

MODEL 43  
3 mm Multi-Turn  
Sealed Surface Mount  
Cermet Trimming  
Potentiometer  
RoHS compliant



#### MODELS AVAILABLE

|                      |     |
|----------------------|-----|
| J hook surface mount | 43W |
|----------------------|-----|

#### ELECTRICAL<sup>1</sup>

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| 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% |

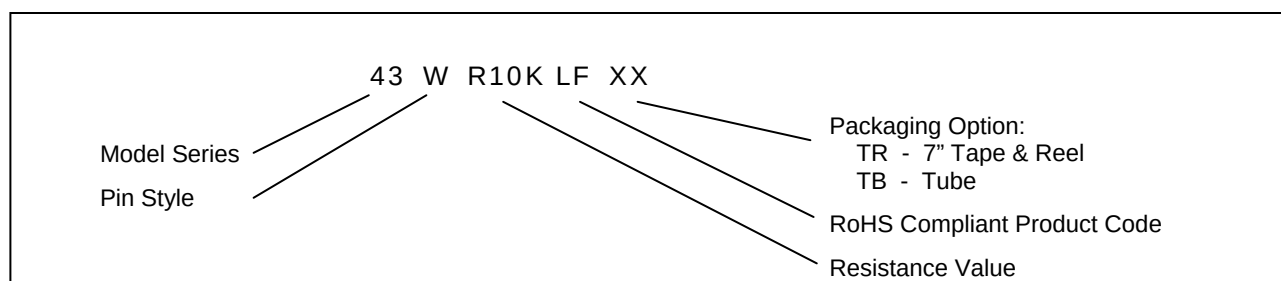
<sup>1</sup> Specifications subject to change without notice.

# MODEL 43

## 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<sup>2</sup>



## PACKAGING INFORMATION

### Tape & Reel

|                   |           |
|-------------------|-----------|
| Tape Width        | 12 mm     |
| Sprocket Pitch    | 4 mm      |
| Reel Diameter     | 7 inches  |
| Quantity per Reel | 500 units |

### Tubes

|                                                                    |                   |
|--------------------------------------------------------------------|-------------------|
| Anti-Static Tubes, all units oriented with #1 pin to the same side | 50 units per tube |
|--------------------------------------------------------------------|-------------------|

## STANDARD RESISTANCE VALUES, OHMS

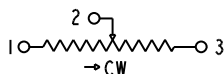
|    |     |    |     |      |       |
|----|-----|----|-----|------|-------|
| 10 | 100 | 1K | 10K | 100K | 1 Meg |
| 20 | 200 | 2K | 20K | 200K | 2 Meg |
| 50 | 500 | 5K | 50K | 500K |       |

<sup>2</sup> Contact our customer service for custom designs and features.

## OUTLINE DRAWING<sup>3</sup>

Figure 1 shows three views of a mechanical part with dimensions in inches and millimeters. The top view is a square with a side length of .051 [1.3]. The front view shows a rectangular part with a height of .096 [2.44] and a width of .063 [1.6]. The side view shows a rectangular part with a height of .051 [1.3] and a width of 2 x .035 [0.9]. The bottom view shows a circular feature with a diameter of  $\phi .110$  [2.79].

## CIRCUIT DIAGRAM



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