64 Series

#### Features:

- 1/4" square
- Multi-turn
- Cermet



#### **Description:**

We offer a wide variety of trimming potentiometers in top and side adjust, through hole, and SMD packaging. Our trimming potentiometers are sealed to be compatible with aqueous PCB cleaning process. The cermet element printing technology offers high-reliability and long life.

The multi-turn trimmers from the BI Technologies brand are sealed to withstand aggressive water wash and have a very long life. These trimmers offer unmatched quality and reliability and feature package options that create efficient space saving solutions.

#### **Applications:**

- Any application requiring adjustability or calibration
- Medical
- Consumer electronics
- Air conditioners
- Food processors
- Smoke detectors
- Dishwaters
- Computer monitors

### ELECTRICAL

Standard Resistance Range, Ohms	10 to 1Meg
Standard Resistance Tolerance	±10%
Input Voltage, Maximum	200Vdc or rms not to exceed power rating
Slider Current, Maximum	100mA or within rated power, whichever is less
Power Rating, Watts	0.25 at 85°C derating to 0 at 150°C
End Resistance, Maximum	2 Ohms
Actual Electrical Travel, Turns, Nominal	12
Dielectric Strength	900Vrms
Insulation Resistance, Minimum	1,000 Megohms
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	1% or 1 Ohms, whichever is greater

General Note

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### 64 Series



#### ENVIRONMENTAL

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	±100ppm/°C
Operating Temperature Range	–65°C to +150°C
Thermal Shock	5 cycles, -65°C to +150°C (1% ΔRT, 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (1% ∆RT, IR 1,000 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% $\Delta$ RT, 2% $\Delta$ VR)
Rotational Life	200 cycles (2% ΔRT)
Load Life at 0.25 Watts	1,000 hours at 85°C (2% ΔRT)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

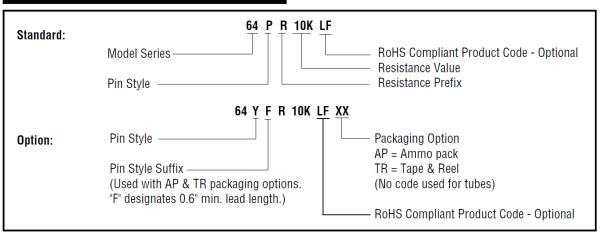
#### MECHANICAL

Mechanical Stops	Clutch action, both ends
Torque, Starting Maximum	3 ozin. (0.021 N-m)
Weight, Nominal	.014 oz. (0.40 grams)

#### STANDARD RESISTANCE VALUES, OHMS

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

#### ORDERING INFORMATION



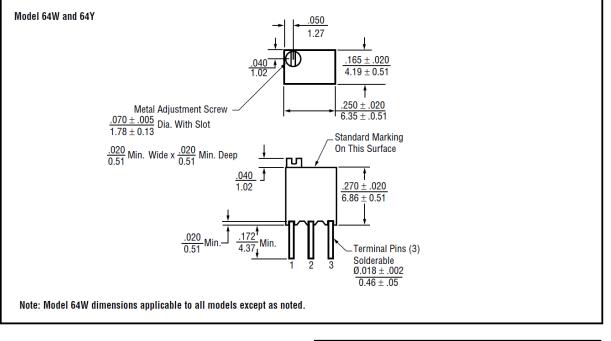
General Note

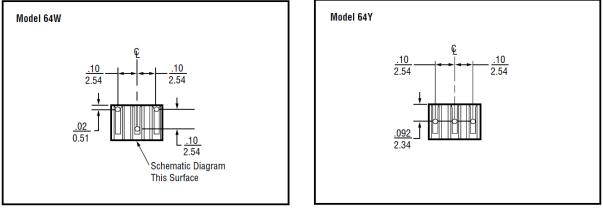
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## 64 Series



### TOP ADJUSTMENT (Inch/mm)





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## 64 Series



#### SIDE ADJUSTMENT (Inch/mm) Model 64X and 64Z 040. 1.02 .040 Standard Marking 1.02 On This Surface 050 1.27 2 3 1 Model 64Z Model 64X <u>.10</u> 2.54 <u>.10</u> 2.54 .10 .10 2.54 2.54 .02 0.51 .10 <u>.092</u> 2.34 2.54 Schematic Diagram This Surface Model 64P -<u>.172</u> Min. 4.37 $.175\pm.020$ $\frac{.250 \pm .020}{6.35 \pm 0.51}$ $4.45 \pm 0.51$ G .040 .10 .10 1.02 2.54 2.54 3 Standard Marking $.250 \pm .020$ 2 Ę On This Surface $6.35 \pm 0.51$ 1 .10 0.<u>15</u> 2.54 0.38

General Note

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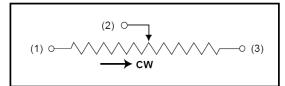
## 64 Series



#### PACKAGING

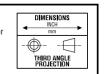
Standard:	Tubes				
	All units oriented with #1 pin to same side.				
		Pin Style		P,W,Y	X,Z
	Magazine	Width	=	0.38" (9.65 mm)	0.38" (9.65 mm)
		Height	=	0.62" (15.75mm)	0.62" (15.75mm)
		Length	=	14.5" (368 mm)	16.9" (429 mm)
		Capacity	=	50 Units	50 Units
		Seat Plane to Centerline of			
	Tana	Sprocket Hole	=	.71" (18 mm)	
	Tape	Width	=	18 mm	oping
		Sprocket	=	Single Hole .50" sp	acing
	Deal	Capacity	=	1,000 Units	
	Reel	Diameter	=	14" (363 mm) 12"	
	A 100 100 0				
	Ammo	Tape Fold	=	. =	
	Ammo	Tape Fold Box	=	1.8" x 13" x 10" (46mm x 330mm x	054

#### 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 =  $\pm$  .01 inches (.25mm) Angular =  $\pm$  2 degrees

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64PR10K 64WR100 64WR100K 64WR100KLF 64WR10K 64WR1K 64WR1K 64WR200 64WR200K 64WR200KLF 64WR20K 64WR20KLF 64WR2K 64WR500 64WR500K 64WR50K 64WR5K 64XR100K 64XR10K 64XR1K 64XR20K 64XR2K 64XR50K 64XR5K 64YR10K 64YR20K 64YR5K 64PR10KLF 64WR10KLF 64WR10 64WR20 64WR250K 64WR25K 64WR50 64XR10 64XR100 64XR20 64XR200 64XR200K 64XR250K 64XR25K 64XR50 64XR500 64XR500K 64YR2K 64PR100LF 64PR100KLF 64PR1KLF 64PR20LF 64PR200LF 64PR20KLF 64PR250KLF 64PR50LF 64PR500LF 64PR50KLF 64PR5KLF 64WR1MEGLF 64YR100KLF 64YR10KLF 64YR200KLF 64YR20KLF 64YR2KLF 64YR500LF 64YR50KLF 64YR5KLF 64ZFR200LFTR 64ZR20KLF 64ZR200LFTR 64ZR200LF 64YR1KLF 64WR20LF 64XR50KLF 64WR10LF 64WR2MLF 64WR1KLF 64XR200KLF 64XR1M 64XR2M 64WR1MLF 64WR200LF 64WR50LF 64XR500LF 64XR250KLF 64WR250KLF 64WR250KLF 64WR50KLF 64XR200LF 64WR25KLF 64WR100LF 64WR500LF 64WR50LF 64XR250KLF 64XR500LF 64WR250KLF 64WR50KLF 64XR200LF 64WR25KLF 64WR100LF 64WR200LF 64WR50LF 64XR20KLF 64XR250KLF 64WR1ME 64XR1KLF 64WR200LF 64XR2MLF 64WR100LF 64WR100LF 64WR50LF 64XR20KLF 64XR20KLF 64WR1MLF 64XR1KLF 64WR20LF 64XR2MLF 64XR1MLF 64XR10KLF 64XR500LF 64WR50LF 64XR20KLF 64XR20KLF 64WR1MLF 64XR1KLF 64WR2M 64XR2MLF 64XR1MLF 64XR10KLF 64XR500LF 64WR50LF 64WR500KLF 64XR20KLF 64WR1MLF