# Multi-Turn Trimmer

## Model 66

**Features:**

- 3/8” square
- Cermet



## Electrical

| | |
|---|---|
| Standard Resistance Range | 10 Ohms to 2 Megohms |
| Standard Resistance Tolerance | ±10% (<100 Ohms = ±20%) |
| Input Voltage | 200 Vdc Max. or rms not to exceed power rating |
| Slider Current | 100 mA Max. or within rated power, whichever is less |
| Power Rating | 0.5 Watts at 70°C derating to 0 at 125°C |
| End Resistance | 2 Ohms Max. |
| Actual Electrical Travel | 20 turns nominal |
| Dielectric Strength | 1,000 Vrms |
| Insulation Resistance | 1,000 Megohms Min. |
| Resolution | Essentially infinite |
| Contact Resistance Variation | 1% or 1 Ohm Max., whichever is greater |

## Environmental

| | |
|---|---|
| Seal | 85°C Fluorinert® (No Leaks) |
| Temperature Coefficient | ±100 ppm/°C (<100 Ohms = ±250 ppm/°C) |
| Operating Temperature Range | –65°C to +150°C |
| Thermal Shock | Five cycles –65°C to +150°C (1% ΔRT, 1% ΔVR) |
| Moisture Resistance | Ten 24 hour cycles (1% ΔRT, IR 1,000 Megohms Min.) |
| Shock | 6 ms sawtooth, 100 G’s (1% ΔRT, 1% ΔVR) |
| Vibration | 20 G’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 | 1,000 hours at 70°C & 0.5 Watts (2% ΔRT) |
| Resistance to Solder Heat | 260°C for 10 sec. (1% ΔRT) |

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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## Mechanical

| | |
|---|---|
| Mechanical Stops | Clutch action, both ends |
| Torque, Starting | 5 oz.-in. Max. (0.035 N-m) |
| Weight | 0.04 oz. nominal (1.1 grams) |

## Packaging Information

Standard (no code): Boxes. Capacity = 100 units for 66W. 50 units for all other pin styles.

Option (TR code, available for 66W & 66X only): Tape & Reel. All units oriented with #1 pin to the right of the direction of feed.

| | | |
|---|---|---|
| Tape | Width = | 18 mm |
| | Sprocket = | Single hole, 0.050" spacing |
| | Capacity = | 1,000 units |
| | Seat plane to centerline of sprocket hole = | 0.71" (18 mm) |
| Reel | Diameter = | 14" (363 mm) |

Option (AP code, available for 66X & 66W only): Ammo Pack. All units oriented with #1 pin to the right of the direction of feed.

| | | |
|---|---|---|
| Ammo | Tape Fold = | 12" (305 mm) |
| | Box = | 1.8" x 13" x 10" (46 mm x 330 mm x 254 mm) |

Option (TB code): Tubes. All units oriented with #1 pin to same side. Tube capacity = 50 units.

| | Pin Style | P | W | X |
|---|---|---|---|---|
| Dimensions | Width = | 0.57" | 0.28" | 0.28" |
| | Height = | 0.66" | 0.93" | 0.93" |
| | Length = | 20.9" | 20.6" | 24.4" |

## Ordering Information

**66 P F R 10K LF XX**

- 66 — Model Series
- P — Pin Style
- F — Optional 0.70" lead length for AP & TR packaging, pin style W & X only
- R — Resistance Prefix
- 10K — Resistance Value
- LF — Optional RoHS compliant product code
- XX — Packaging Option:
  - no code = Box (standard)
  - TR = Tape & Reel (Pin Styles W, X only)
  - AP = Ammo Pack
  - TB = Tubes (Pin Styles P, W, X only)

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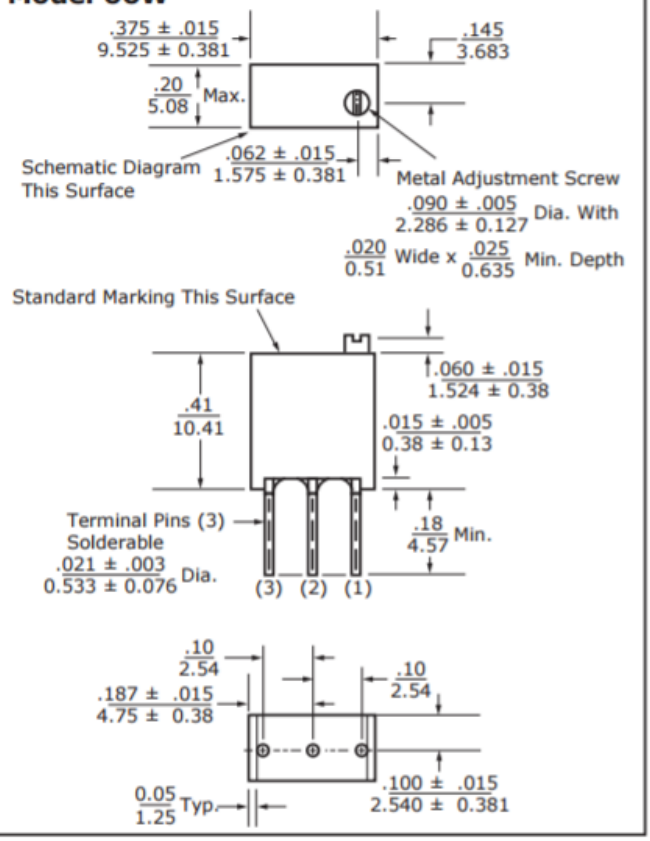
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## Outline Drawings

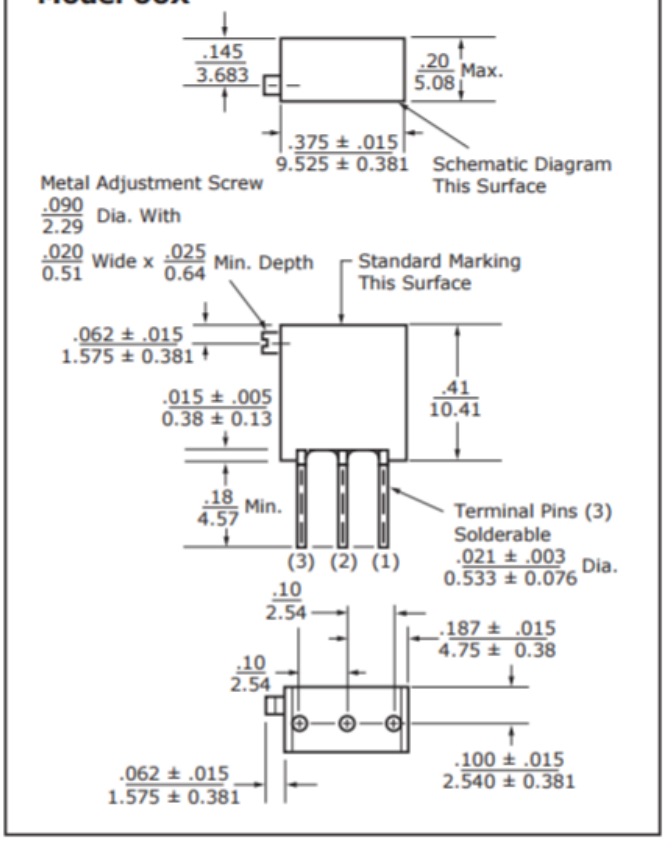
### TOP ADJUSTMENT

**Model 66W**



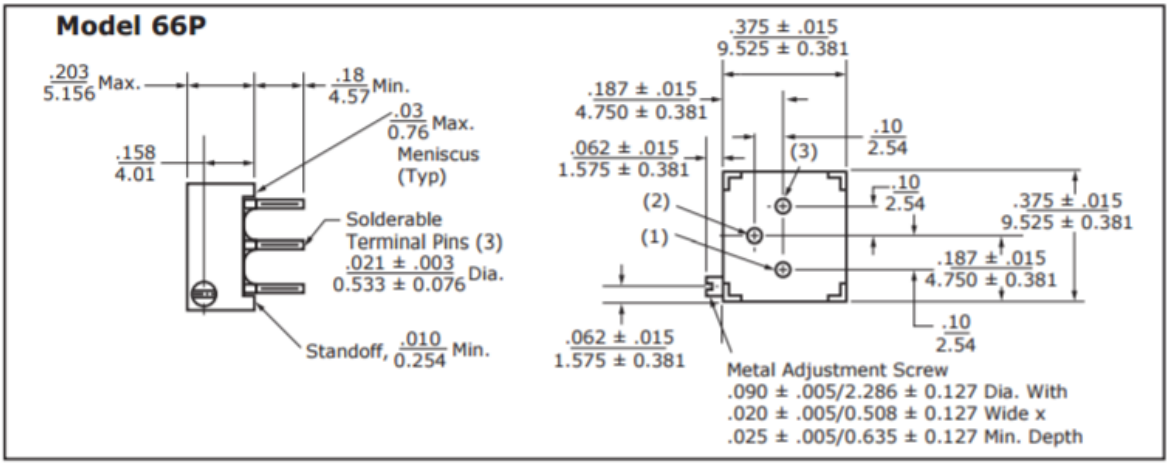

### SIDE ADJUSTMENT

**Model 66X**




### SIDE ADJUSTMENT

**Model 66P**



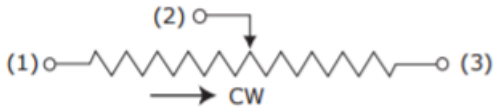

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## Circuit Diagram




## Standard Resistance Values

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

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