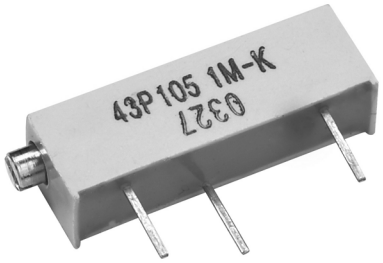
# 3/4” Rectangular (19mm)
# Multi-Turn Cermet Trimmer

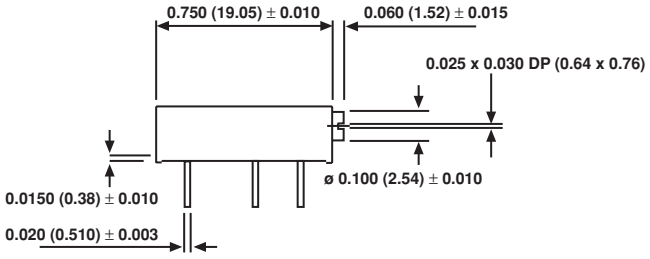


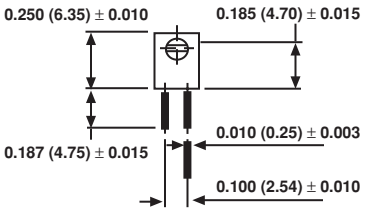

The Model 43 is manufactured to the highest international standards. This product, sealed to 85°C for 1 minute (IEC. 68-2-17) has an effective travel of 20 turns nominal and a resistance range of 10Ω to 2MΩ.

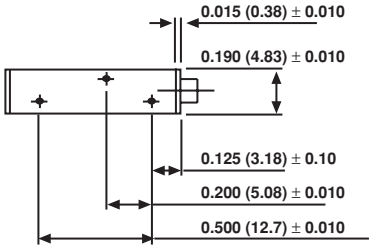
## FEATURES

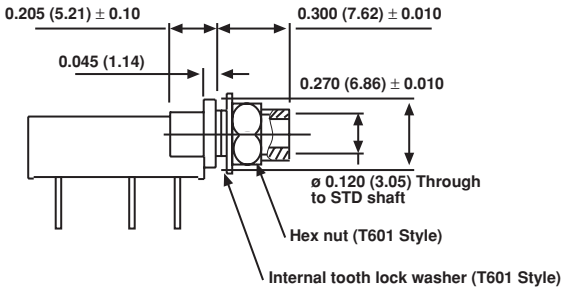
- Panel mount, clear lid versions available
- Chevron shaft for sealing and smooth consistent torque
- Unique “T” slider block for excellent stability and setability
- Solder plated terminals for good solderability
- Solder terminations for improved reliability
- I.C. style pins for easier board insertion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

**DIMENSIONS** in inches (millimeters)

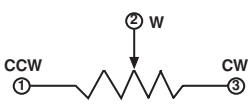



### CIRCUIT DIAGRAM



| 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$^2$, 4000 | 1% | – | (PARA) 2.3.3 | TEST EB (IEC 68-2-29) | NO EQUIV |
| **Vibration** | 98m/s$^2$, 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