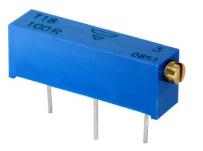
3/4" Rectangular Multi-Turn Cermet Trimmer



www.vishay.com

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 <u>www.vishay.com/doc?99912</u>

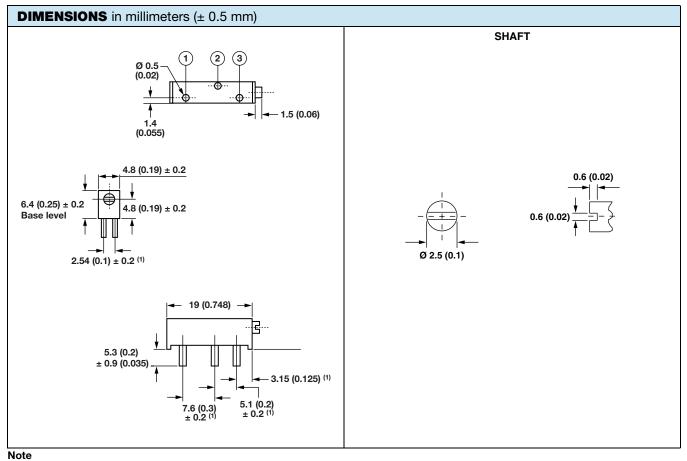


T18

LINKS TO ADDITIONAL RESOURCES



SHA



⁽¹⁾ To be measured at base level

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SHAY. www.vishay.com

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T18

Resistive element	Cermet		
Electrical travel	15 turns ± 1		
Resistance range	10 Ω to 5 M Ω		
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 0.50 0.50 0.25		
Circuit diagram	$ \begin{array}{c} a \\ c \\ (1) \\ b \\ (2) \end{array} $		
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	

Document Number: 51027



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PERFORMANCES				
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS		
12515	CONDITIONS	∆ R⊺/R⊺ (%)	∆ V₁₋₂/V₁₋₃ (%)	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 Ω , k Ω , M Ω)
- Manufacturing date
- Marking of terminal 3

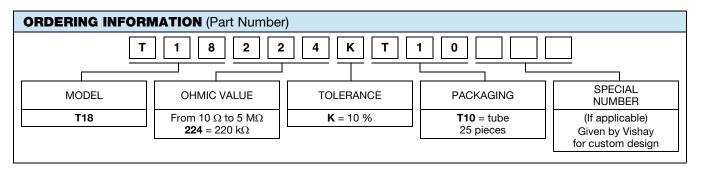
PACKAGING

• In tube of 25 pieces code T10 (TU25)



T18

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DESCRIPTION (for in	formation 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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