	See Standard Resistance Element Data	
Limiting element voltage (linear law)	250 V	
Contact resistance variation	3 % or 3 Ω	
End resistance (typical)	1 Ω	
Dielectric strength (RMS)	1000 V	
Insulation resistance	10 ⁶ MΩ	

MECHANICAL SPECIFICATIONS	
Mechanical travel	300° ± 5°
Operating torque (max. Ncm)	1.5
End stop torque (max. Ncm)	3
Unit weight (max. g)	0.5
Terminals	SnAg alloy (code e2)

ENVIRONMENTAL SPECIFICATIONS	
Temperature range	- 55 °C to + 125 °C
Climatic category	55/100/56
Sealing	IP64 For board cleaning, Vishay recommends testing before usage. Water immersion is forbidden. Ultrasonic may cause component damage or failure.



PERFORMANCES			
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)
Load life	1000 h at rated power 90'/30' - ambient temperature 70 °C	± 3 % Contact resistance variation: < 3 % Rn	± 4 %
Climatic sequence	Phase A dry heat 100 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	± 2 %	± 3 %
Long term damp heat	56 days	± 2 % Dielectric strength: 1000 V _{RMS} Insulation resistance: > 10 ⁴ MΩ	± 3 %
Rapid temperature change	5 cycles - 55 °C at + 125 °C	± 1 %	$\Delta V_{1-2}/\Delta V_{1-3}$ ≤ ± 2 %
Shock	50 g - 11 ms 3 successive shocks in 3 directions	± 0.5 %	± 1 %
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g during 6 h	± 0.5 %	$\Delta V_{1-2}/\Delta V_{1-3}$ ≤ ± 1 %
Rotational life	200 cycles	± 3 % Contact resistance variation: < 3 % Rn	

STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR LAW			TYPICAL TCR - 55 °C to + 125 °C
	MAX. POWER AT 85 °C	MAX. WORKING VOLTAGE	MAX. WIPER CURRENT	
Ω	W	V	mA	ppm/°C
10	0.5	2.2	224	± 100
22	0.5	3.3	150	
47	0.5	4.8	103	
100	0.5	7.0	70	
220	0.5	10.5	47	
470	0.5	15.3	32	
1K	0.5	22.4	22	
2.2K	0.5	33.2	15	
4.7K	0.5	48.5	10	
10K	0.5	70.7	7.0	
22K	0.5	105	4.8	
47K	0.5	153	3.2	
100K	0.5	224	2.2	
220K	0.28	250	1.1	
470K	0.13	250	1.53	
1M	0.06	250	0.25	
2.2M	0.028	250	0.11	

MARKING
<ul style="list-style-type: none"> • Vishay trademark • Model • YA or YB style • Ohmic value (in Ω, kΩ, MΩ) • Manufacturing date • Marking of terminal: 3



PACKAGING
<ul style="list-style-type: none"> In box of 200 pieces, code B40 On request: In tube of 50 pieces, code T20 (TU50)

ORDERING INFORMATION (part number)														
T	7	Y	A	4	7	4	M	B	4	0				
MODEL	STYLE	OHMIC VALUE		TOLERANCE		PACKAGING CODE		SPECIAL NUMBER						
T7	YA YB X	From 10 Ω to 2.2 MΩ 103 = 10K		M = 20 % On request: K = 10 %		B40 = Box 200 pieces On request: T20 = Tube 50 pieces		(If applicable) Given by Vishay for custom design						

DESCRIPTION (for information only)						
T7	YA	470K	20 %		BO	e2
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



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Material Category Policy

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.

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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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- 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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- 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.



Как с нами связаться

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