

3/4" Rectangular Multi-Turn Cermet Trimmer

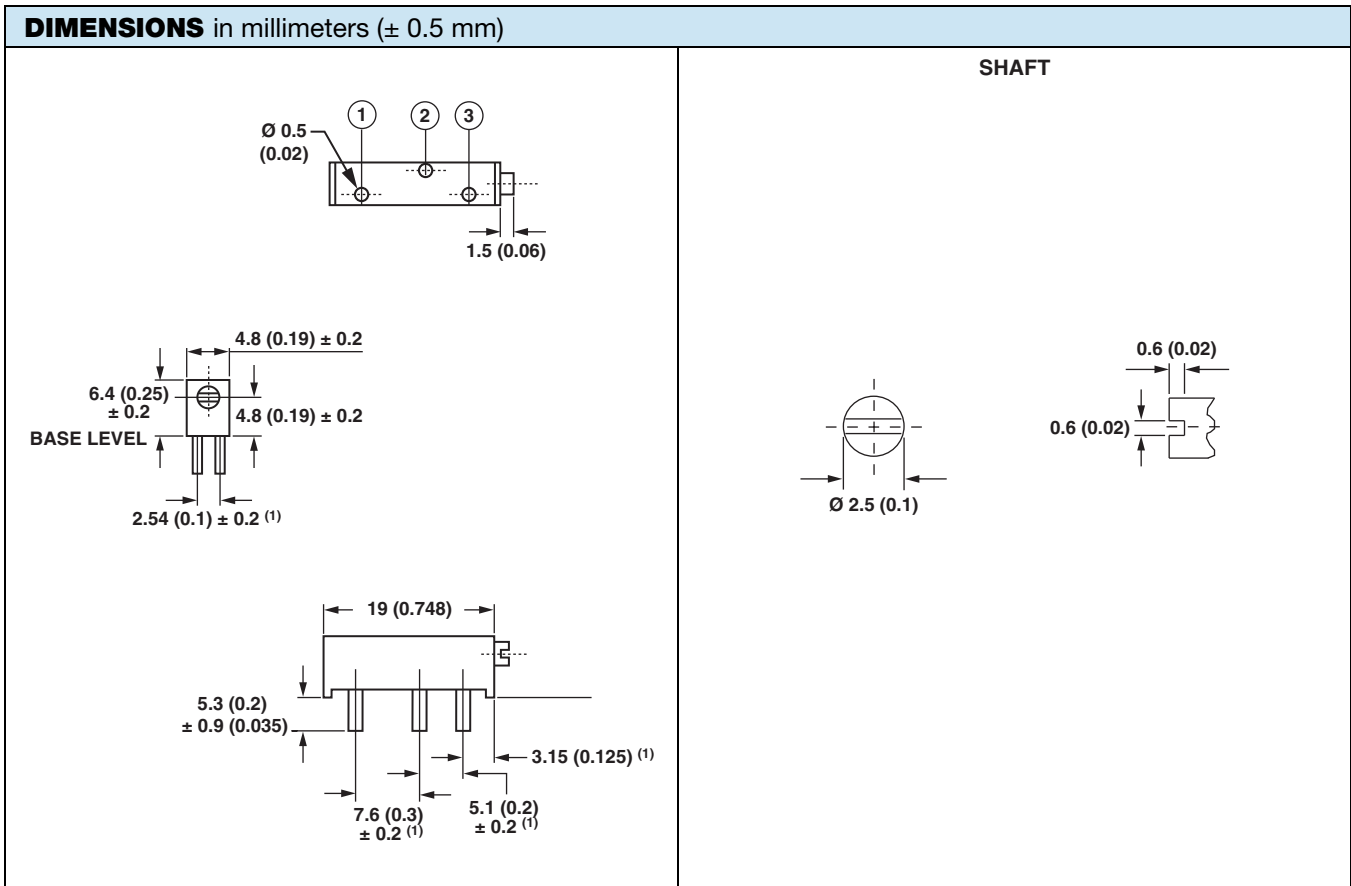


FEATURES

- 0.75 W at 70 °C
- Wide ohmic range (10 Ω to 5 MΩ)
- Multi-finger wiper for better CRV
- Tests according to CECC 41000 or IEC 60393-1
- Industrial grade
- Compliant to RoHS Directive 2002/95/EC



RoHS
COMPLIANT



Note

⁽¹⁾ To be measured at base level

| ELECTRICAL SPECIFICATIONS | |
|--|---------------------------------------|
| Resistive element | Cermet |
| Electrical travel | 15 turns \pm 1 |
| Resistance range | 10 Ω to 5 M Ω |
| Standard series E3 | 1 - 2.2 - 4.7 and 1 - 2 - 5 |
| Tolerance | Standard \pm 10 % |
| Power rating | Linear 0.75 W at + 70 °C |
| Circuit diagram | |
| Temperature coefficient | See Standard Resistance Element table |
| Limiting element voltage (linear law) | 400 V |
| Contact resistance variation | 1 % R _n or 1 Ω max. |
| End resistance | 1 % or 2 Ω |
| Dielectric strength (RMS) | 1000 V |
| Insulation resistance (500 V _{DC}) | 10 ³ M Ω min. |

| MECHANICAL SPECIFICATIONS | |
|----------------------------------|----------------------------|
| Mechanical travel | 18 turns \pm 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 | 55/125/56 |
| Sealing | Fully sealed - IP67 |



| PERFORMANCES | | | |
|---------------------|--|---|---|
| TESTS | CONDITIONS | TYPICAL VALUES AND DRIFTS | |
| | | $\Delta R_T/R_T$ (%) | $\Delta R_{1-2}/R_{1-2}$ (%) |
| Load life | 1000 h at rated power 90'/30' - ambient temp. 70 °C | ± 4 % Contact res. variation: < 3 % Rn | - |
| 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 | ± 3 % Dielectric strength: 1000 V _{RMS} Insulation resistance: > 20 MΩ | ± 1 % |
| Rapid temp. change | 5 cycles - 55 °C to + 125 °C | ± 0.5 % | $\Delta V_{1-2}/\Delta V_{1-3} \leq \pm 2 \%$ |
| Shock | 50 g at 11 ms 3 successive shocks in 3 directions | ± (2 % + 3 Ω) | ± 2 % |
| Vibration | 10 Hz to 55 Hz 0.75 mm or 10 g during 6 h | ± 2 % | $\Delta V_{1-2}/\Delta V_{1-3} \leq \pm 2 \%$ |
| Rotational life | 200 cycles | ± (3 % + 3 Ω) Contact res. variation: < 2 % Rn | - |

| STANDARD RESISTANCE ELEMENT DATA | | | | |
|----------------------------------|---------------------|----------------------|-----------------|------------------------------------|
| STANDARD RESISTANCE VALUES | LINEAR LAW | | | TYPICAL TCR - 55 °C + 125 °C |
| | MAX. POWER AT 70 °C | MAX. WORKING VOLTAGE | MAX. WIPER CUR. | |
| Ω | W | V | mA | ppm/°C |
| 10 | 0.75 | 2.74 | 274 | ± 100 |
| 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 | |
| 10K | 0.75 | 86.6 | 8.7 | |
| 22K | 0.75 | 128 | 5.8 | |
| 47K | 0.75 | 188 | 4.0 | |
| 100K | 0.75 | 274 | 2.7 | |
| 220K | 0.75 | 400 | 1.8 | |
| 470K | 0.34 | 400 | 0.85 | |
| 1M | 0.16 | 400 | 0.40 | |
| 2.2M | 0.07 | 400 | 0.18 | |
| 4.7M | 0.03 | 400 | 0.09 | |

| MARKING |
|---|
| <ul style="list-style-type: none"> Vishay trademark Vishay part number or model and ohmic value (in Ω, kΩ, MΩ) Manufacturing date Marking of terminal 3 |

| PACKAGING |
|--|
| <ul style="list-style-type: none"> In tube of 25 pieces code T10 (TU25) |



| ORDERING INFORMATION (Part Number) | | | | | | | | | | | | |
|------------------------------------|---|--------------------------------------|---|---|-----------|---|-------------------------|---|---|---|--|--|
| T | 1 | 8 | 2 | 2 | 4 | K | T | 1 | 0 | | | |
| Model | | OHMIC VALUE | | | TOLERANCE | | PACKAGING | | | SPECIAL NUMBER | | |
| T18 | | From 10 Ω to 5 MΩ 224 = 220 kΩ | | | K = 10 % | | T10 = Tube 25 pieces | | | (If applicable) Given by Vishay for custom design | | |

| DESCRIPTION (for information only) | | | | |
|------------------------------------|-------|-----------|-----------|-------------|
| T18 | 220K | ± 10 % | TU25 | e3 |
| MODEL | VALUE | TOLERANCE | PACKAGING | LEAD FINISH |



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