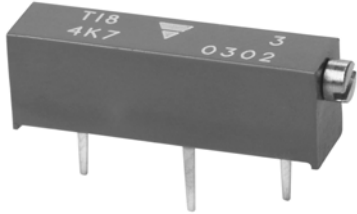
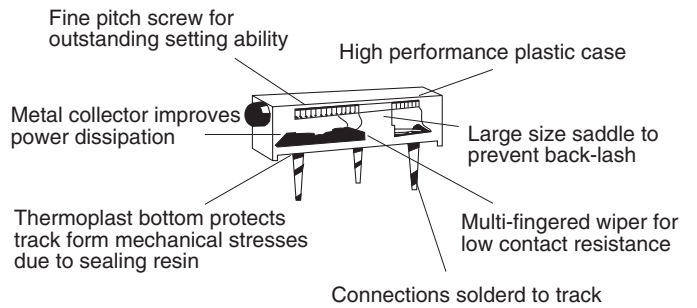
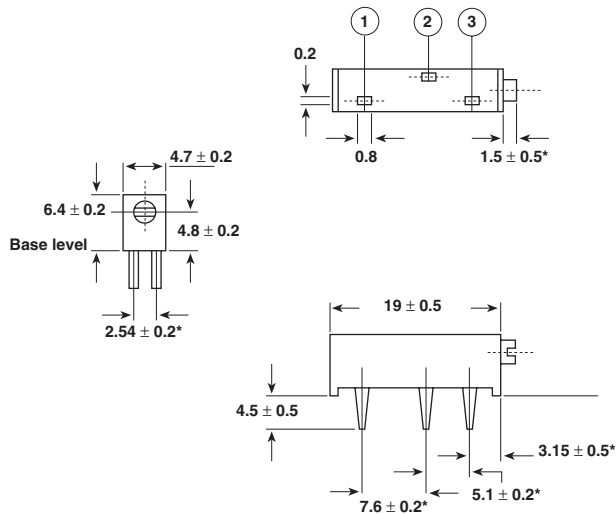


# 3/4" Rectangular Multi-Turn Cermet Trimmer

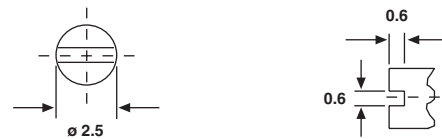
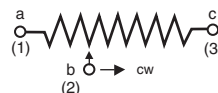

**FEATURES**

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


**DIMENSIONS** in millimeters

**T18**


\*to be measured at base level

**SHAFT**

**CIRCUIT DIAGRAM**


Tolerances unless otherwise specified  $\pm 0.5$



ELECTRICAL SPECIFICATIONS		
Resistive Element		cermet
Electrical Travel		15 turns ± 1
Resistance Range		10 Ω to 2.2 MΩ
Standard series E3		1 - 2.2 - 4.7 and 1 - 2 - 5
Tolerance	Standard	± 10 %
	On Request	± 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 % Rn or 1 Ω
End Resistance (Typical)		1 Ω
Dielectric Strength (RMS)		1000 V
Insulation Resistance (500VDC)		10 <sup>6</sup> MΩ

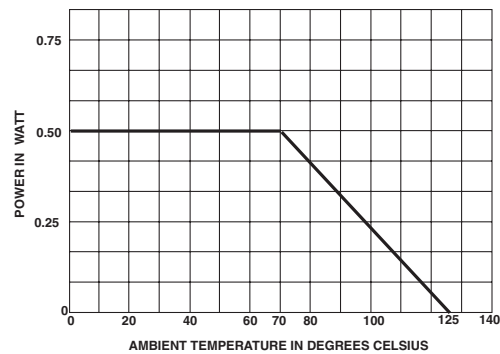
**MECHANICAL SPECIFICATIONS**

Mechanical Travel	18 turns ± 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	
		$\frac{\Delta RT}{RT}$ (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$ (%)
Load Life	1000 hours at rated power 90°/30° - ambient temp. 70 °C	± 1 % Contact res. variation: < 3 % Rn	± (3 % + 5 %)
Climatic Sequence	Phase A dry heat 125 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	± 0.5 %	± 1 %
Long Term Damp Heat	56 days	± 0.5 % Dielectric strength: 1000V RMS Insulation resistance: > 10 <sup>4</sup> MΩ	± 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	± 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	± 0.2 %	± 0.3 %
Vibration	10-55 Hz 0.75 mm or 10 g during 6 hours	± 0.2 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm 0.3 \%$
Rotational Life	200 cycles	± 2 % Contact res. variation: < 2 % Rn	



STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR LAW			T.C. - 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, kΩ, MΩ)
  - manufacturing date
  - marking of terminal 3

PACKAGING
- In tube by 25 pieces, code "TU25"

ORDERING INFORMATION				
T18 SERIES	10 kΩ OHMIC VALUE	± 10 % TOLERANCE	TU25 PACKAGING TU25: Tube	e3 LEAD FINISH e3: pure Sn

SAP PART NUMBERING GUIDELINES												
T	1	8	1	0	3	K	T	1	0			
MODEL			OHMIC VALUE			TOL	PACKAGING CODE			SPECIAL (IF APPLICABLE)		
See the end of this data book for conversion tables												



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