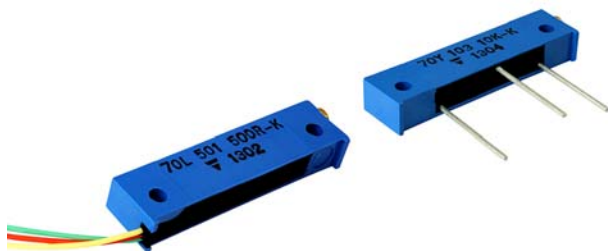


# 1 1/4" Rectangular Multi-Turn Cermet Trimmer



## FEATURES

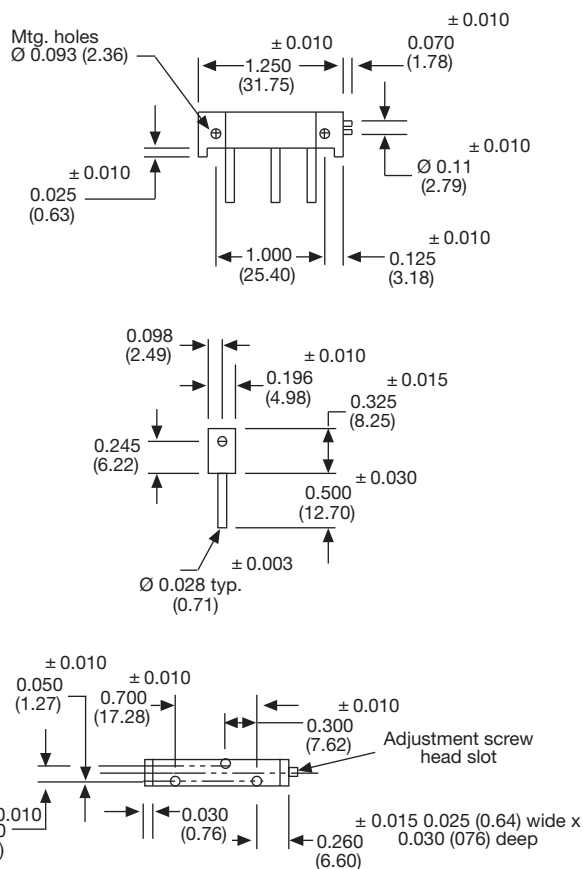
- 0.5 W at 70 °C
- Unique “T” slider block design
- Wire leads available
- CRV of 3 % or 3 Ω
- RT tolerance ± 10 % STD (± 5 % available)
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: for definitions of compliance please see [www.vishay.com/doc299912](http://www.vishay.com/doc299912)



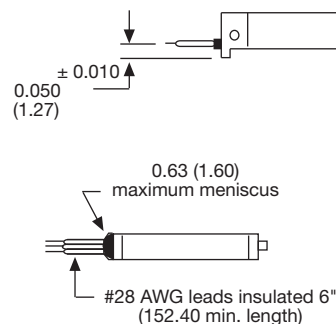
**RoHS**  
COMPLIANT

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

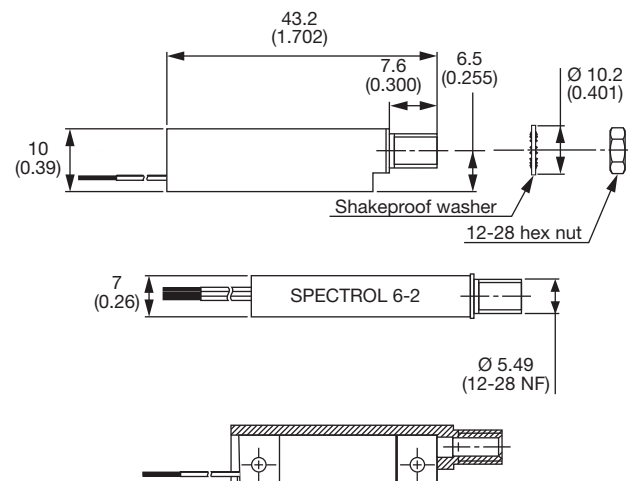
### 70Y

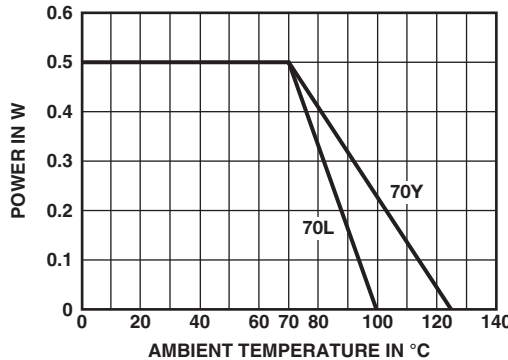
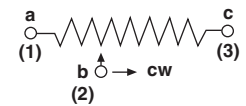


### 70L



### T 601



| ELECTRICAL SPECIFICATIONS                       |                                                                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Resistance range                                | 10 $\Omega$ thru 2 M $\Omega$                                                                            |
| Standard resistance tolerance                   | 10 %                                                                                                     |
| End resistance                                  | 2 % maximum                                                                                              |
| Actual effective electrical travel              | 20 turns nominal                                                                                         |
| Contact resistance variation                    | 3 % or 3 $\Omega$ , whichever is greater                                                                 |
| Dielectric withstanding voltage                 | 1000 V <sub>AC</sub> at sea level, 350 V <sub>AC</sub> at 80 000 feet (24 400 meters)                    |
| Insulation resistance                           | 1000 M $\Omega$                                                                                          |
| Power rating                                    | <p>0.5 W at 70 °C</p>  |
| Circuit diagram                                 |                       |
| Limiting element voltage                        | 350 V                                                                                                    |
| Temperature coefficient of resistance (typical) | $\pm 100$ 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 |                              |
|                           |                                                         | $\Delta R_T/R_T$ (%)      | $\Delta R_{1-2}/R_{1-2}$ (%) |
| 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 rated 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 %                       | -                            |



## 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 $\Omega$ to 2 M $\Omega$<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 |



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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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