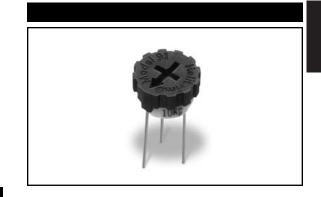
## MODEL 91 3/8" Diameter

# Single Turn Cermet Trimming

### **Potentiometer**



#### ELECTRICAL

Standard Resistance Range, Ohms	10 to 2Meg			
Standard Resistance Tolerance	±20%			
Input Voltage, Maximum	250 Vdc or rms not to exceed power rating			
Slider Current, Maximum	100mA or within rated power, whichever is less			
Power Rating, Watts	0.5 at 70°C derating to 0 at 125°C			
End Resistance, Maximum	2 Ohms			
Actual Electrical Travel, Nominal	174°			
Dielectric Strength	500 Vrms			
Insulation Resistance, Minimum	1,000 Megohms			
Resolution	Essentially infinite			
Contact Resistance Variation, Maximum	1% or 1 Ohm, whichever is greater			

#### ENVIRONMENTAL

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% ΔRT)

#### MECHANICAL

Mechanical Stops	Solid
Stop Strength	12 ozin. (0.085 N-m)
Torque, Starting Maximum	5ozin. (0.042 N-m)
Weight, Nominal	.03 oz. (0.85 grams)

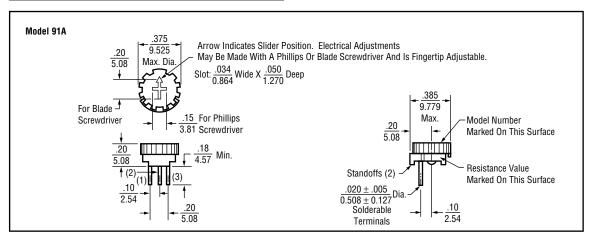
Specifications subject to change without notice.



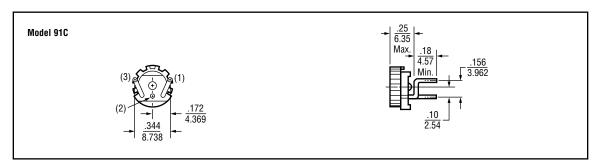
1-83

Model 91

#### TOP ADJUSTMENT (Inch/mm)





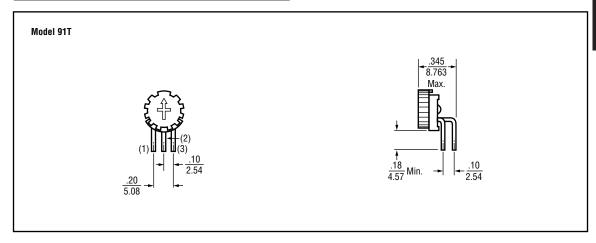






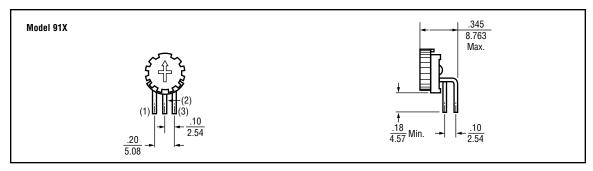
1-84

Model 91











1-85

Model 91

#### STANDARD RESISTANCE VALUES, OHMS

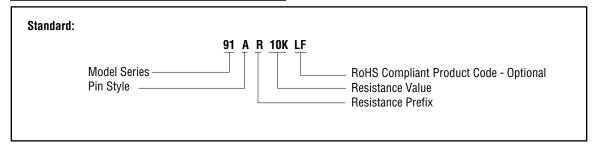
10	200	5K	50K	500K	
20	500	10K	100K	1Meg	
50	1K	20K	200K	2Meg	
100	2K	25K	250K		

#### PACKAGING

Standard: Boxes

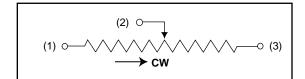
Capacity = 100 Units

#### ORDERING INFORMATION



1-86

#### 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.



