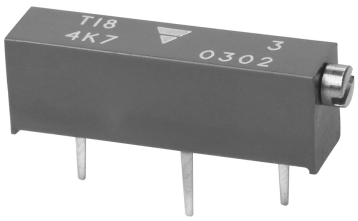
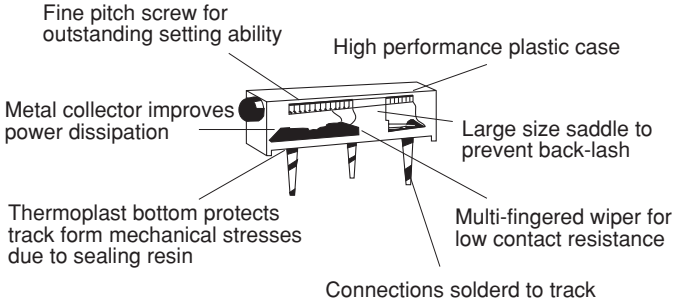
3/4” Rectangular Multi-Turn Cermet Trimmer



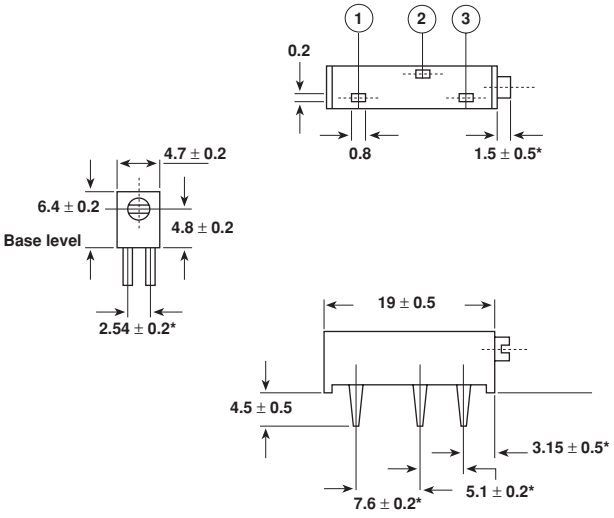
FEATURES

- Industrial Grade
- 0.75 Watt at 70°C
- MIL-R-22097
- CECC 41 100



DIMENSIONS in millimeters

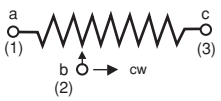
T18



*to be measured at base level

SHAFT

CIRCUIT DIAGRAM



ELECTRICAL SPECIFICATIONS		
Resistive Element		cermet
Electrical Travel		15 turns ± 1
Resistance Range		10Ω to 2.2MΩ
Standard series E3		1 - 2.2 - 4.7 and 1 - 2 - 5
Tolerance	**Standard**	± 10%
	On Request	± 5%
Power Rating	**Linear**	0.75W at + 70°C
	Logarithmic	not applicable
Temperature Coefficient		See Standard Resistance Element Table
Limiting Element Voltage (Linear Law)		250V
Contact Resistance Variation		2% Rn or 1Ω
End Resistance (Typical)		1Ω
Dielectric Strength (RMS)		1000V
Insulation Resistance (500VDC)		10^6MΩ

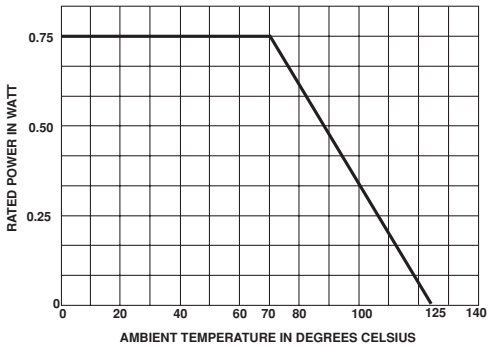
MECHANICAL SPECIFICATIONS

Mechanical Travel	18 turns ± 5
Operating Torque (max. Ncm)	2
End Stop Torque	clutch action
Unit Weight (max. g)	1

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	– 55°C to + 125°C
Climatic Category	55 / 100 / 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: < 1% Rn	± 2%
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: > 10^4 MΩ	± 1%
Rapid Temperature Change	5 cycles – 55°C at + 125°C	± 0.5% $\frac{\Delta V_{1-2}}{V_{1-3}}$	≤ ± 1%
Shock	50 g at 11m secs 3 successive shocks in 3 directions	± 0.2%	± 0.3%
Vibration	10-55 Hz 0.75mm or 10 g during 6 hours	± 0.2% $\frac{\Delta V_{1-2}}{V_{1-3}}$	≤ ± 0.3%
Rotational Life	200 cycles	± 1% 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. CUR. THROUGH ELEMENT	
Ω	W	V	mA	ppm/°C
10	0.75	2.7	270	
22		4.06	184	0
47		5.93	126	+200
100		8.7	87	
220		12.8	58	
470		18.7	40	
1k		27.4	27	
2.2k		40.6	18	
4.7k		59.3	11	
10k		86.6	9	
22k		128.4	5.8	± 100
47k	0.75	187	4	
100k	0.625	250	2.5	
220k	0.28	250	1.09	
470k	0.13	250	0.44	
1M	0.06	250	0.25	
2.2M		250		

MARKING

Printed :
– VISHAY trademark
– series
– style
– ohmic value (in Ω, kΩ, MΩ)
– manufacturing date
– marking of terminal 3

PACKAGING

– In plastic box of 100 pieces, no code
– In tube by 25 pieces, code "TU25"

ORDERING INFORMATION

T18	**10kΩ**	**± 10%**	**TU25**
SERIES	OHMIC VALUE	TOLERANCE	PACKAGING

N.B.: On delivery the wiper is positioned at mid-travel

TU25 : Tube

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