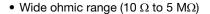


# 3/4" Rectangular Multi-Turn Cermet Trimmer



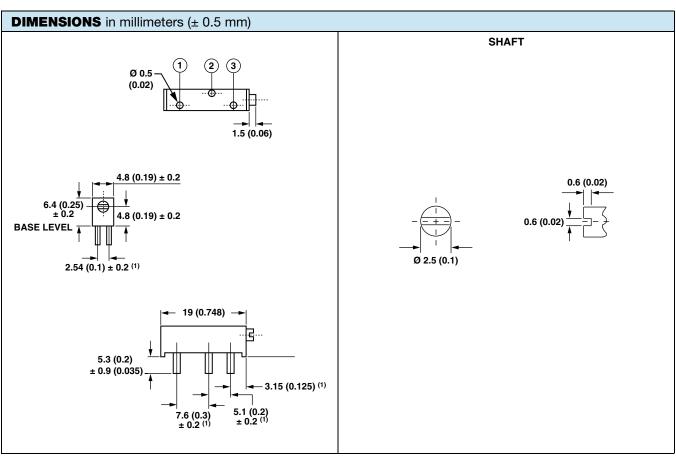
#### **FEATURES**

• 0.75 W at 70 °C





- Multi-finger wiper for better CRV
- Tests according to CECC 41000 or IEC 60393-1
- Industrial grade
- Material categorization: For definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>



Note

(1) To be measured at base level

Resistive element	Cermet				
Electrical travel	15 turns ± 1				
Resistance range	10 $\Omega$ to 5 M $\Omega$				
Standard series E3	1 - 2.2 - 4.7 and 1 - 2 - 5				
Tolerance Standard	± 10 %				
Linear	0.75 W at + 70 °C				
Power rating	0.75 0.25 0.20 40 60 70 80 100 125 140 AMBIENT TEMPERATURE IN °C				
Circuit diagram	$ \begin{array}{ccc} a & & & c \\ & & & \\ (1) & & & \\ & & $				
Temperature coefficient	See Standard Resistance Element table				
Limiting element voltage (linear law)	400 V				
Contact resistance variation	1 % Rn or 1 $\Omega$ max.				
End resistance	1 % or 2 Ω				
Dielectric strength (RMS)	1000 V				
Insulation resistance (500 V <sub>DC</sub> )	$10^3\mathrm{M}\Omega$ min.				

MECHANICAL SPECIFICATIONS				
Mechanical travel	18 turns ± 5			
Operating torque (max. Ncm)	3.5			
End stop torque	Clutch action			
Net weight (max. g)	1.2			
Wiper (actual travel)	Positioned at approx. 50 %			
Terminals	e3: Pure Sn			

ENVIRONMENTAL SPECIFICATIONS				
Temperature range	- 55 °C to + 125 °C			
Climatic category	55/125/4			
Sealing	Fully sealed - IP67			



# Vishay Sfernice

PERFORMANCES							
TESTS	CONDITIONS -	TYPICAL VALUES AND DRIFTS					
		ΔR <sub>T</sub> /R <sub>T</sub> (%)	$\Delta V_{1-2}/V_{1-3}$ (%)	OTHER			
Load life	1000 h at rated power 90'/30' - ambient temp. 70 °C	± 4 %	-	-			
Damp heat steady state	4 days	± 3 %	-	Dielectric strength: 1000 $V_{RMS}$ Insulation resistance: > 20 $M\Omega$			
Rapid temp. change	5 cycles - 55 °C to + 125 °C	± 0.5 %	± 2 %	-			
Shock	50 g at 11 ms 3 successive shocks in 3 directions	± 2 %	± 2 %	-			
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g during 6 h	± 2 %	± 2 %	-			
Rotational life	200 cycles	± (3 % + 1 Ω)	-	Contact res. variation: < 1 % Rn			

STANDARD RESISTANCE ELEMENT DATA					
STANDARD		TYPICAL			
RESISTANCE VALUES	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	TCR - 55 °C + 125 °C	
Ω	W	V	mA	ppm/°C	
10	0.75	2.74	274		
22	0.75	4.06	185		
47	0.75	5.94	126		
100	0.75	8.66	87		
220	0.75	12.8	58		
470	0.75	18.8	40		
1K	0.75	27.4	27		
2.2K	0.75	40.6	18		
4.7K	0.75	59.4	13	± 100	
10K	0.75	86.6	8.7	± 100	
22K	0.75	128	5.8		
47K	0.75	188	4.0		
100K	0.75	274	2.7		
220K	0.75	400	1.8		
470K	0.34	400	0.85		
1M	0.16	400	0.40		
2.2M	0.07	400	0.18		
4.7M	0.03	400	0.09		
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### **MARKING**

- Vishay trademark
- Vishay part number or model and ohmic value (in  $\Omega$ ,  $k\Omega$ ,  $M\Omega$ )
- Manufacturing date
- Marking of terminal 3

### **PACKAGING**

• In tube of 25 pieces code T10 (TU25)

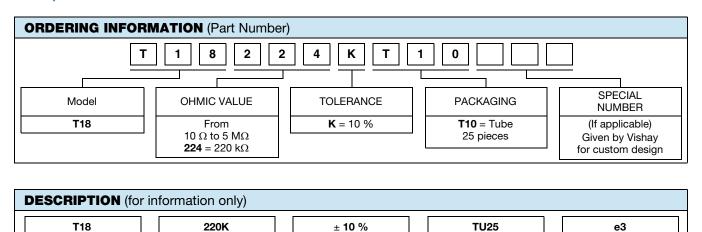


**MODEL** 

**VALUE** 

# Vishay Sfernice

LEAD FINISH



**TOLERANCE** 

**PACKAGING** 



### **Legal Disclaimer Notice**

Vishay

### **Disclaimer**

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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.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

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