

# Multi-Turn Trimmer

## Model 64



### Features:

- 1/4" square
- Cermet



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

#### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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### Mechanical

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

### Packaging Information

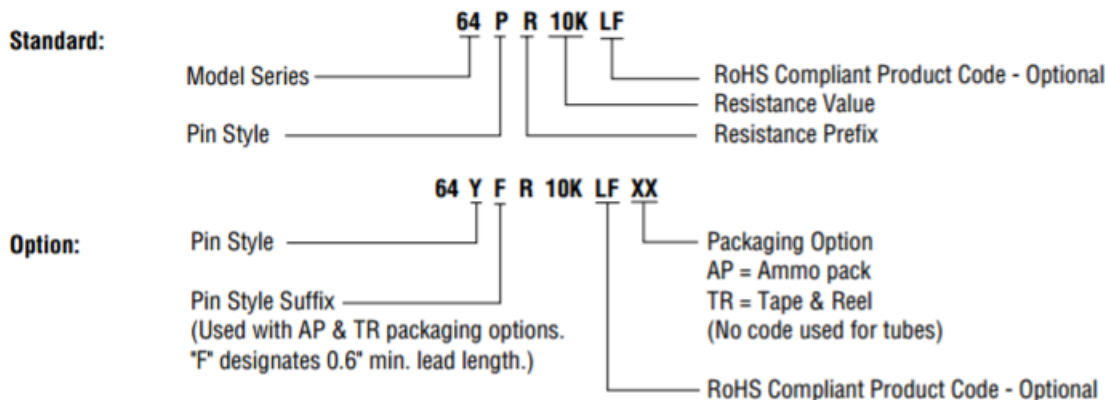
**Standard:** Tubes  
All units oriented with #1 pin to same side.

|          | 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<br>Centerline of<br>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"<br>(46mm x 330mm x 254mm) |

### Ordering Information



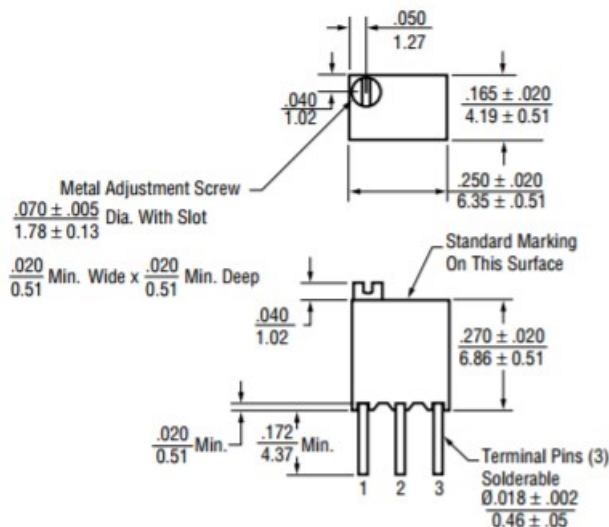
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### Outline Drawings

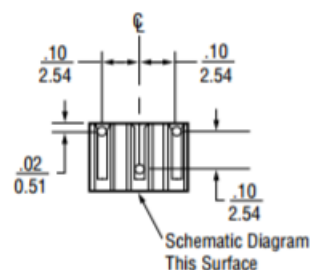
#### TOP ADJUSTMENT (Inch/mm)

Model 64W and 64Y

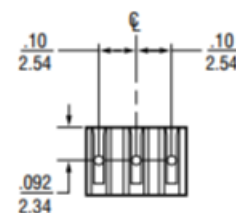


Note: Model 64W dimensions applicable to all models except as noted.

Model 64W

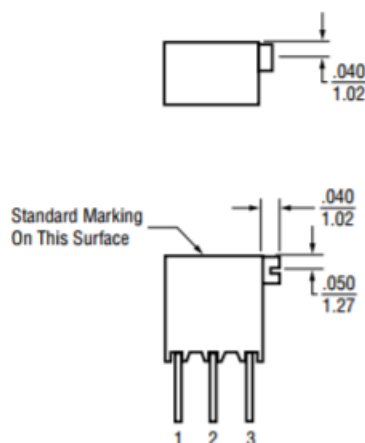


Model 64Y

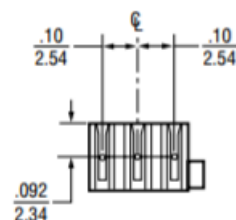


#### SIDE ADJUSTMENT (Inch/mm)

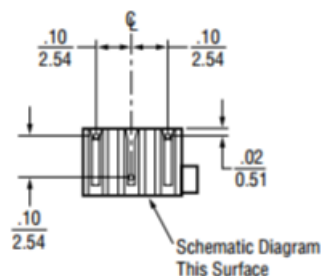
Model 64X and 64Z



Model 64Z



Model 64X

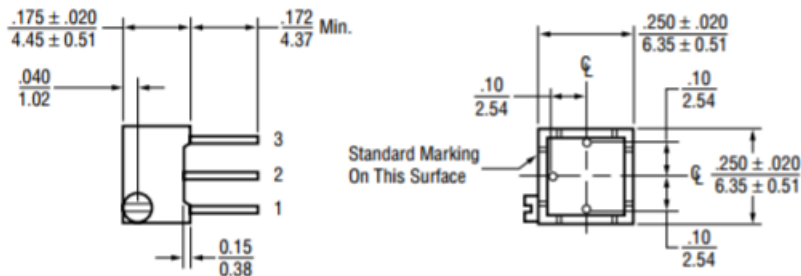


#### General Note

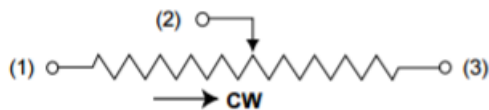
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Outline Drawings

Model 64P



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

**DIMENSIONS**  
INCH  
MM

**THIRD ANGLE PROJECTION**

Standard Resistance Values

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