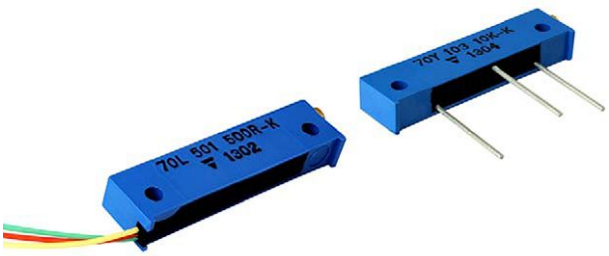
# 1 1/4" Rectangular Multi-Turn Cermet Trimmer



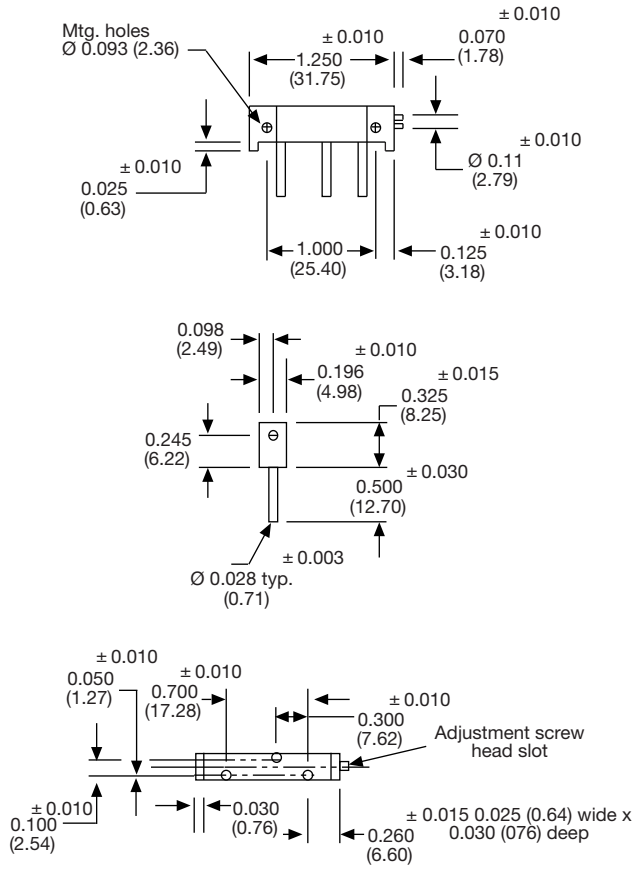
## FEATURES

- 0.5 W at 70 °C
- Unique “T” slider block design
- Wire leads available
- CRV of 3 % or 3 Ω
- RT tolerance ± 10 % STD (± 5 % available)
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

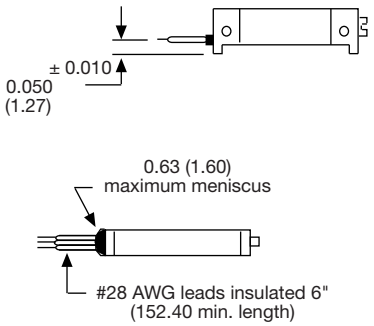
RoHS COMPLIANT

**DIMENSIONS** in inches (millimeters) ± 0.02" (± 0.5 mm)

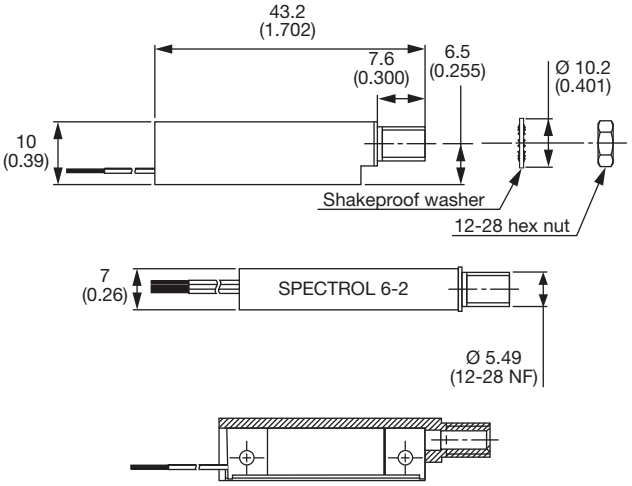
**70Y**




**70L**

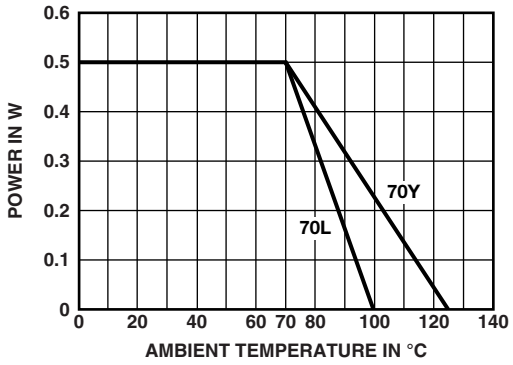
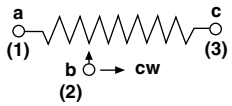



**T 601**





For technical questions, contact: sferpottrimmers@vishay.com
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| ELECTRICAL SPECIFICATIONS | |
|---|---|
| Resistance range | 10 Ω thru 2 MΩ |
| Standard resistance tolerance | 10 % |
| End resistance | 2 % maximum |
| Actual effective electrical travel | 20 turns nominal |
| Contact resistance variation | 3 % or 3 Ω, whichever is greater |
| Dielectric withstanding voltage | 1000 $V_{AC}$ at sea level, 350 $V_{AC}$ at 80 000 feet (24 400 meters) |
| Insulation resistance | 1000 MΩ |
| Power rating | 0.5 W at 70 °C   |
| Circuit diagram |   |
| Limiting element voltage | 350 V |
| Temperature coefficient of resistance (typical) | ± 100 ppm/°C |

| MECHANICAL SPECIFICATIONS | |
|---|---|
| Operating torque | 5 oz. in (3.60 Ncm) maximum |
| Rotational life | 200 cycles with loaded circuit, maximum change in resistance 2 % or 500 cycles without discontinuity unloaded |
| Weight | 0.116 oz. (3.3 g) maximum |
| Terminals | Pure Sn (code e3) |

**Note**

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

| ENVIRONMENTAL SPECIFICATIONS | |
|---|---|
| Operating temperature range | -55 °C to +125 °C (100 °C for leadwire style) |
| Terminal strength | 2 lbs (9 N) minimum push/pull |
| Sealed | All units sealed to permit cleaning in common solvents immersion |
| Climatic category | M70Y: 55/125/21<br>M70L: 55/100/21 |

**PERFORMANCES**

| TESTS | CONDITIONS | TYPICAL VALUES AND DRIFTS | |
|---|---|---|---|
| | | $\Delta R_T/R_T$ (%) | $\Delta R_{1\text{-}2}/R_{1\text{-}2}$ (%) |
| Thermal shock | -55 °C to +125 °C, 5 cycles (100 °C for leadwire style) | 1 % | 1 % |
| Shock | 50 *g* at 11 ms, 3 successive shocks in 3 directions | 1 % | 1 % |
| Vibration | 10 Hz to 55 Hz 0.75 mm or 10 *g* for 6 h | 1 % | 1 % |
| Load life | 1000 h at rater power 90'/30' | 1 % | 5 % |
| High temperature exposure | +125 °C (100 °C for leadwire style) | 1 % | 5 % |
| Resistance to solder heat | 350 °C for 3 s | 1 % | - |


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## MARKING

- Model
- Ohmic value
- Tolerance
- Circuit diagram
- Manufacturing date

## PACKAGING

In box of 50 pieces code B25 (BO50)

## ORDERING INFORMATION (part number)

| M | 7 | 0 | L | 1 | 0 | 3 | K | B | 2 | 5 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| MODEL | STYLE | OHMIC VALUE | TOLERANCE | PACKAGING CODE | SPECIAL NUMBER |
|---|---|---|---|---|---|
| M70 | **L** = leadwire<br>**Y** = printed circuit pins | From 10 Ω to 2 MΩ<br>**103** = 10K | **K** = 10 %<br>On request:<br>**J** = 5 % | **B25** = box 50 pieces | (If applicable)<br>Given by Vishay for custom design |

## DESCRIPTION (for information only)

| 70 | L | 10K | 10 % | | BO50 | e3 |
|---|---|---|---|---|---|---|
| MODEL | STYLE | VALUE | TOLERANCE | SPECIAL | PACKAGING | LEAD (Pb)-FREE |

## 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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