### 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

# 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% ΔRT, 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% ΔRT, 2% ΔVR)
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)

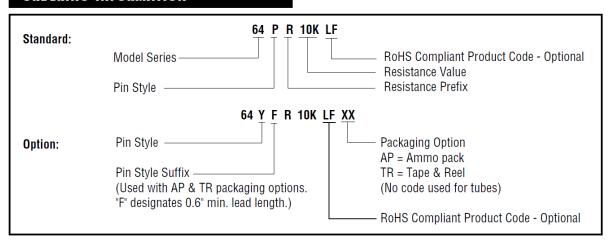
#### MECHANICAL

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

10	100	1K	10K	50K	250K	
20	200	2K	20K	100K	500K	
50	500	5K	25K	200K	1Meg	
					3	

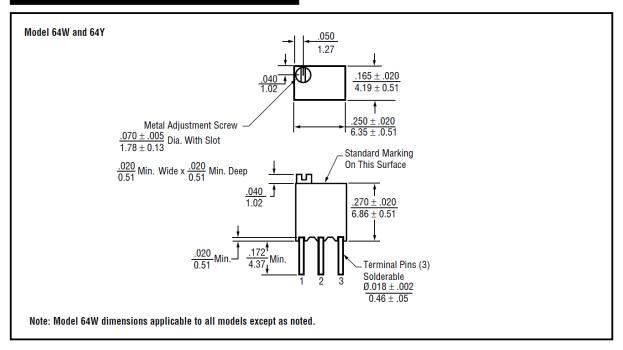
### ORDERING INFORMATION

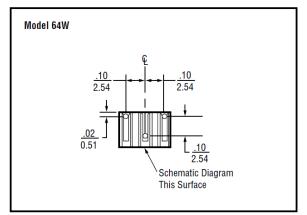


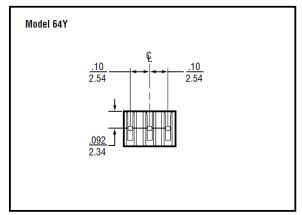
### 64 Series



### TOP ADJUSTMENT (Inch/mm)



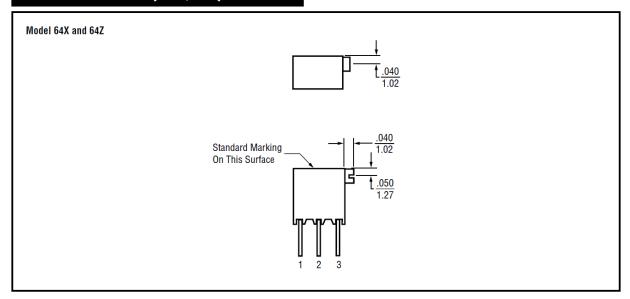


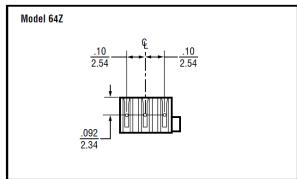


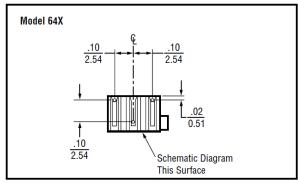
### 64 Series

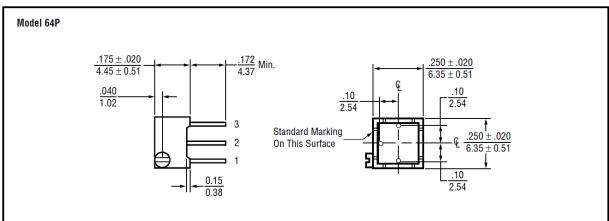


### SIDE ADJUSTMENT (Inch/mm)









### 64 Series



### **PACKAGING**

Standard: Tubes

All units oriented with #1 pin to same side.

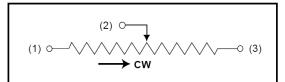
	Pin Style		P,W,Y	X,Z
Magazine	Width	=	0.38" (9.65 mm)	0.38" (9.65 mm)
	Height	=	0.62" (15.75mm)	0.62" (15.75mm)
	Length	=	14.5" (368 mm)	16.9" (429 mm)
	Capacity	=	50 Units	50 Units

**Option:** Tape & Reel, Ammo Pack (Available only for 64Y and 64Z)

All units oriented with #1 pin to the right of the direction of feed.

	Seat Plane to Centerline of Sprocket Hole	=	.71" (18 mm)
Tape	Width	=	18 mm
	Sprocket	=	Single Hole .50" spacing
	Capacity	=	1,000 Units
Reel	Diameter	=	14" (363 mm)
Ammo	Tape Fold	=	12"
	Box	=	1.8" x 13" x 10"
			(46mm x 330mm x 254mm)

### 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



## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### TT Electronics:

64WR100KLF 64WR200KLF 64WR20KLF 64PR10KLF 64WR10KLF 64YR2K 64PR100LF 64PR100KLF
64PR1KLF 64PR20LF 64PR200LF 64PR20KLF 64PR250KLF 64PR50LF 64PR500LF 64PR50KLF 64PR50KLF
64WR1MEGLF 64YR100KLF 64YR10KLF 64YR200KLF 64YR20KLF 64YR20KLF 64YR50KLF 64YR50KLF
64YR5KLF 64ZFR200LFTR 64ZR20KLF 64ZR200LF 64YR1KLF 64WR20LF 64XR50KLF 64WR10LF 64WR1KLF
64XR200KLF 64WR200LF 64WR20KLF 64XR500LF 64XR250KLF 64WR250KLF 64WR250KLF 64XR200LF
64WR25KLF 64WR100LF 64WR500LF 64WR50LF 64XR20KLF 64XR50LF 64XR1KLF 64XR10KLF 64XR500KLF
64WR500KLF 64XR2KLF 64XR100LF 64XR20LF 64XR25KLF 64XR100KLF 64XR10LF 64WR5KLF 64XR50KLF
64ZR1KLF 64PR1MEGLF 64YFR50KLFAP 64YR25KLF 64ZR50KLF 64ZR20KLF 64ZR20KLF 64ZR100LF
64YFR2KLFTR 64YR50LF 64ZR20LF 64YR20LF 64YR20LFTR 64ZR50KLF 64ZR250KLF 64ZR20KLF
64ZR10KLF 64ZR10LF 64PR10LF 64PR25KLF 64YR100LF 64ZR2KLF 64ZR25KLF 64ZR25KLF 64ZR20KLF
64ZR10KLF 64ZR10LF 64PR10LF 64PR25KLF 64YR100LF 64PR2KLF 64ZR25KLF 64ZR25KLF 64YR100KLF
64ZR10KLF 64ZR10LF 64ZR10LF 64PR25KLF 64YR100LF 64PR2KLF 64ZR500LF 64ZR25KLF 64YR1MEGLF
64ZR10KLF 64ZR10LF 64ZR1MEGLF