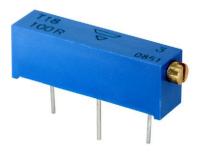
T18 **Vishay Sfernice**

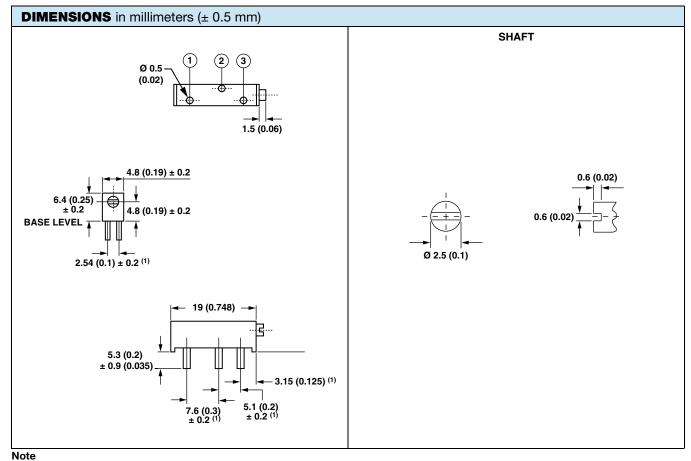
3/4" Rectangular Multi-Turn Cermet Trimmer



click logo to get started

FEATURES

- 0.75 W at 70 °C
- Wide ohmic range (10 Ω to 5 M Ω)
- 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 www.vishay.com/doc?99912



⁽¹⁾ To be measured at base level

1





DESIGN SUPPORT TOOLS

6 Models Available www.vishay.com



Vishay Sfernice

T18

ELECTRICAL SPECIFICATIONS Resistive element Cermet **Electrical travel** 15 turns ± 1 10 Ω to 5 M Ω **Resistance range** Standard series E3 1 - 2.2 - 4.7 and 1 - 2 - 5 Tolerance Standard ± 10 % 0.75 W at +70 °C Linear 0.75 POWER IN W 0.50 **Power rating** 0.25 0 60 70 80 20 40 125 140 0 100 AMBIENT TEMPERATURE IN °C a O-(1) **Circuit diagram** ЪÔ (2) Temperature coefficient See Standard Resistance Element table Limiting element voltage (linear law) 400 V **Contact resistance variation** 1 % Rn or 1 Ω max. End resistance 1 % or 2 Ω **Dielectric strength (RMS)** 1000 V Insulation resistance (500 V_{DC}) $10^3 M\Omega$ 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			TYPICAL VALUES AND DRIFTS			
12515	CONDITIONS	∆ R⊺/R⊺ (%)	∆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 Ω		
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	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

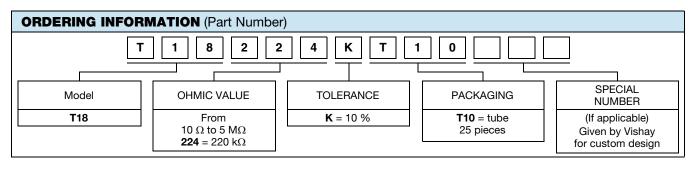
- Vishay part number or model and ohmic value (in Ω , k Ω , M Ω)
- Manufacturing date
- Marking of terminal 3

PACKAGING

• In tube of 25 pieces code T10 (TU25)



Vishay Sfernice



DESCRIPTION (for information only)				
T18	220K	± 10 %	TU25	e3
MODEL	VALUE	TOLERANCE	PACKAGING	LEAD FINISH

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



Vishay

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