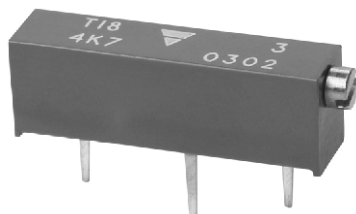




EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

3/4" Rectangular Multi-Turn Cermet Trimmer

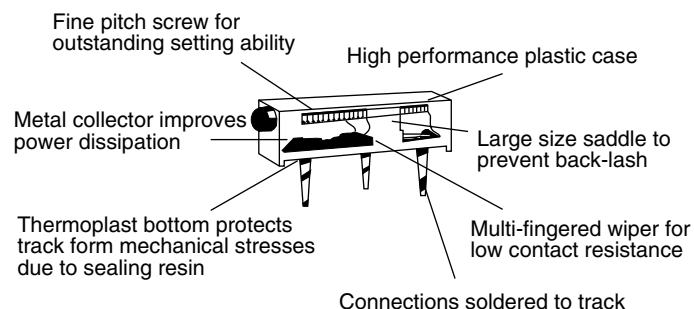


FEATURES

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

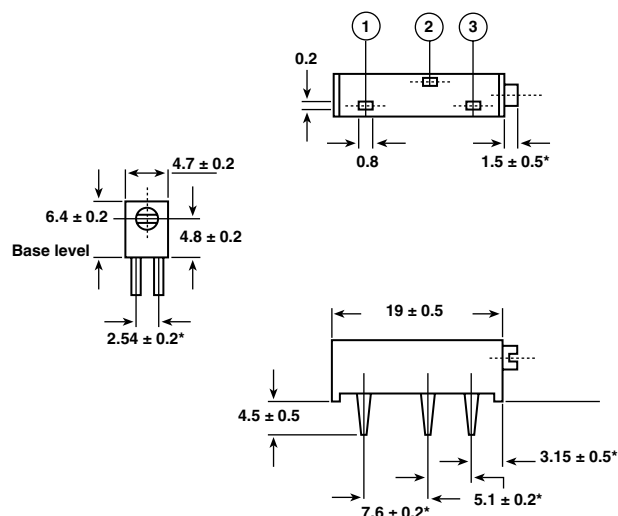


RoHS
COMPLIANT



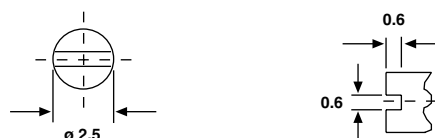
DIMENSIONS in millimeters

T18

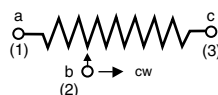


* to be measured at base level

SHAFT



CIRCUIT DIAGRAM



Tolerances unless otherwise specified ± 0.5

ELECTRICAL SPECIFICATIONS

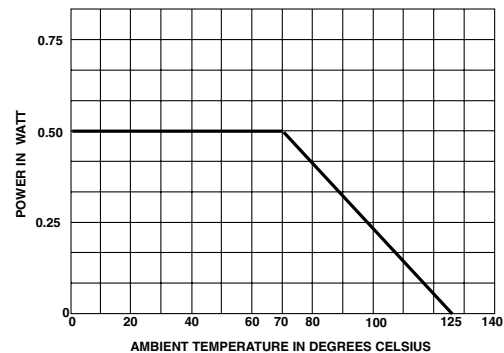
| | | |
|---------------------------------------|---------------------------------------|-------------------|
| Resistive Element | cermet | |
| Electrical Travel | 15 turns \pm 1 | |
| Resistance Range | 10 Ω to 2.2 M Ω | |
| Standard series E3 | 1 - 2.2 - 4.7 and 1 - 2 - 5 | |
| Tolerance | Standard | \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

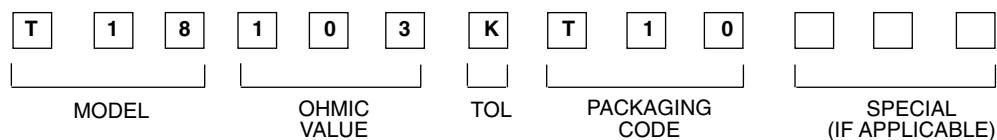
$\pm 10\%$
TOLERANCE

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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