

# BI 66 Potentiometer Datasheet

<http://www.manuallib.com/bi/66-potentiometer-datasheet.html>

Standard Resistance Range 10 Ohms to 2 Megohms

Standard Resistance Tolerance  $\pm 10\%$  (<100 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

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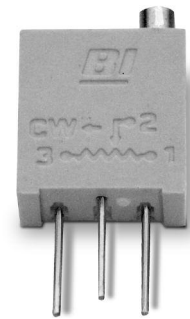
<http://www.manuallib.com>

# 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	±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)

#### 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)

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

**BI Technologies Corporation**  
4200 Bonita Place, Fullerton, CA 92835 USA  
Phone: 714 447 2345 Website: [www.bitechnologies.com](http://www.bitechnologies.com)  
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# 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)

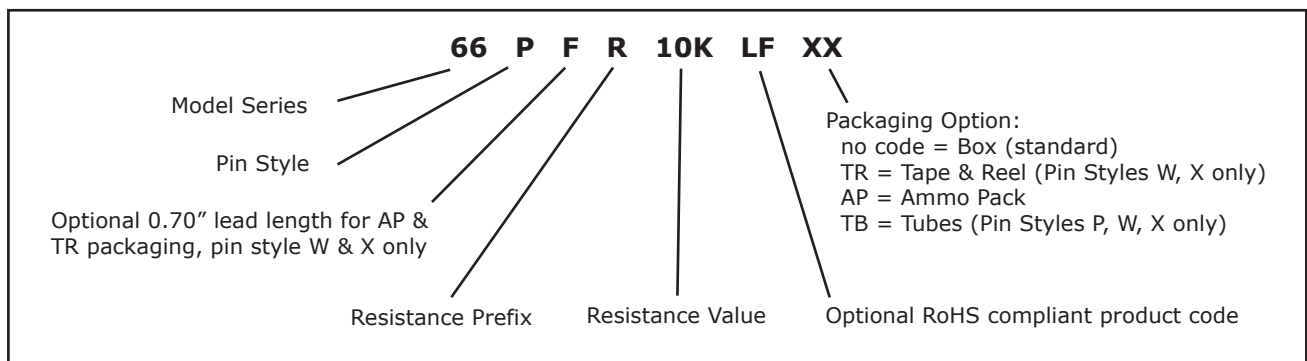
Option (AP code, available for 66X & 66W only): Ammo Pack. All units oriented with #1 pin to the right of the direction of feed.

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

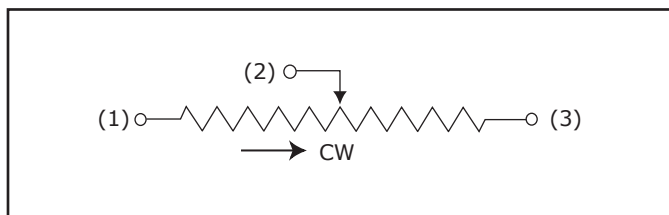
Option (TB code): Tubes. All units oriented with #1 pin to same side. Tube capacity = 50 units.

	Pin Style	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



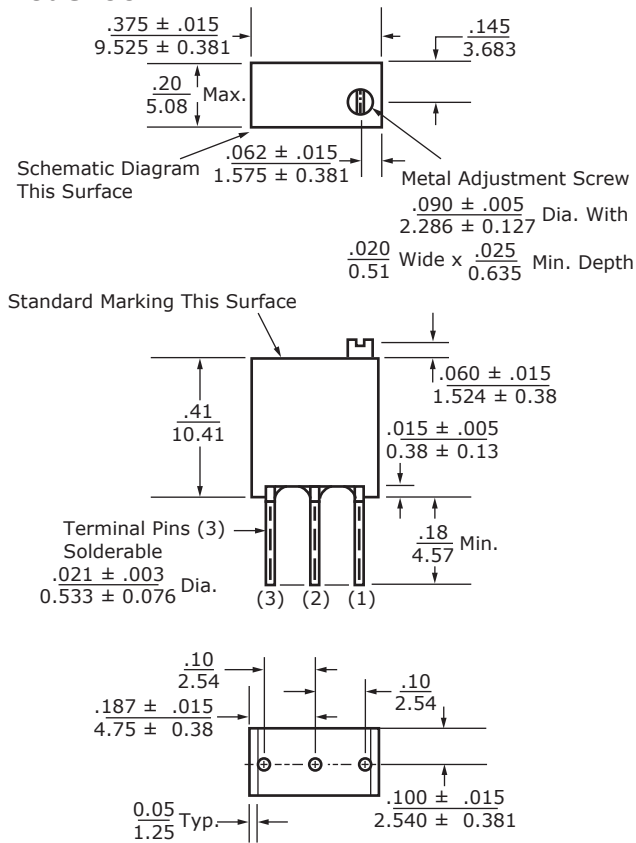
## CIRCUIT DIAGRAM



# Model 66

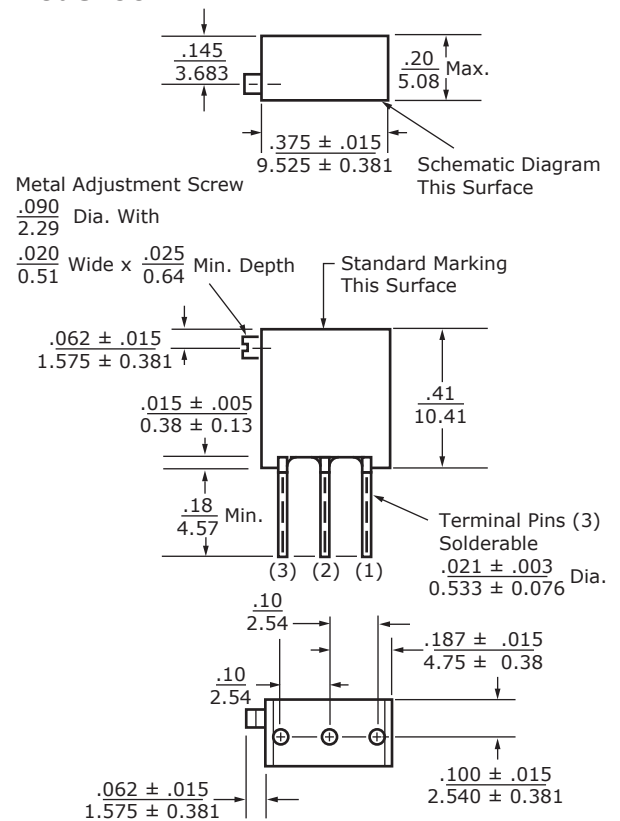
## TOP ADJUSTMENT

### Model 66W



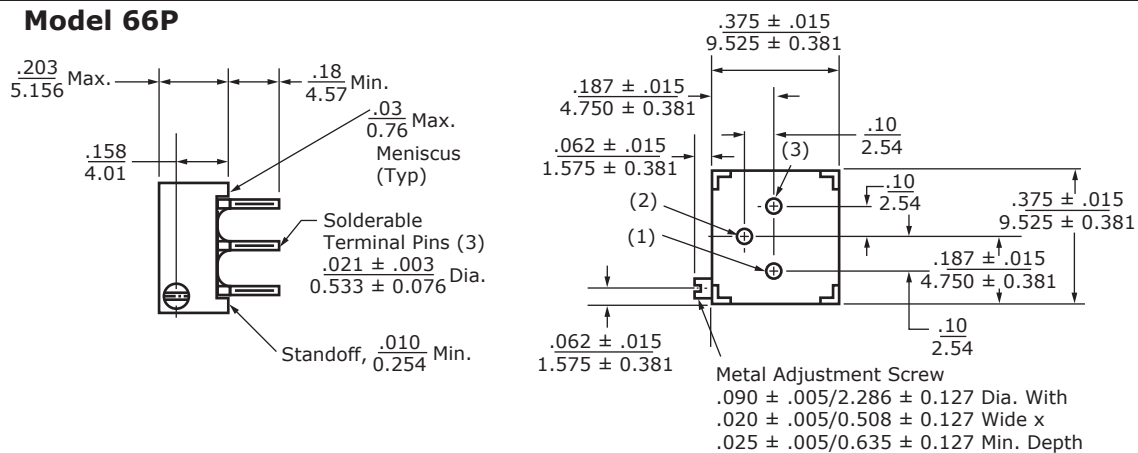
## SIDE ADJUSTMENT

### Model 66X



## SIDE ADJUSTMENT

### Model 66P



## 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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