

# MODEL 64

## 1/4" Square

### Multiturn

### Cermet Trimming

### Potentiometer

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#### 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

#### 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 0.5 Watts	1,000 hours at 85°C (2% ΔRT)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

#### MECHANICAL

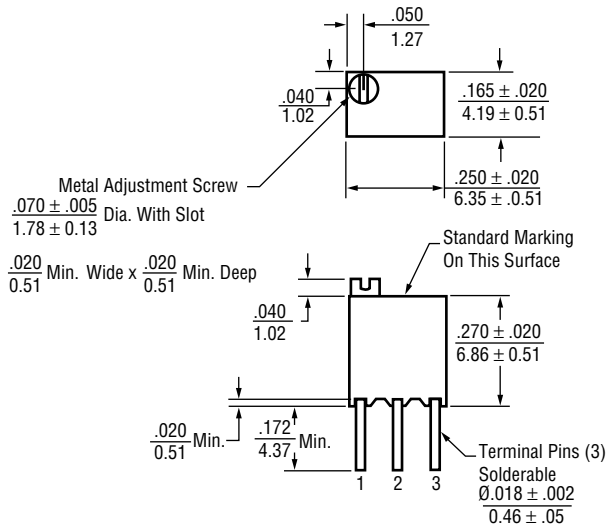
Mechanical Stops	Clutch action, both ends
Torque, Starting Maximum	3 oz.-in. (0.021 N-m)
Weight, Nominal	.014 oz. (0.40 grams)

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



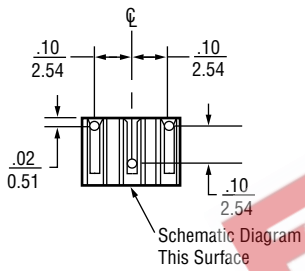
**TOP ADJUSTMENT (Inch/mm)**

Model 64W and 64Y

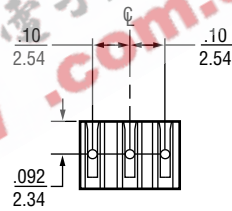


Note: Model 64W dimensions applicable to all models except as noted.

Model 64W



Model 64Y



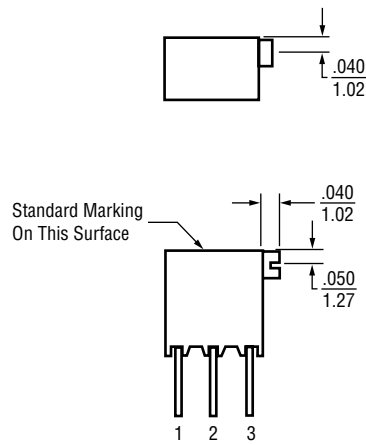
**STANDARD RESISTANCE VALUES, OHMS**

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

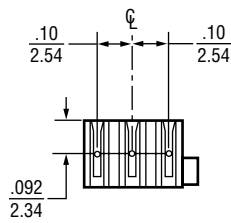
**SIDE ADJUSTMENT (Inch/mm)**

**1**

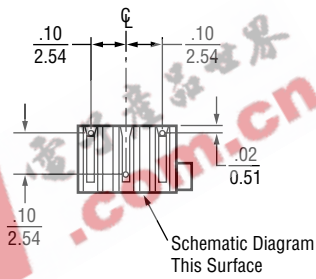
**Model 64X and 64Z**



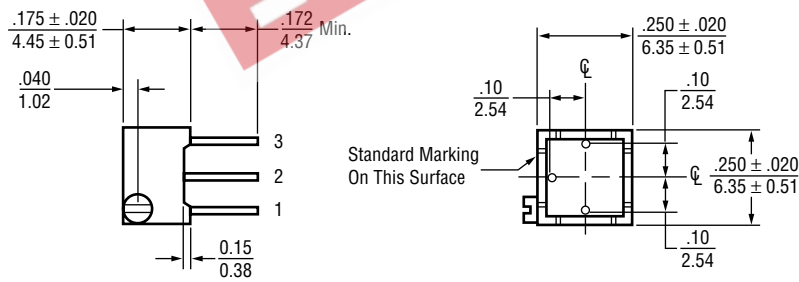
**Model 64Z**



**Model 64X**



**Model 64P**



## 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.

Tape	Seat Plane to Centerline of Sprocket Hole	=	.71" (18 mm)
	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)

## ORDERING INFORMATION

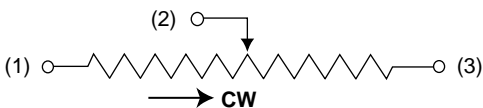
**Standard:**

Model Series **64** Pin Style **P** Resistance Value **R** Resistance Prefix **10K** RoHS Compliant Product Code - Optional **LF**

**Option:**

Pin Style **64 Y** Pin Style Suffix **F** (Used with AP & TR packaging options. "F" designates 0.6" min. lead length.) Resistance Value **R** Resistance Prefix **10K** Packaging Option **LF** (AP = Ammo pack, TR = Tape & Reel, No code used for tubes) **XX** RoHS Compliant Product Code - Optional

## 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 = ± .01 inches (.25mm)  
Angular = ± 2 degrees

