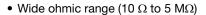


# 3/4" Rectangular Multi-Turn Cermet Trimmer



#### **FEATURES**

• 0.75 W at 70 °C

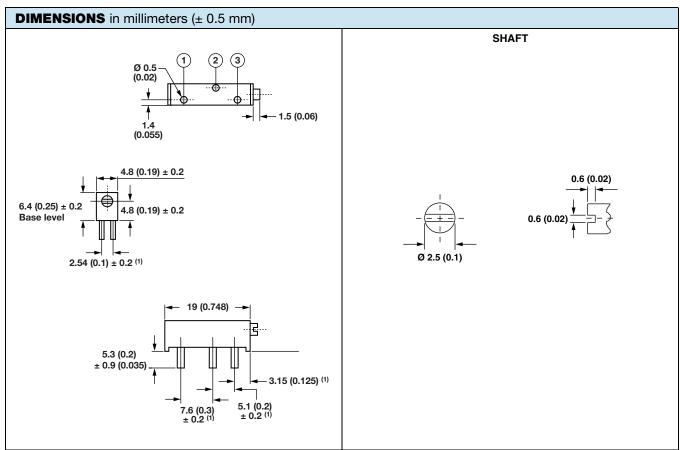




- Multi-finger wiper for better CRV
- Tests according to CECC 41000 or IEC 60393-1
- Industrial grade
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

### **LINKS TO ADDITIONAL RESOURCES**





Note

(1) To be measured at base level

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ELECTRICAL SPECIFICATION Resistive element		Cermet		
Electrical travel				
		15 turns ± 1		
Resistance range		10 Ω to 5 MΩ		
Standard series E3		1 - 2.2 - 4.7 and 1 - 2 - 5		
	ndard	± 10 %		
	Linear	0.75 W at +70 °C		
Power rating		0.75  0.50  0.25  0.25  0.20  40  60  70  80  100  125  140  AMBIENT TEMPERATURE IN °C		
Circuit diagram		$ \begin{array}{ccc} \overset{a}{\bigcirc} & & & & \overset{c}{\bigcirc} \\ (1) & & & \overset{c}{\bigcirc} & & \\ & & & & & & \\ (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 $^3$ 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		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**

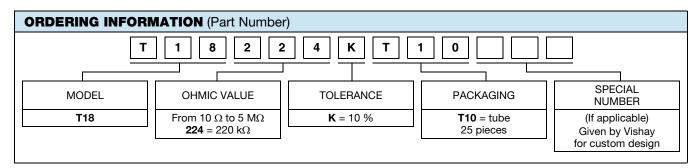
- Vishay trademark
- Vishay part number or model and ohmic value (in  $\Omega$ ,  $k\Omega$ ,  $M\Omega$ )
- Manufacturing date
- Marking of terminal 3

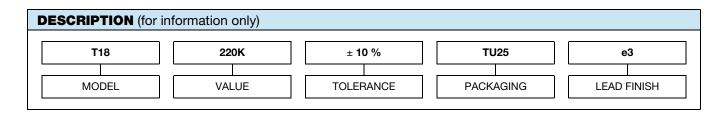
### **PACKAGING**

• 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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