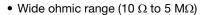


3/4" Rectangular Multi-Turn Cermet Trimmer



FEATURES

• 0.75 W at 70 °C

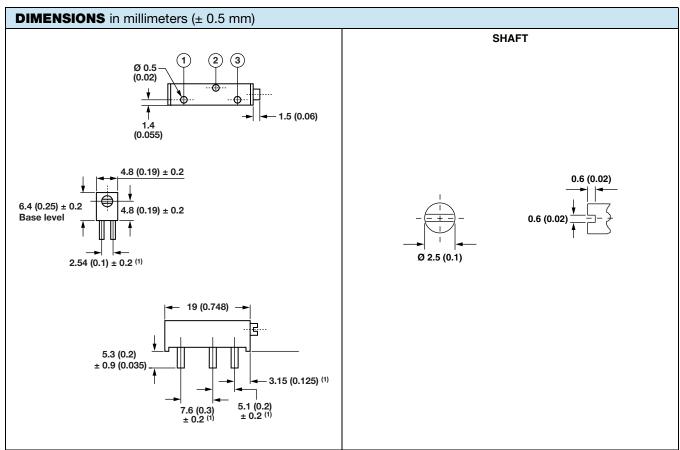




- Multi-finger wiper for better CRV
- Tests according to CECC 41000 or IEC 60393-1
- Industrial grade
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

LINKS TO ADDITIONAL RESOURCES





Note

(1) To be measured at base level

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| ELECTRICAL SPECIFICATION Resistive element | | Cermet | | |
|--|--------|--|--|--|
| Electrical travel | | | | |
| | | 15 turns ± 1 | | |
| Resistance range | | 10 Ω to 5 MΩ | | |
| Standard series E3 | | 1 - 2.2 - 4.7 and 1 - 2 - 5 | | |
| | ndard | ± 10 % | | |
| | Linear | 0.75 W at +70 °C | | |
| Power rating | | 0.75 0.50 0.25 0.25 0.20 40 60 70 80 100 125 140 AMBIENT TEMPERATURE IN °C | | |
| Circuit diagram | | $ \begin{array}{ccc} \overset{a}{\bigcirc} & & & & \overset{c}{\bigcirc} \\ (1) & & & \overset{c}{\bigcirc} & & \\ & & & & & & \\ (2) & & & & & \\ \end{array} $ | | |
| Temperature coefficient | | See Standard Resistance Element table | | |
| Limiting element voltage (linear law) | | 400 V | | |
| Contact resistance variation | | 1 % Rn 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 ± 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 55/125/4 | | |
| Sealing | Fully sealed - IP67 | |

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| PERFORMANCES | | | | | |
|------------------------|---|---------------------------|------------------------------|---|--|
| TESTS | CONDITIONS | TYPICAL VALUES AND DRIFTS | | | |
| | | $\Delta R_{T}/R_{T}$ (%) | $\Delta V_{1-2}/V_{1-3}$ (%) | OTHER | |
| Load life | 1000 h at rated power 90'/30' - ambient temp. 70 °C | ± 4 % | - | - | |
| Damp heat steady state | 4 days | ± 3 % | - | Dielectric strength: 1000 V_{RMS} Insulation resistance: > 20 $M\Omega$ | |
| Rapid temp. change | 5 cycles -55 °C to +125 °C | ± 0.5 % | ± 2 % | - | |
| Shock | 50 g at 11 ms 3 successive shocks in 3 directions | ± 2 % | ± 2 % | - | |
| Vibration | 10 Hz to 55 Hz 0.75 mm or 10 g during 6 h | ± 2 % | ± 2 % | - | |
| Rotational life | 200 cycles | ± (3 % + 1 Ω) | - | Contact res. variation: < 1 % Rn | |

Note

• Nothing stated herein shall be construed as a guarantee of quality or durability

| STANDARD RESISTANCE ELEMENT DATA | | | | | |
|----------------------------------|---------------------------|----------------------------|--------------------------|-----------------------------|--|
| STANDARD | | TYPICAL | | | |
| RESISTANCE VALUES | MAX. POWER AT 70 °C | MAX. WORKING VOLTAGE | MAX. WIPER CURRENT | TCR -55 °C to +125 °C | |
| Ω | W | V | mA | ppm/°C | |
| 10 | 0.75 | 2.74 | 274 | | |
| 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 | . 100 | |
| 10K | 0.75 | 86.6 | 8.7 | ± 100 | |
| 22K | 0.75 | 128 | 5.8 | | |
| 47K | 0.75 | 188 | 4 | | |
| 100K | 0.75 | 274 | 2.7 | | |
| 220K | 0.75 | 400 | 1.8 | | |
| 470K | 0.34 | 400 | 0.85 | | |
| 1M | 0.16 | 400 | 0.4 | | |
| 2.2M | 0.07 | 400 | 0.18 | | |
| 4.7M | 0.03 | 400 | 0.09 | | |

MARKING

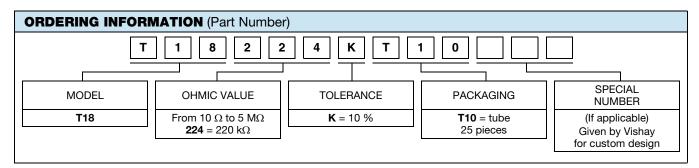
- Vishay trademark
- Vishay part number or model and ohmic value (in Ω , $k\Omega$, $M\Omega$)
- · Manufacturing date
- Marking of terminal 3

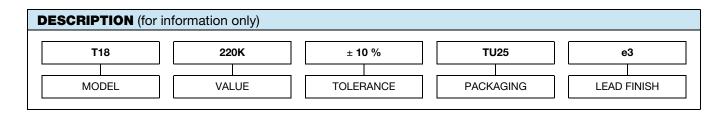
PACKAGING

• In tube of 25 pieces code T10 (TU25)



Vishay Sfernice





| RELATED DOCUMENTS | | | |
|---|--------------------------|--|--|
| APPLICATION NOTES | | | |
| Potentiometers and Trimmers | www.vishay.com/doc?51001 | | |
| Guidelines for Vishay Sfernice Resistive and Inductive Components | www.vishay.com/doc?52029 | | |



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