

# Multi-Turn Trimmer

## Model 43



### Features:

- 3 mm
- Sealed surface mount
- RoHS compliant



## Model Styles Available

J hook surface mount

43W

## Electrical

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| Resistance Range                      | 10 Ohm to 2 Megohms                        |
| Standard Resistance Tolerance         | ± 20%                                      |
| Input Voltage, Maximum                | 200 Vdc or rms, not to exceed power rating |
| Power rating, Watts                   | 0.125 @ 70°C, derating to 0 @ 150°C        |
| End Resistance, Maximum               | 1% or 3 Ohms, whichever is greater         |
| Actual Electrical Travel, Nominal     | 11 turns                                   |
| Dielectric Strength                   | 600 V AC                                   |
| Insulation Resistance, Minimum        | 100 Megohms                                |
| Resolution                            | Essentially infinite                       |
| Contact Resistance Variation, Maximum | 3% or 3 Ohms, whichever is greater         |
| Temperature Coefficient of Resistance | ±100 ppm/°C                                |

## Mechanical

|                 |             |
|-----------------|-------------|
| Mechanical Stop | Wiper idles |
| Torque, Maximum | 2.5 in. oz. |
| Weight, Approx. | 0.01 oz.    |
| Wiper Position  | Approx. 50% |

### General Note

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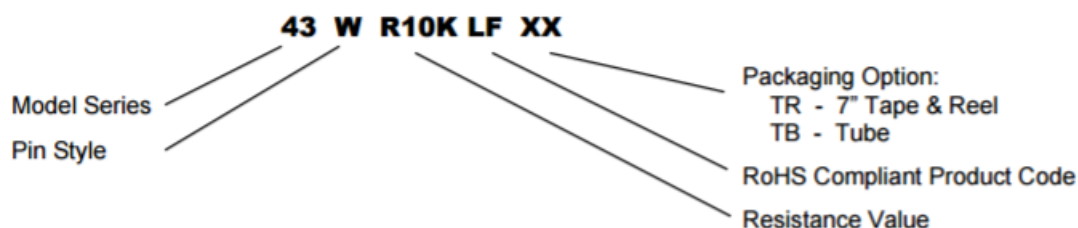
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### Environmental

|                                              |                                                          |
|----------------------------------------------|----------------------------------------------------------|
| Seal                                         | 85°C Fluorinert®                                         |
| Operating Temperature Range                  | -65°C to +150°C                                          |
| Thermal Shock, 5 cycles, -55°C to +125°C     | 2% ΔR, 2% ΔV Ratio max.                                  |
| Moisture Resistance, Ten 24 Hour Cycles      | 3% ΔR                                                    |
| Shock, 6 ms Sawtooth 100G's                  | 1% ΔR, 1% ΔV Ratio max.                                  |
| Vibration, 20G's to 2000 Hz                  | 1% ΔR, 1% ΔV Ratio max.                                  |
| High Temperature Exposure, 250 Hours @ 125°C | 2% ΔR, 2% ΔV Ratio max.                                  |
| Rotational Life, 200 Cycles                  | 3% ΔR                                                    |
| Load Life, 0.125W, 1000 Hours, 70°C          | 4% ΔR or 4 ohms which ever is greatest, 2% ΔV Ratio max. |
| Resistance to Solder Heat                    | 260°C for 5 sec.                                         |

### Ordering Information



### Packaging Information

|                                                                    |                   |
|--------------------------------------------------------------------|-------------------|
| <b>Tape &amp; Reel</b>                                             |                   |
| Tape Width                                                         | 12 mm             |
| Sprocket Pitch                                                     | 4 mm              |
| Reel Diameter                                                      | 7 inches          |
| Quantity per Reel                                                  | 500 units         |
| <b>Tubes</b>                                                       |                   |
| Anti-Static Tubes, all units oriented with #1 pin to the same side | 50 units per tube |

### Standard Resistance Values, Ohms

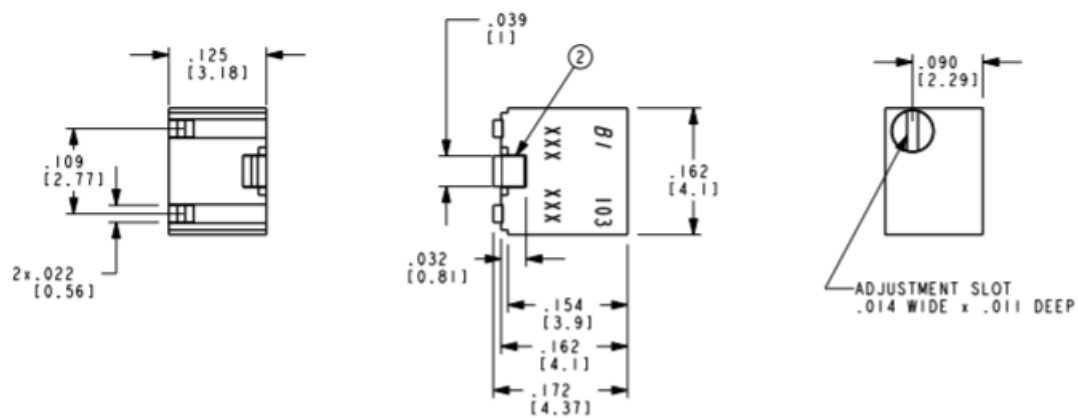
|    |     |    |     |      |       |
|----|-----|----|-----|------|-------|
| 10 | 100 | 1K | 10K | 100K | 1 Meg |
| 20 | 200 | 2K | 20K | 200K | 2 Meg |
| 50 | 500 | 5K | 50K | 500K |       |

#### General Note

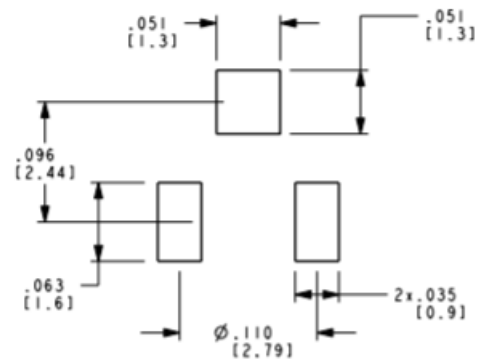
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### Outline Drawings

#### Model 43W

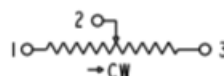


#### RECOMMENDED PCB LAYOUT (INCH/mm)



DIMENSIONS ARE : INCHES (mm)  
TOLERANCES :  $\pm .010$  (.25) EXCEPT WHERE NOTED

### Circuit Diagram



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