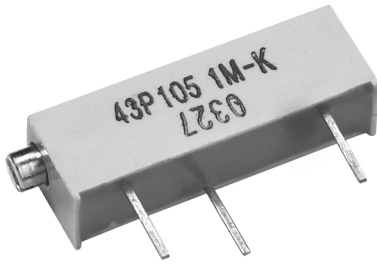


## 3/4" Rectangular (19mm) Multi-Turn Cermet Trimmer

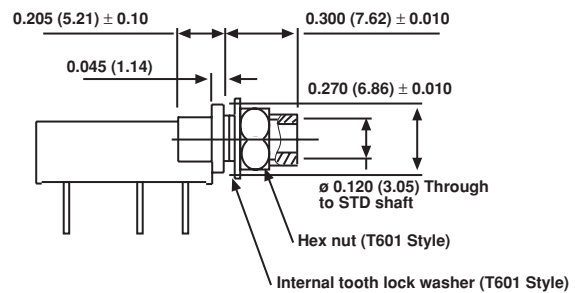
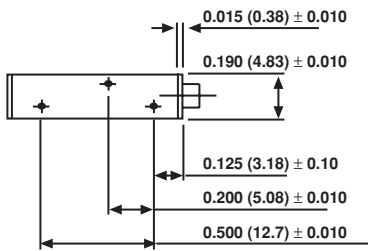
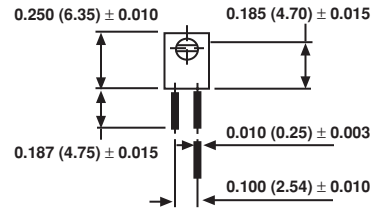
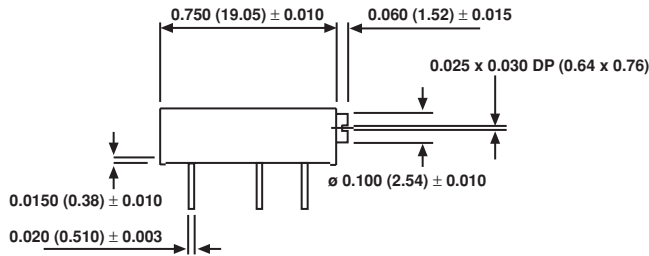


The Model 43 is manufactured to the highest international standards. This product, sealed to 85°C for 1 minute (IEC. 68-2-17) has an effective travel of 20 turns nominal and a resistance range of 10Ω to 2MΩ.

### FEATURES

- Panel mount, clear lid versions available
- Chevron shaft for sealing and smooth consistent torque
- Unique "T" slider block for excellent stability and setability
- Solder plated terminals for good solderability
- Solder terminations for improved reliability
- I.C. style pins for easier board insertion
- Multi-finger wiper for better C.R.V.

### DIMENSIONS in inches (millimeters)



### CIRCUIT DIAGRAM





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

Vishay Spectrol

| ELECTRICAL SPECIFICATIONS             |   |
|---------------------------------------|---|
| Resistive Element                     | cermet  |
| Electrical Travel                     | 20 turns nominal  |
| Resistance Range                      | 10Ω to 2MΩ  |
| Resistance Tolerance                  | ± 10%   |
| Power Rating                          | 0.5W at + 70°C, derated linearly to zero watts at 125°C<br>Maximum voltage not to exceed 400V |
| Temperature Coefficient of Resistance | ± 100ppm/°C. 100Ω to 2MΩ<br>- 100 to 200ppm/°C. 10Ω, 20Ω and 50Ω                              |
| Contact Resistance Variation          | 1% Rn or 1Ω, whichever is greater   |
| End Resistance                        | 2Ω or 1%, whichever is greater  |
| Dielectric Withstanding Voltage       | 1000VAC at sea level, 250VAC at 80, 00 feet (24, 000 meters)                                  |
| Insulation Resistance (500VDC)        | 1000MΩ minimum  |

**MECHANICAL SPECIFICATIONS**

|                      |                          |
|----------------------|--------------------------|
| Rotational Life      | 200 cycles min. ±2% res. |
| Operating Torque     | 5 oz (35mNm) max         |
| End Stop Torque      | wiper idles against stop |
| Unit Weight (max. g) | 1.13                     |
| Stability            | ± 0.05% RT               |

**ENVIRONMENTAL SPECIFICATIONS**

|                   |                   |
|-------------------|-------------------|
| Temperature Range | - 55°C to + 125°C |
| Climatic Category | 55 / 125 / 21     |

| ENVIRONMENTAL SPECIFICATIONS |                                  |       |                |                |                        |                         |
|------------------------------|----------------------------------|-------|----------------|----------------|------------------------|-------------------------|
| TESTS                        | CONDITIONS                       | MAX R | CHANGE VAB VAC | PER CECC 41100 | PER IEC 68.1 PART      | PER MIL 202F            |
| Bumps                        | 390m/s <sup>2</sup> , 4000       | 1%    | -              | (PARA) 2.3.3   | TEST EB (IEC 68-2-29)  | NO EQUIV                |
| Vibration                    | 98m/s <sup>2</sup> , 10 to 500Hz | 1%    | 2%             | (PARA) 2.3.2   | TEST FC (IEC 68-2-6)   | METHOD 204              |
| Electrical Endurance         | 1000 hours                       | 3%    | -              | (PARA) 2.5.16  | -                      | NO EQUIV                |
| Soldering                    | -                                | -     | -              | (PARA) 2.3.7   | TEST TB (IEC 68-2-20)  | METHOD 208              |
| Resistance to Heat           | -                                | 1%    | -              | (PARA) 2.3.7   | TEST TB (IEC 68-2-20A) | METHOD 210<br>METHOD 1A |
| Damp Heat Steady Rate        | 21 days                          | 3%    | -              | (PARA) 2.1     | TEST C (IEC 68-2-3)    | METHOD 103              |
| Sealing                      | 85°C for 1 minute                | -     | -              | AS IEC         | TEST QC (IEC 68-2-17)  | METHOD 112              |
| Mechanical Life              | 200 cycles                       | 3%    | -              | -              | METHOD 2               | -                       |
| Terminal Strength            | 2.2lbs (1kg)                     | min   | -              | -              | -                      | -                       |

**MARKING**

- Printed:
- VISHAY trademark
  - model
  - style
  - ohmic value (in Ω, kΩ, MΩ)
  - tolerance (in %)
  - manufacturing date
  - marking of terminal 3

| ORDERING INFORMATION       |   |                             |
|----------------------------|---|-----------------------------|
| 43P<br>MODEL AND PIN STYLE | SPECIAL<br>(omit if standard)<br>T601 - Panel mount<br>T602 - Base rise | 103<br>EIA RESISTANCE VALUE |

| SAP PART NUMBERING GUIDELINES |   |   |   |             |   |   |     |                |   |   |                         |  |  |  |
|-------------------------------|---|---|---|-------------|---|---|-----|----------------|---|---|-------------------------|--|--|--|
| M                             | 4 | 3 | P | 1           | 0 | 3 | K   | B              | 4 | 0 |                         |  |  |  |
| MODEL                         |   |   |   | OHMIC VALUE |   |   | TOL | PACKAGING CODE |   |   | SPECIAL (IF APPLICABLE) |  |  |  |

See the end of this data book for conversion tables