

MODEL 43

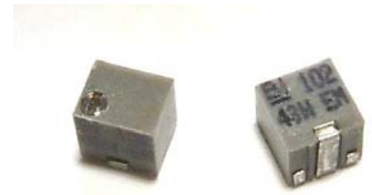
3 mm Multi-Turn

Sealed Surface Mount

Cermet Trimming

Potentiometer

RoHS compliant



MODELS AVAILABLE

J hook surface mount	43W
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ELECTRICAL¹

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%

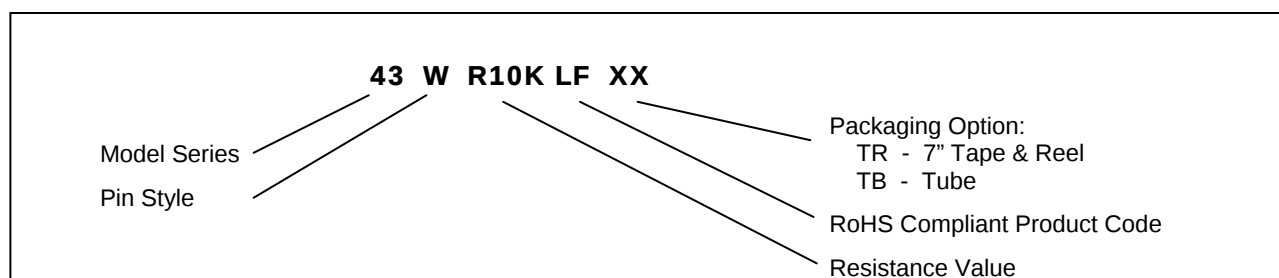
¹ Specifications subject to change without notice.

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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 INFORMATION²



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
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STANDARD RESISTANCE VALUES, OHMS

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

² Contact our customer service for custom designs and features.

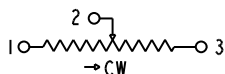
OUTLINE DRAWING³

Technical drawings of the B1 103 component showing three views: side, front, and top. The side view shows a width of .125 [3.18] and a height of .109 [2.77]. The front view shows a width of .162 [4.1] and a height of .172 [4.37]. The top view shows a width of .090 [2.29] and a height of .162 [4.1]. Dimensions are given in inches and millimeters.

Figure 1 shows a three-dimensional model of a mechanical part with the following dimensions:

- Top horizontal edge: $.051$ [1.3]
- Top vertical edge: $.051$ [1.3]
- Left vertical edge: $.096$ [2.44]
- Bottom horizontal edge: $.063$ [1.6]
- Bottom vertical edge: $\phi .110$ [2.79]
- Right vertical edge: $2 \times .035$ [0.9]

CIRCUIT DIAGRAM



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