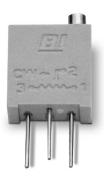
Model 66 3/8" Square Multiturn Cermet Trimming Potentiometer



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	$\pm 100 \text{ ppm/°C} (< 100 \text{ Ohms} = \pm 250 \text{ ppm/°C})$
Operating Temperature Range	-65°C to +150°C
Thermal Shock	Five cycles -65° C to $+150^{\circ}$ C (1% Δ RT, 1% Δ VR)
Moisture Resistance	Ten 24 hour cycles (1% Δ RT, 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)

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.





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.

	Таре	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)

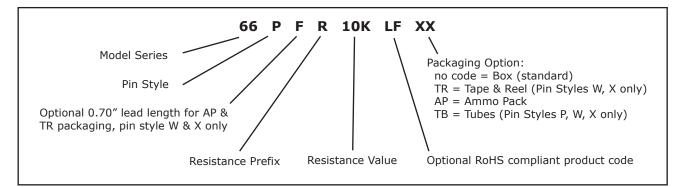
Option (AP code, available for 66X & 66W only): Ammo Pack. All units oriented with #1 pin to the right of the direction of feed.

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

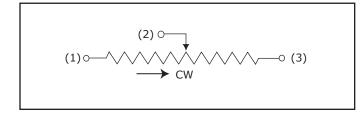
Option (TB code): Tubes. All units oriented with #1 pin to same side. Tube capacity = 50 units.

	Pin Style	Р	w	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



CIRCUIT DIAGRAM



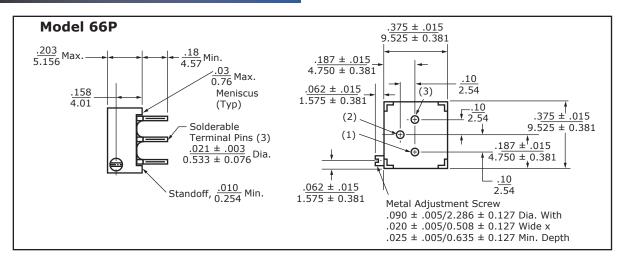
BI Technologies Corporation 4200 Bonita Place, Fullerton, CA 92835 USA Phone: 714 447 2345 Website: www.bitechnologies.com June 3, 2010 Model 66 page 2 of 3



Model 66

TOP ADJUSTMENT SIDE ADJUSTMENT Model 66X Model 66W $.\frac{375 \pm .015}{9.525 \pm 0.381}$.145 3.683 .145 .20 .20 Max. 3.683 Max. 5.08 5.08 $.375 \pm .015$.062 ± .015 Schematic Diagram 1.575 ± 0.381 $9.\overline{525 \pm 0.381}$ Schematic Diagram Metal Adjustment Screw Metal Adjustment Screw This Surface This Surface $\frac{.090 \pm .005}{2.286 \pm 0.127}$ Dia. With $\frac{.090}{2.29}$ Dia. With $\frac{.020}{0.51}$ Wide x $\frac{.025}{0.635}$ Min. Depth $\frac{.020}{0.51}$ Wide x $\frac{.025}{0.64}$ Min. Depth Standard Marking This Surface Standard Marking This Surface $.062 \pm .015$ P^L 1.575 ± 0.381 4 1.060 ± .015 1.524 ± 0.38 .41 .015 ± .005 41 10.41 0.38 ± 0.13 .0<u>15 ± .00</u>5 10.41 ŧ 0.38 ± 0.13 ŧ .18 ŧ Min. <u>.18</u> ___ Min. Terminal Pins (3) Terminal Pins (3) 4.57 Solderable Solderable 4.57 $.\frac{021 \pm .003}{0.533 \pm 0.076}$ Dia. .<u>021 ± .003</u> (3) (2) (1) 0.533 ± 0.076 Dia. <u>.10</u> 2.54 (3) (2) (1).187 ± .015 .10 4.75 ± 0.38 .10 2.54 .10 ŧ 2.54 .<u>187 ± .0</u>15 2.54 Π 4.75 ± 0.38 Ð Æ Œ ŧ æ $100 \pm .015$ $.062 \pm .015$ $100 \pm .015$ $2.\overline{540 \pm 0.381}$ 0.05 1.25 Typ.- 1.575 ± 0.381 2.540 ± 0.381

SIDE ADJUSTMENT



STANDARD RESISTANCE VALUES

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

