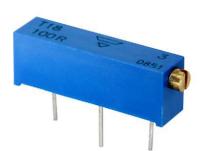
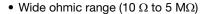


### 3/4" Rectangular Multi-Turn Cermet Trimmer



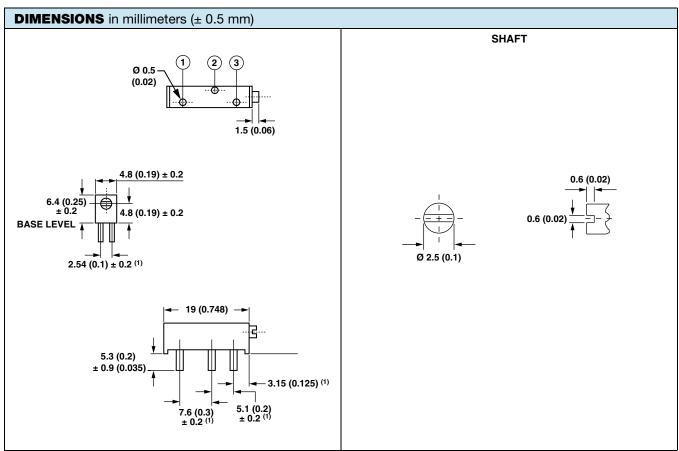
#### **FEATURES**

• 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">www.vishay.com/doc?99912</a>



Note

(1) To be measured at base level

# Vishay Sfernice

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  No.50  O.25  O.20  O.20  O.20  AMBIENT TEMPERATURE IN °C		
Circuit diagram	$ \begin{array}{c} \overset{a}{\circ} \longrightarrow & & \overset{c}{\circ} \\ (1) & \overset{b}{\circ} \longrightarrow & cw \\ (2) & & & & & \\ \end{array} $		
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

#### Note

• Nothing stated herein shall be construed as a guarantee of quality or durability.

STANDARD RESISTANCE ELEMENT DATA					
STANDARD	LINEAR LAW			TYPICAL	
RESISTANCE VALUES	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CURRENT	TCR -55 °C to +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		
100K	0.75	274	2.7		
220K	0.75	400	1.8		
470K	0.34	400	0.85		
1M	0.16	400	0.4		
2.2M	0.07	400	0.18		
4.7M	0.03	400	0.09		

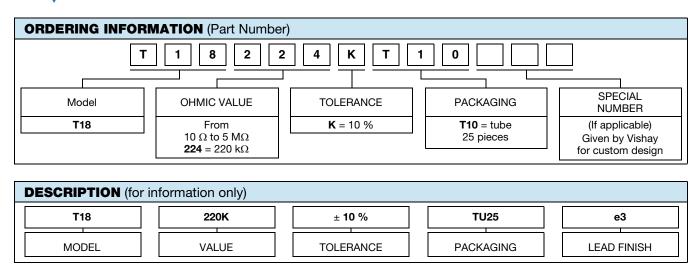
#### **MARKING**

- 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)

# Vishay Sfernice



RELATED DOCUMENTS		
APPLICATION NOTES		
Potentiometers and Trimmers	www.vishay.com/doc?51001	
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029	



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Vishay

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