

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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TOP ADJUSTMENT (Inch/mm)



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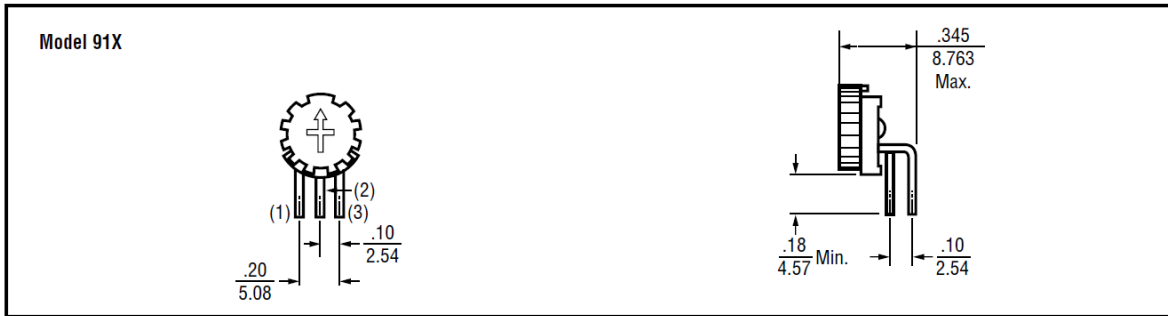
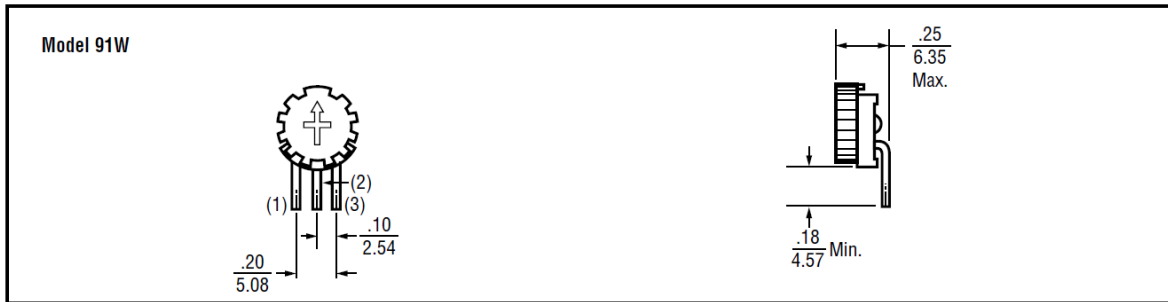
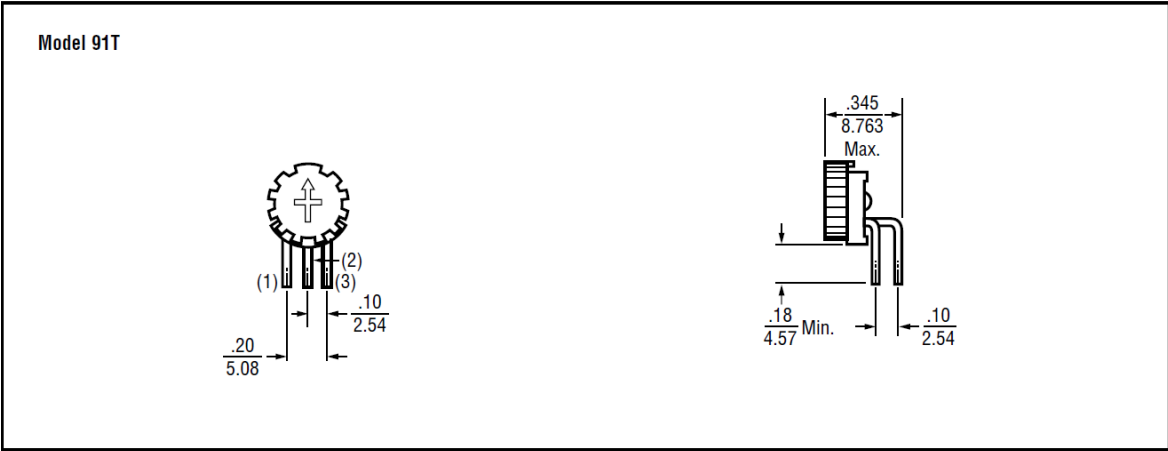
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SIDE ADJUSTMENT (Inch/mm)



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STANDARD RESISTANCE VALUES, OHMS

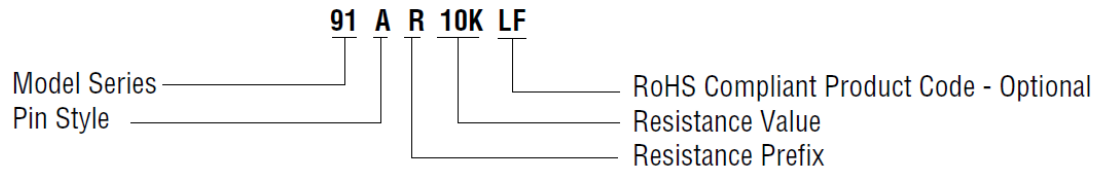
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|-----|-----|-----|------|------|
| 10 | 200 | 5K | 50K | 500K |
| 20 | 500 | 10K | 100K | 1Meg |
| 50 | 1K | 20K | 200K | 2Meg |
| 100 | 2K | 25K | 250K | |

PACKAGING

Standard: Boxes
Capacity = 100 Units

ORDERING INFORMATION

Standard:



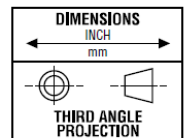
CIRCUIT DIAGRAM



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 = ± .01 inches (.25mm)
Angular = ± 2 degrees



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