Model 66 3/8" Square Multiturn Cermet Trimming Potentiometer



ELECTRICAL

| Standard Resistance Range | 10 Ohms to 2 Megohms |
|-------------------------------|--|
| Standard Resistance Tolerance | $\pm 10\% (<100 \text{ Ohms} = \pm 20\%)$ |
| 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 | | |
|-----------------------------|---|--|
| Temperature Coefficient | $\pm 100 \text{ ppm/°C} (<100 \text{ Ohms} = \pm 250 \text{ ppm/°C})$ | |
| Operating Temperature Range | -65°C to +150°C | |
| Thermal Shock | Five cycles -65 °C to $+150$ °C (1% Δ RT, 1% Δ VR) | |
| 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 | xposure 250 hours at 125°C (2% ΔRT, 2% ΔVI | |
| 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) | |

MECHANICAL

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

Specifications subject to change without notice. Fluorinert® is a registered trademark of 3M Company.

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June 3, 2010



Model 66

PACKAGING

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) | |

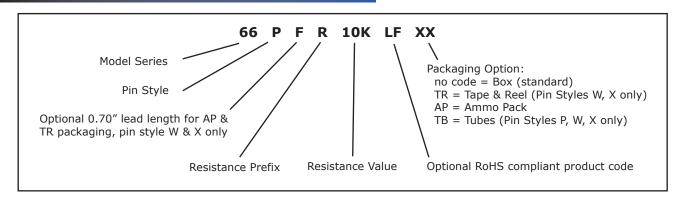
Option (AP code, available for 66X & 66W only): Ammo Pack. All units oriented with #1 pin to the right of the direction of feed.

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

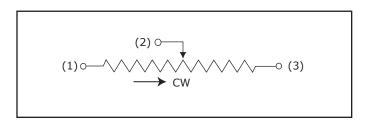
Option (TB code): Tubes. All units oriented with #1 pin to same side. Tube capacity = 50 units.

| | Pin Style | Р | w | х |
|------------|-----------|-------|-------|-------|
| Dimensions | Width = | 0.57" | 0.28" | 0.28" |
| | Height = | 0.66" | 0.93" | 0.93″ |
| | Length = | 20.9" | 20.6" | 24.4" |

ORDERING INFORMATION



CIRCUIT DIAGRAM



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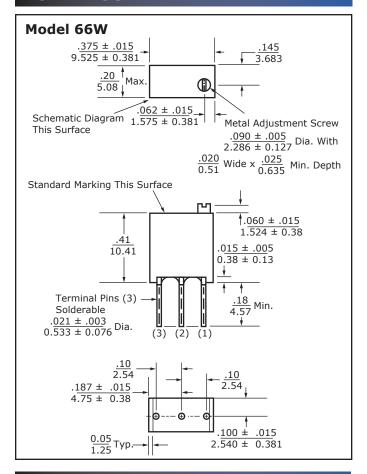
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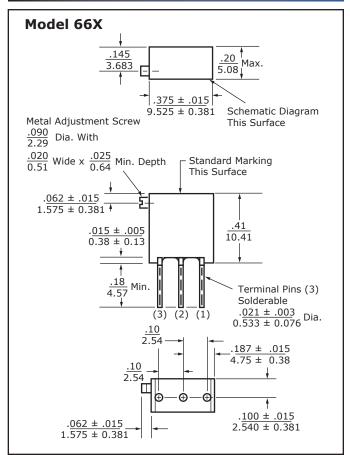
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Model 66

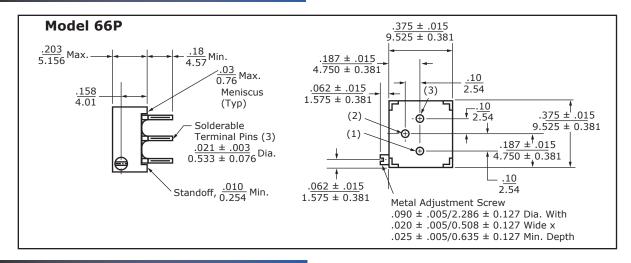
TOP ADJUSTMENT



SIDE ADJUSTMENT



SIDE ADJUSTMENT



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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