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RoHS COMPLIANT

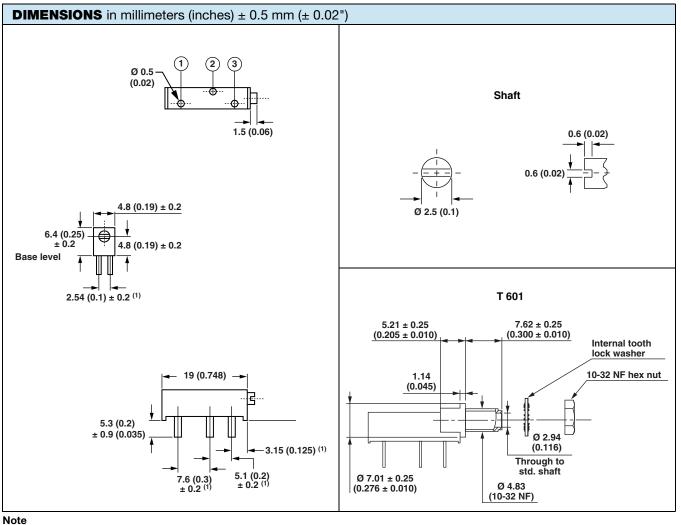
3/4" Rectangular (19 mm) Multi-Turn Cermet Trimmer



click logo to get started

FEATURES

- 0.75 W at 70 °C
- Wide ohmic value range (10 Ω to 5 MΩ)
- · Panel mount available
- Multi-finger wiper for better C.R.V.
- Tests according to CECC 41000 or IEC 60393-1
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



⁽¹⁾ To be measured at base level

Revision: 31-Aug-2018

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For technical questions, contact: sferpottrimmers@vishay.com

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DESIGN SUPPORT TOOLS

Models Available

Www.vishay.com

Vishay Spectrol

| Resistive element | | Cermet | | |
|--|---------|--|--|--|
| Electrical travel | | 15 turns ± 1 | | |
| Resistance range | | 10 Ω to 5 M Ω | | |
| Standard series E3 | | 1 - 2 - 5 | | |
| Tolerance S | tandard | ± 10 % | | |
| | Linear | 0.75 W at +70 °C | | |
| Power rating | | 0.75 0.50 0.25 0.25 0 0 0 0 0 0 0 0 0 0 0 0 0 | | |
| Circuit diagram | | $ \begin{array}{c} a \\ (1) \\ b \\ (2) \end{array} \begin{array}{c} c \\ (3) \\ (3) \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 (typical) | | 1 % or 2 Ω | | |
| Dielectric strength (RMS) | | 1000 V | | |
| Insulation resistance (500 V _{DC}) | | $10^3 M\Omega$ 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 | Pure Sn (code e3) | | |

| ENVIRONMENTAL SPECIFICATIONS | | | |
|------------------------------|---------------------|--|--|
| Temperature range | -55 °C to +125 °C | | |
| Climatic category | 55/125/4 | | |
| Sealing | Fully sealed - IP67 | | |

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Vishay Spectrol

| TEOTO | | TYPICAL VALUES AND DRIFTS | | | |
|--------------------------|---|---------------------------|---|---|--|
| TESTS | CONDITIONS | ∆ R⊺/R⊺ (%) | ∆V ₁₋₂ /V ₁₋₃ (%) | OTHER | |
| Load life | 1000 h at rated power 90'/30' - ambient temp. 70 °C | ±4% | - | - | |
| Humidity | 4 days | ± 3 % | - | Dielectric strength: 1000 V _{RMS} Insulation resistance: > 20 M Ω | |
| Rapid temperature 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 | | LINEAR LAW | | | |
| RESISTANCE | MAX. POWER AT 70 °C | MAX. WORKING VOLTAGE | MAX. WIPER CUR. | TCR -55 °C +125 °C | |
| Ω | W | V | mA | ppm/°C | |
| 10 | 0.75 | 2.74 | 274 | | |
| 20 | 0.75 | 3.87 | 194 | | |
| 50 | 0.75 | 6.12 | 122 | | |
| 100 | 0.75 | 8.66 | 87 | | |
| 200 | 0.75 | 12.2 | 61 | | |
| 500 | 0.75 | 19.4 | 39 | | |
| 1K | 0.75 | 27.4 | 27 | | |
| 2K | 0.75 | 38.7 | 19 | | |
| 5K | 0.75 | 61.2 | 12 | . 100 | |
| 10K | 0.75 | 86.6 | 8.7 | ± 100 | |
| 20K | 0.75 | 122 | 6.1 | | |
| 50K | 0.75 | 194 | 3.9 | | |
| 100K | 0.75 | 274 | 2.7 | | |
| 200K | 0.75 | 387 | 1.9 | | |
| 500K | 0.32 | 400 | 0.8 | | |
| 1M | 0.16 | 400 | 0.4 | | |
| 2M | 0.08 | 400 | 0.2 | | |
| 4M | 0.03 | 400 | 0.08 | | |

MARKING

- Vishay trademark
- Vishay part number or model, ohmic value code and tolerance code
- Manufacturing date
- Marking of terminals 1 and/or 3

PACKAGING

• In box of 200 pieces code B40 (BO200)

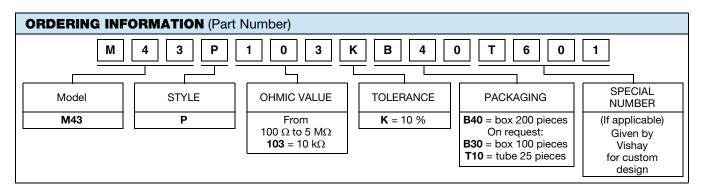
On request:

- In box of 100 pieces code B30 (BO100)
- In tube of 25 pieces code T10 (TU25)



Vishay Spectrol

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| DESCRIPTION (for information only) | | | | | | |
|------------------------------------|-------|-------|-----------|---------|-----------|-------------|
| 43 | Р | 10K | 10 % | T601 | BO100 | e3 |
| MODEL | STYLE | VALUE | TOLERANCE | SPECIAL | 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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