

# 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

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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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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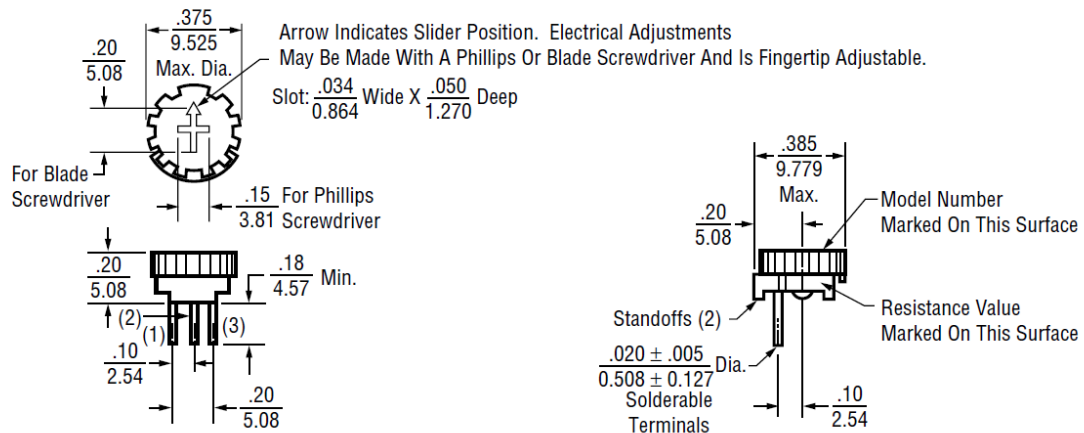
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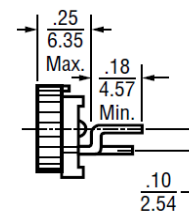
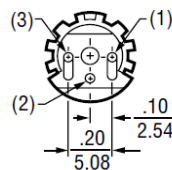


### TOP ADJUSTMENT (Inch/mm)

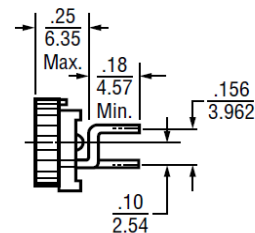
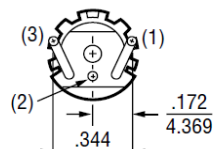
Model 91A



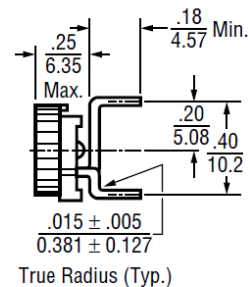
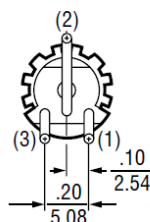
Model 91B



Model 91C



Model 91E



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Calexico, CA 92231

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### SIDE ADJUSTMENT (Inch/mm)

Model 91T



Model 91V



Model 91W



Model 91X



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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

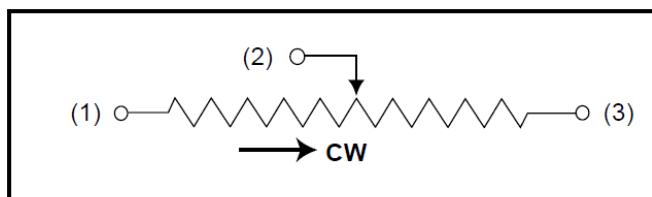
Standard: Boxes  
Capacity = 100 Units

### ORDERING INFORMATION

Standard:

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

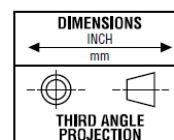
### CIRCUIT DIAGRAM



### 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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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

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