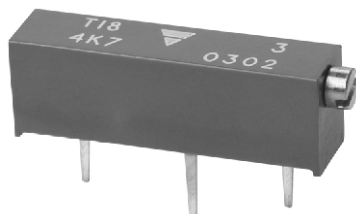


3/4" Rectangular Multi-Turn Cermet Trimmer

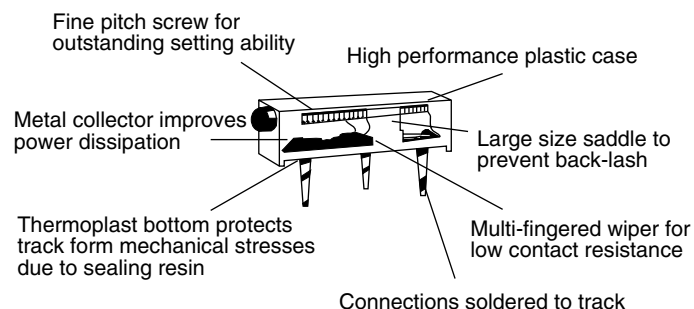


FEATURES

- Industrial Grade
- 0.50 Watt at 70 °C
- MIL-R-22097
- Tests according to CECC 41 000

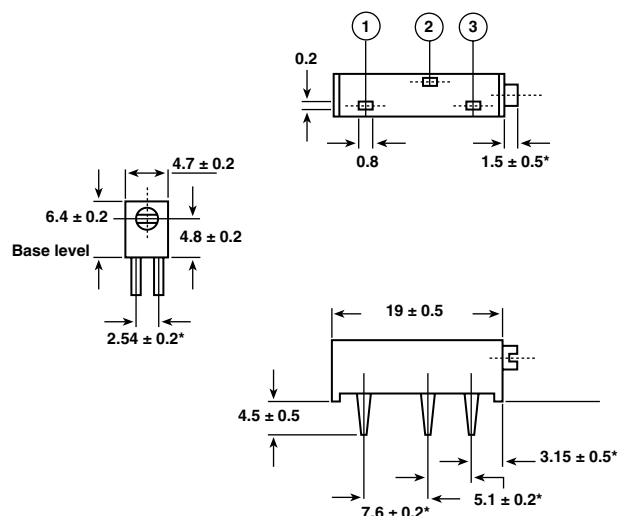


RoHS
COMPLIANT



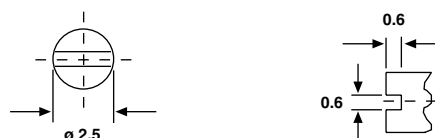
DIMENSIONS in millimeters

T18

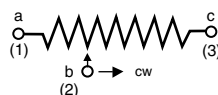


* to be measured at base level

SHAFT



CIRCUIT DIAGRAM



Tolerances unless otherwise specified ± 0.5

ELECTRICAL SPECIFICATIONS

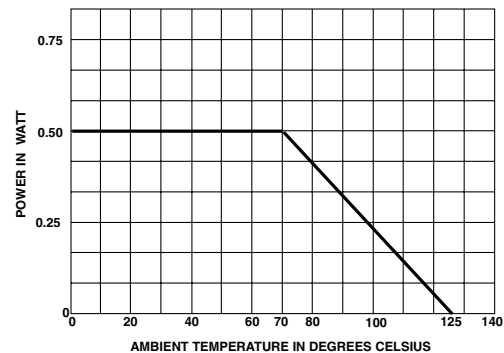
Resistive Element	cermet	
Electrical Travel	15 turns $\pm$ 1	
Resistance Range	10 Ω to 2.2 M Ω	
Standard series E3	1 - 2.2 - 4.7 and 1 - 2 - 5	
Tolerance	Standard	$\pm$ 10 %
	On Request	$\pm$ 5 %
Power Rating	Linear	0.50 W at + 70 °C
	Logarithmic	not applicable
Temperature Coefficient	See Standard Resistance Element Table	
Limiting Element Voltage (Linear Law)	250 V	
Contact Resistance Variation	2 % R _n or 1 Ω	
End Resistance (Typical)	1 Ω	
Dielectric Strength (RMS)	1000 V	
Insulation Resistance (500VDC)	10 ⁶ M Ω	

MECHANICAL SPECIFICATIONS

Mechanical Travel	18 turns $\pm$ 5
Operating Torque (max. Ncm)	2
End Stop Torque	clutch action
Unit Weight (max. g)	1
Wiper (actual travel)	positioned at approx. 50 %

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/125/56
Sealing	fully sealed container IP67

POWER RATING CHART**PERFORMANCE**

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\frac{\Delta R T}{R T}$ (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$ (%)
Load Life	1000 hours at rated power 90°/30° - ambient temp. 70 °C	$\pm$ 1 % Contact res. variation: < 3 % R _n	$\pm$ (3 % + 5 Ω)
Climatic Sequence	Phase A dry heat 125 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	$\pm$ 0.5 %	$\pm$ 1 %
Long Term Damp Heat	56 days	$\pm$ 0.5 % Dielectric strength: 1000 V RMS Insulation resistance: > 10 ⁴ M Ω	$\pm$ 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	$\pm$ 0.5 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm$ 1 %
Shock	50 g at 11m secs 3 successive shocks in 3 directions	$\pm$ 0.2 %	$\pm$ 0.3 %
Vibration	10 - 55 Hz 0.75 mm or 10 g during 6 hours	$\pm$ 0.2 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm$ 0.3 %
Rotational Life	200 cycles	$\pm$ 2 % Contact res. variation: < 2 % R _n	

**STANDARD RESISTANCE ELEMENT DATA**

STANDARD RESISTANCE VALUES	LINEAR LAW			TCR - 55 °C + 125 °C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	
Ω	W	V	mA	ppm/°C
10	0.5	2.24	224	0 + 200
22	0.5	3.32	151	
47	0.5	4.85	103	
100	0.5	7.07	71	± 100
220	0.5	10.5	48	
470	0.5	15.3	33	
1K	0.5	22.4	22	
2K2	0.5	33.2	15	
4K7	0.5	48.5	10	
10K	0.5	70.7	7.1	
22K	0.5	105	4.8	
47K	0.5	153	3.3	
100K	0.5	224	2.2	
220K	0.28	250	1.1	
470K	0.13	250	0.5	
1M	0.06	250	0.3	

MARKING

Printed :

- VISHAY trademark
- model
- style
- ohmic value (in Ω , k Ω , M Ω)
- manufacturing date
- marking of terminal 3

PACKAGING

- In tube of 25 pieces, code "TU25"

ORDERING INFORMATION

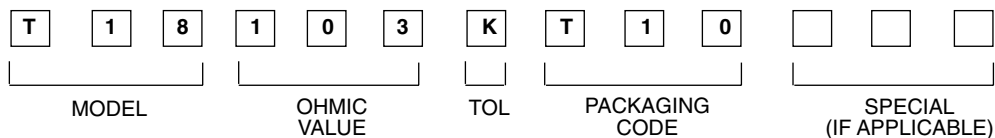
T18
SERIES

10 k Ω
OHMIC VALUE

$\pm 10\%$
TOLERANCE

TU25
PACKAGING
TU25: Tube

e3
LEAD FINISH
e3: pure Sn

SAP PART NUMBERING GUIDELINES

See the end of this data book for conversion tables



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