# MODEL 93 1/2" Diameter Single Turn Cermet Trimming Potentiometer

### ELECTRICAL



Standard Resistance Range, Ohms	20 to 2Meg
Standard Resistance Tolerance	±10% (<100 0hms = ±20%)
Input Voltage, Maximum	200 Vdc or rms not to exceed power rating
Slider Current, Maximum	100mA or within rated power, whichever is less
Power Rating, Watts	1.0 at 70°C derating to 0 at 125°C
End Resistance, Maximum	2 Ohms
Actual Electrical Travel, Nominal	270°
Dielectric Strength	900 Vrms
Insulation Resistance, Minimum	1,000 Megohms
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	1% or 1 Ohm, whichever is greater

### ENVIRONMENTAL

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	±100ppm/°C
Operating Temperature Range	–55°C to +125°C
Thermal Shock	5 cycles, -55°C to +125°C (1% ΔRT, 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (1% $\Delta$ RT, IR 100 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% ΔRT, 1% ΔVR)
Vibration	20G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR)
High Temperature Exposure	250 hours at 125°C (2% ΔRT, 2% ΔVR)
Rotational Life	200 cycles (3% ΔRT)
Load Life at 0.5 Watts	1,000 hours at 70°C (2% ΔRT)
Resistance to Solder Heat	260°C for 10 sec. (1% $\Delta$ RT)

# MECHANICAL

Mechanical Stops	24 ozin.
Stop Strength	1.5 lbin. (0.169 N-m)
Torque, Starting Maximum	5 ozin. (0.035 N-m)
Weight, Nominal	.052 oz. (1.5 grams)

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### TOP ADJUSTMENT



# STANDARD RESISTANCE VALUES, OHMS

20	200	2K	20K	100K	500K
50	500	5K	25K	200K	1Meg
100	1K	10K	50K	250K	2Meg

# **Bi** technologies

### PACKAGING

Standard: Boxes

Capacity = 50 units

### ORDERING INFORMATION

Standard:



#### CIRCUIT DIAGRAM



### NOTES

Metric equivalents, based on 1 inch = 25.4mm are rounded to the same number of significant figures as in the original English units and are provided for general information only.

Tolerances unless otherwise specified: Linear =  $\pm$  .01 inches (.25mm) Angular =  $\pm$  2 degrees

