## Model 91



#### Features:

- 3/8" diameter
- Single-turn
- Cermet



### 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			
perating Temperature Range -55°C				
Thermal Shock	5 cycles, -55°C to +125°C (1% ΔRT, 1% ΔVR)			
Moisture Resistance	Ten 24 hour cycles (1% ∆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)

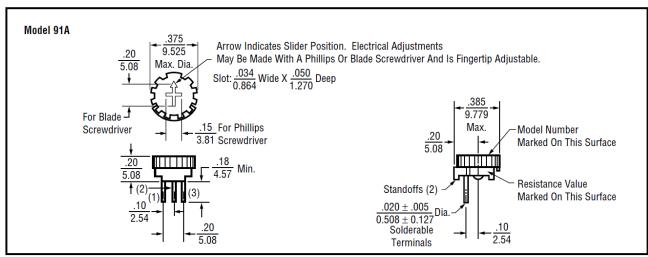
Specifications subject to change without notice.

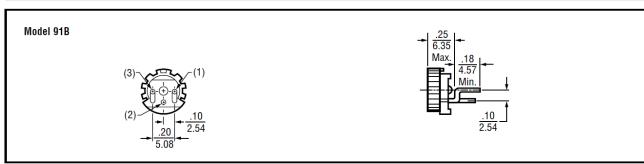
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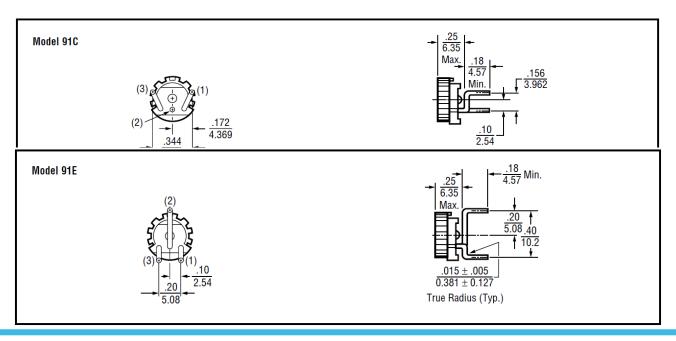
### Model 91



### TOP ADJUSTMENT (Inch/mm)



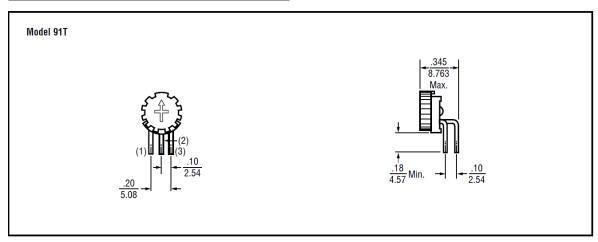




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### SIDE ADJUSTMENT (Inch/mm)









### Model 91



### STANDARD RESISTANCE VALUES, OHMS

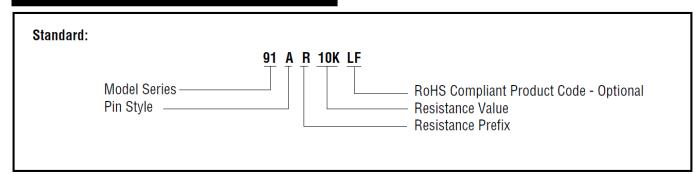
10	200	5K	50K	500K
20	500	10K	100K	1Meg
50	1K	20K	200K	2Meg
100	2K	25K	250K	

### PACKAGING

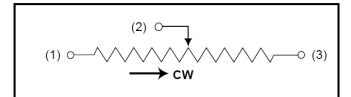
Standard: Boxes

Capacity = 100 Units

### ORDERING INFORMATION



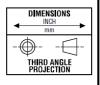
### CIRCUIT DIAGRAM



### 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



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