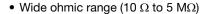


# 3/4" Rectangular Multi-Turn Cermet Trimmer



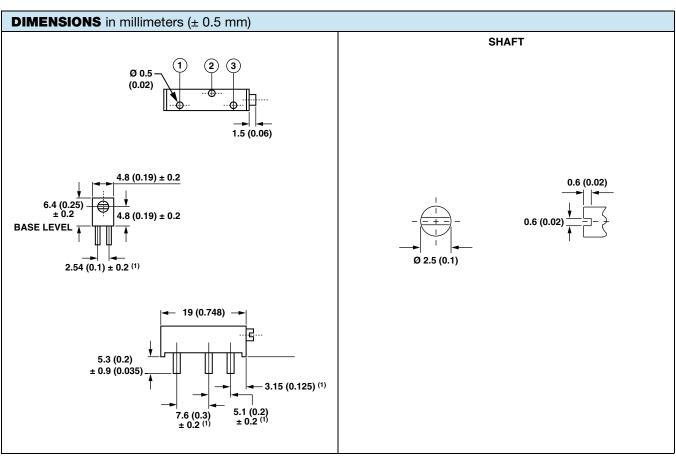
#### **FEATURES**

• 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

ELECTRICAL SPECIFICATIONS					
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  N N N N N N N N N N N N N N N N N N N				
Circuit diagram	$ \begin{array}{c} \overset{a}{\bigcirc} & & & \overset{c}{\bigcirc} \\ (1) & \overset{b}{\triangleright} &  & cw \end{array} $ (2)				
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				
		$\Delta R_{T}/R_{T}$ (%)	$\Delta V_{1-2}/V_{1-3}$ (%)	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	LINEAR LAW			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		
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			
10K	0.75	86.6	8.7			
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			
I	ı	1		1		

### **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)

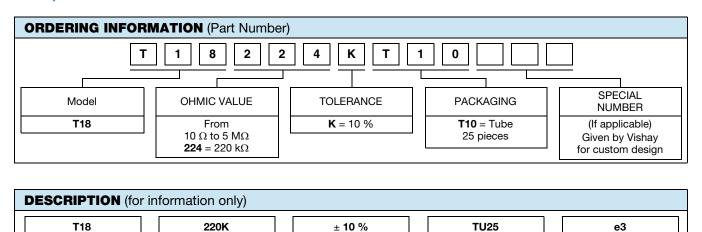


**MODEL** 

**VALUE** 

# Vishay Sfernice

LEAD FINISH



**TOLERANCE** 

**PACKAGING** 



### **Legal Disclaimer Notice**

Vishay

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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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