



Miniature Cermet Trimmers



The T7 trimmer is only 7 mm (0.275") in diameter and fits almost anywhere.

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

DIMENSIONS in millimeters

T7 YA



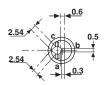




FEATURES

- Industrial grade
- 0.5 Watt at 85°C
- CECC 41100
- · High stability
- · Low temperature coefficient
- Wide resistance range
- · Easy to read scale

T7 YB

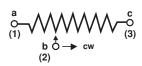






 \bullet Tolerances unless otherwise specified \pm 0.5mm

CIRCUIT DIAGRAM



Vishay Sfernice

Miniature Cermet Trimmers



ELECTRICAL SPECIFICATIONS					
Resistive Element		Cermet			
Electrical Travel		270° ± 15°			
Resistance Range		10 Ω to 2.2M Ω			
Standard Series E3		1 - 2.2 - 4.7 and on request 1 - 2 - 5			
Tolerance Standard	Standard	± 20%			
	On Request	± 10%			
Power Rating	Linear	0.5W at 85°C			
	Logarithmic	not applicable			
Temperature Coefficient		See Standard Resistance Element Data			
Limiting Element Voltage (Linear Law)		250V			
Contact Resistance Variation		3% or 3Ω			
End Resistance (Typical)		1Ω			
Dielectric Strength (RMS)		1000V			
Insulation Resistance		10 ⁶ MΩ			

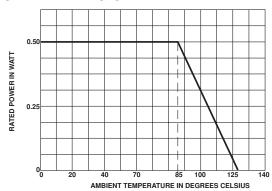
MECHANICAL SPECIFICATIONS

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Climatic Category Sealing -55° C to $+125^{\circ}$ C 55 / 100 / 56 enables cleaning except with water

IP64

POWER RATING CHART



PERFORMANCE							
		TYPICAL VALUES AND DRIFTS					
TESTS	CONDITIONS	<u>ΔRT</u> (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$ (%)				
Load Life	1000 hours at rated power 90'/30' - ambient temperature 70°C	± 3% Contact resistance variation: < 3%	± 4 % % Rn				
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	\pm 2 % Dielectric strength: 1000 V RMS Insulation resistance: > 10^4 MΩ	± 3 %				
Rapid Temperature Change	5 cycles - 55°C at + 125°C	± 1 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 2\%$				
Shock	50 g 11 ms 3 successive shocks in 3 directions	± 0.5 %	± 1%				
Vibration	10 - 55 Hz 0.75 mm or 10 g during 6 hours	± 0.5 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \le \pm \ 1\%$				
Rotational Life	200 cycles	± 3 % Contact resistance variation: < 3% Rn					

www.vishay.com 40 For technical questions, contact: sfer@vishay.com

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STANDARD RESISTANCE ELEMENT DATA							
STANDARD		T.C.					
RESISTANCE VALUES	MAX. POWER AT 85°C	MAX. WORKING VOLTAGE	MAX. CUR. THROUGH ELEMENT	–55°C +125°C			
Ω	W	V	mA	ppm/°C			
10	0.5	2.2	224				
22		3.3	150	0			
47		4.8	103	+ 200			
100		7	70				
220		10.5	47				
470		15.3	32				
1k		22.4	22				
2.2k		33.2	15				
4.7k		48.5	10				
10k	↓	70.7	7				
22k	V	105	4.8	± 100			
47k		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

Printed:

- VISHAY trademark
- series
- YA or YB style
- ohmic value (in Ω , $k\Omega$, $M\Omega$)
- manufacturing date
- marking of terminal: 3.

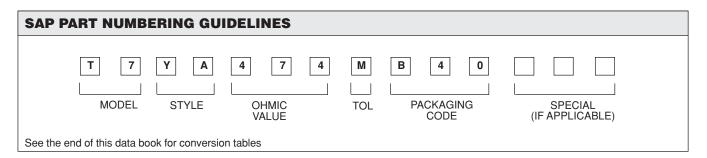
SEALING

T7 trimming potentiometers are sealed against dust and PC boards cleaning (but not with water).

PACKAGING

- In bulk (box of 200 pieces), code BO200
- On request in Tube, code TU50

ORDERING INFORMATION T7 YA 470KΩ ± 20% BO200 SERIES STYLE OHMIC VALUE TOLERANCE PACKAGING YA - YB BO200 On request: TU50



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Legal Disclaimer Notice



Vishay

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