## 3/4" Rectangular Multi-Turn Cermet Trimmer <br> FEATURES



- 0.75 W at $70^{\circ} \mathrm{C}$
- 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



## Note

${ }^{(1)}$ To be measured at base level


## 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 | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |
| :--- | :---: |
| Climatic category | $55 / 125 / 4$ |
| Sealing | Fully sealed -IP 67 |


| 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 $90^{\prime} / 30^{\prime}$ - ambient temp. $70^{\circ} \mathrm{C}$ | $\pm 4 \%$ | - | - |
| Damp heat steady state | 4 days | $\pm 3 \%$ | - | Dielectric strength: 1000 VRMS Insulation resistance: $>20 \mathrm{M} \Omega$ |
| Rapid temp. change | $\begin{gathered} 5 \text { cycles } \\ -55^{\circ} \mathrm{C} \text { to }+125^{\circ} \mathrm{C} \end{gathered}$ | $\pm 0.5$ \% | $\pm 2 \%$ | - |
| Shock | 50 g at 11 ms 3 successive shocks in 3 directions | $\pm 2 \%$ | $\pm 2 \%$ | - |
| Vibration | 10 Hz to 55 Hz 0.75 mm or 10 g during 6 h | $\pm 2 \%$ | $\pm 2 \%$ | - |
| Rotational life | 200 cycles | $\pm(3 \%+1 \Omega)$ | - | Contact res. variation: < 1 \% Rn |

Note

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

| STANDARD RESISTANCE VALUES | LINEAR LAW |  |  | $\begin{array}{\|l} \text { TYPICAL } \\ \text { TCR } \\ -55^{\circ} \mathrm{C} \text { to } \\ +125^{\circ} \mathrm{C} \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | MAX. POWER AT $70^{\circ} \mathrm{C}$ | MAX. WORKING VOLTAGE | MAX. WIPER CURRENT |  |
| $\Omega$ | W | V | mA | ppm/ ${ }^{\circ} \mathrm{C}$ |
| 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 |  |
| 2.2 K | 0.75 | 40.6 | 18 |  |
| 4.7 K | 0.75 | 59.4 | 13 |  |
| 10K | 0.75 | 86.6 | 8.7 | $\pm 100$ |
| 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 |  |
| 2.2 M | 0.07 | 400 | 0.18 |  |
| 4.7M | 0.03 | 400 | 0.09 |  |

## MARKING

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


## PACKAGING

- In tube of 25 pieces code T10 (TU25)


## ORDERING INFORMATION (Part Number)



## DESCRIPTION (for information only)

| T18 | 220K | $\pm 10 \%$ | TU25 | e3 |
| :---: | :---: | :---: | :---: | :---: |
| MODEL | VALUE | TOLERANCE | PACKAGING | LEAD FINISH |


| 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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## X-ON Electronics

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