查询T7YA470K供应商

**VISHAY** 

# 捷多邦,专业PCB打样工厂,24小时加急出货

Τ7

RoHS

COMPLIANT

**Vishay Sfernice** 

## **Miniature Cermet Trimmers**



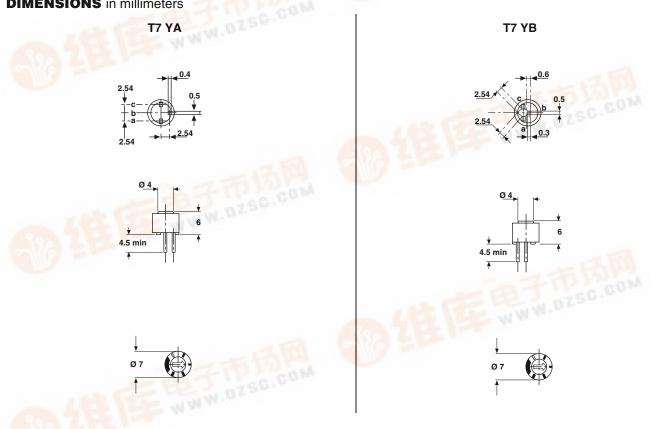
The T7 trimmer is only 7 mm (0.275") in diameter and fits almost anywhere.

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.

#### **DIMENSIONS** in millimeters

#### **FEATURES**

- Industrial grade
- 0.5 Watt at 85 °C
- Test according to CECC 41100
- Low temperature coefficient (100 ppm/K typical)
- Wide resistance range (10 Ω to 2.2 MΩ)
- · Easy to read scale



Tolerances unless otherwise specified ± 0.5 mm



**CIRCUIT DIAGRAM** 

### Miniature Cermet Trimmers



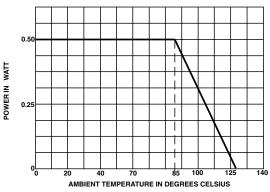
ELECTRICAL SPE	CIFICATIONS	
Resistive Element		Cermet
Electrical Travel		270° ± 15°
Resistance Range		10 Ω to 2.2 MΩ
Standard Series E3		1 - 2.2 - 4.7 and on request 1 - 2 - 5
Tolerance Standard	Standard	± 20 %
	On Request	± 10 %
Power Rating	Linear	0.5 W at 85 °C
	Logarithmic	not applicable
Temperature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

#### **MECHANICAL SPECIFICATIONS**

#### **ENVIRONMENTAL SPECIFICATIONS**

Temperature Range Climatic Category Sealing - 55 °C to + 125 °C 55/100/56 IP64

#### **POWER RATING CHART**



PERFORMANCE						
		TYPICAL VALUES AND DRIFTS				
TESTS	CONDITIONS	<u>∆RT</u> (%)	<u>∆R1-2</u> (%) R1-2			
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 <sup>4</sup> M $\Omega$	±3%			
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	±1%	$\frac{\Delta V_{1\text{-}2}}{V_{1\text{-}3}} \le \pm 2 \%$			
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 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 1 \%$			
Rotational Life	200 cycles	± 3 % Contact resistance variation: < 3 % Rn				



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T7 Vishay Sfernice

STANDARD RESISTANCE ELEMENT DATA							
STANDARD		TCR					
RESISTANCE VALUES	MAX. POWER AT 85 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	- 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		7.0	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	v	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  $\Omega\!\!,\,k\Omega\!\!,\,M\Omega\!\!$  )
- manufacturing datemarking of terminal: 3.

#### SEALING

T7 is sealed against dust (IP64).

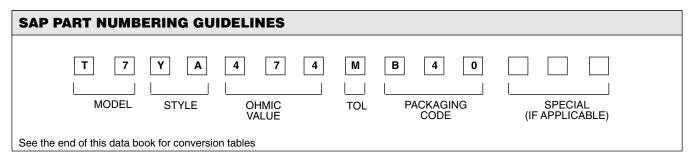
For board cleaning, Vishay recommands testing before usage. Water immersion is forbidden. Ultrasonic may cause component damage or failure.

#### PACKAGING

- In bulk (box of 200 pieces), code BO200

- On request in Tube, code TU50

ORDERING IN	FORMATION				
<b>T7</b> SERIES	<b>YA</b> STYLE	<b>470 k</b> Ω Ohmic value	± 20 % TOLERANCE	BO200 PACKAGING	e2 LEAD FINISH
	YA - YB			BO200 On request: TU50	e2: SnAg alloy





Vishay

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