

# Single-Turn Cermet Trimmer

## 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                                       |
| 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% ΔRT, 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 oz.-in. (0.085 N-m) |
| Torque, Starting Maximum | 5oz.-in. (0.042 N-m)   |
| Weight, Nominal          | .03 oz. (0.85 grams)   |

Specifications subject to change without notice.

#### General Note

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TT Electronics | BI Technologies  
413 Rood RD, Suite 7  
Calexico, CA 92231  
Ph: + 1 (714) 447-2345  
[www.ttelectronics.com/bi-technologies](http://www.ttelectronics.com/bi-technologies)

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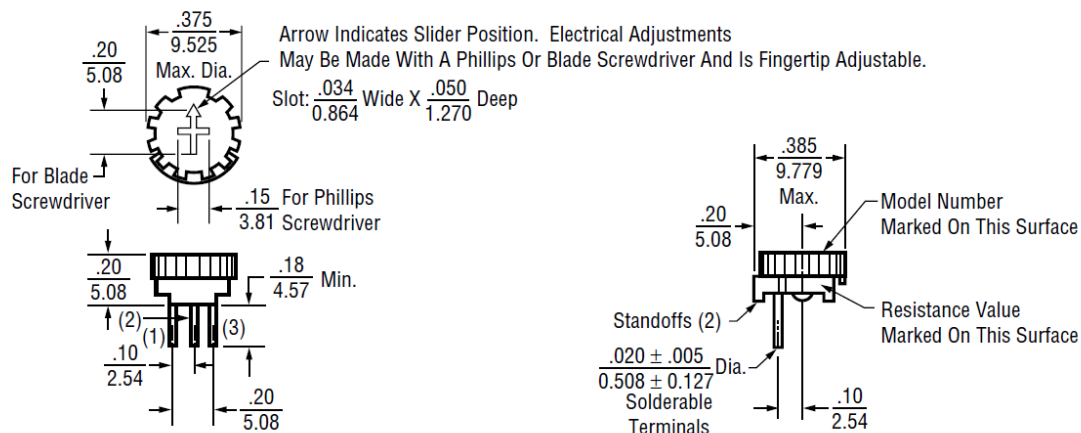
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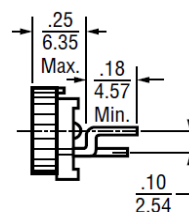
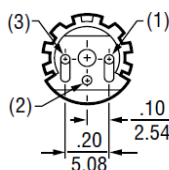


### TOP ADJUSTMENT (Inch/mm)

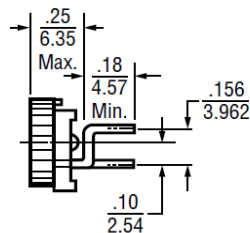
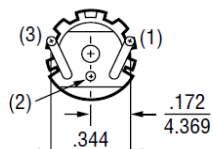
**Model 91A**



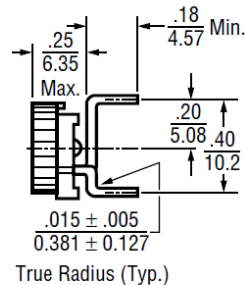
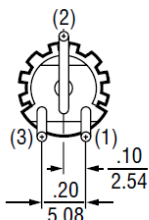
**Model 91B**



**Model 91C**



**Model 91E**



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### SIDE ADJUSTMENT (Inch/mm)

Model 91T



Model 91V



Model 91W



Model 91X



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Calexico, CA 92231  
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### STANDARD RESISTANCE VALUES, OHMS

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

### PACKAGING

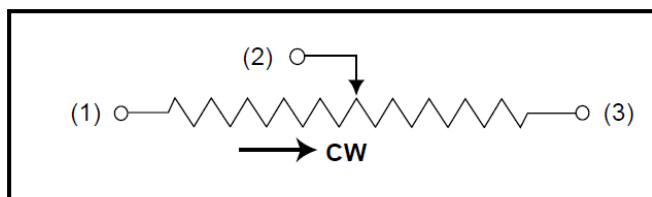
Standard: Boxes  
Capacity = 100 Units

### ORDERING INFORMATION

Standard:

Model Series ——— **91** ———  
Pin Style ——— **A** ———  
Resistance Prefix ——— **R** ———  
Resistance Value ——— **10K** ———  
RoHS Compliant Product Code - Optional ——— **LF** ———

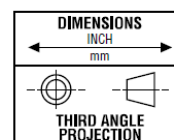
### CIRCUIT DIAGRAM



### 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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