

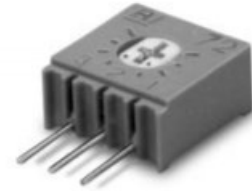
# Single Turn Trimmer

## Model 72



### Features:

- 3/8" square
- Single turn
- Cermet



### Electrical

|                                       |  |
|---------------------------------------|--|
| Standard Resistance Range, Ohms       | 10 to 2Meg                                     |
| Standard Resistance Tolerance         | ±10% (<100 Ohms = ±20%)                        |
| Input Voltage, Maximum                | 200 Vdc or rms not to exceed power rating      |
| Slider Current, Maximum               | 100mA or within rated power, whichever is less |
| Power Rating, Watts                   | 0.5 at 85°C derating to 0 at 125°C             |
| End Resistance, Maximum               | 2 Ohms   |
| Actual Electrical Travel, Nominal     | 244°   |
| Dielectric Strength                   | 900 Vrms                                       |
| Insulation Resistance, Minimum        | 1,000 Megohms                                  |
| Resolution                            | Essentially infinite                           |
| Contact Resistance Variation, Maximum | 1% or 1 Ohm, whichever is greater              |

### Environmental

|                                  |  |
|----------------------------------|--|
| Seal                             | 85°C Fluorinert® (No Leaks)                      |
| Temperature Coefficient, Maximum | ±100ppm/°C                                       |
| Operating Temperature Range      | -55°C to +125°C                                  |
| Thermal Shock                    | 5 cycles, -55°C to +125°C (1% ΔRT, 1% ΔVR)       |
| Moisture Resistance              | Ten 24 hour cycles (1% ΔRT, IR 100 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 (3% ΔRT)                              |
| Load Life at 0.5 Watts           | 1,000 hours at 70°C (2% ΔRT)                     |
| Resistance to Solder Heat        | 260°C for 10 sec. (1% ΔRT)                       |

### Mechanical

|                          |                       |
|--------------------------|-----------------------|
| Mechanical Stops         | Solid                 |
| Torque, Starting Maximum | 3 oz.-in. (0.021 N-m) |
| Weight, Nominal          | .025 oz. (0.70 grams) |

#### 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.

TT Electronics | BI Technologies  
4200 Bonita Place, Fullerton, CA USA 92835-1053 | Ph: +1 714-447-2300  
www.ttelectronics.com | sensors@ttelectronics.com

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### Packaging Information

**Standard:** Boxes  
Capacity = 100 Units

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

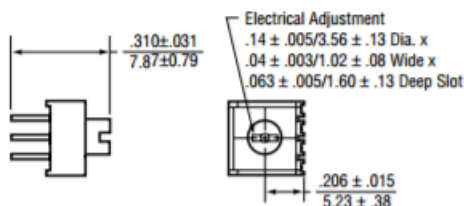
|          | Pin Style | P, PM      | X, XL, XW, RW |
|----------|-----------|------------|---------------|
| Magazine | Width     | = 0.47"    | 0.29"         |
|          | Height    | = 0.54"    | 0.76"         |
|          | Length    | = 20.5"    | 20.1"         |
|          | Capacity  | = 50 Units | 50 Units      |

**Option:** Tape & Reel, Ammo Pack (Available only for 72RW only)  
All units oriented with #1 pin to the right of the direction of feed.

|      |   |   |
|------|---|---|
|      | Seat Plane to Centerline of Sprocket Hole | = .71" (18.03 mm)                         |
| Tape | Width                                     | = 18 mm                                   |
|      | Sprocket                                  | = Single Hole .50" spacing                |
|      | Capacity                                  | = 1,000 Units                             |
| Reel | Diameter                                  | = 14" (356mm)                             |
| Ammo | Tape Fold                                 | = 12" (305mm)                             |
|      | Box                                       | = 1.8" x 13" x 10" (46mm x 330mm x 254mm) |

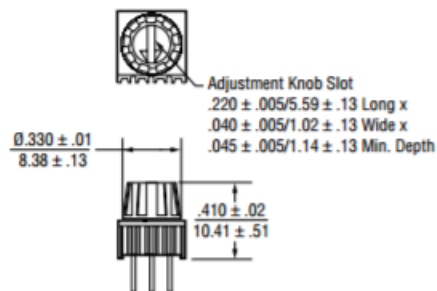
#### EXTENDED ROTOR OPTION (Inch/mm)

Available for all Model 72 pin styles:  
72PE, 72PLE, 72PME, 72PXE, 72RPXE, 72XE, 72RXE, 72XLE, 72RXLE, 72RWE, 72XWE, 72RXWE



#### ADJUSTMENT KNOB OPTION (Inch/mm)

Available options:  
72XT- Side Adjustment (See 72X for Pin Configuration)  
72PT- Top Adjustment (See 72P for Pin Configuration)



72PT Shown - Dimensions applicable to 72XT

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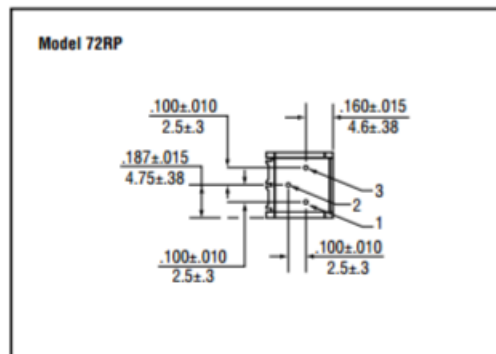
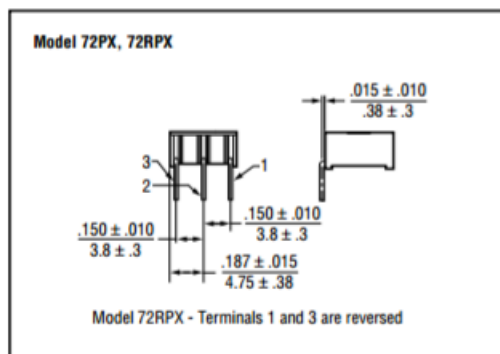
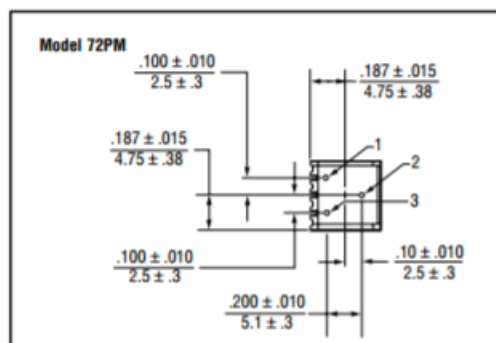
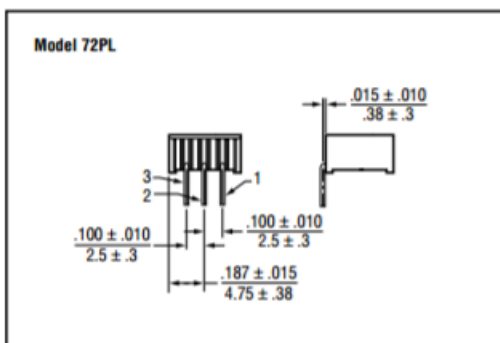
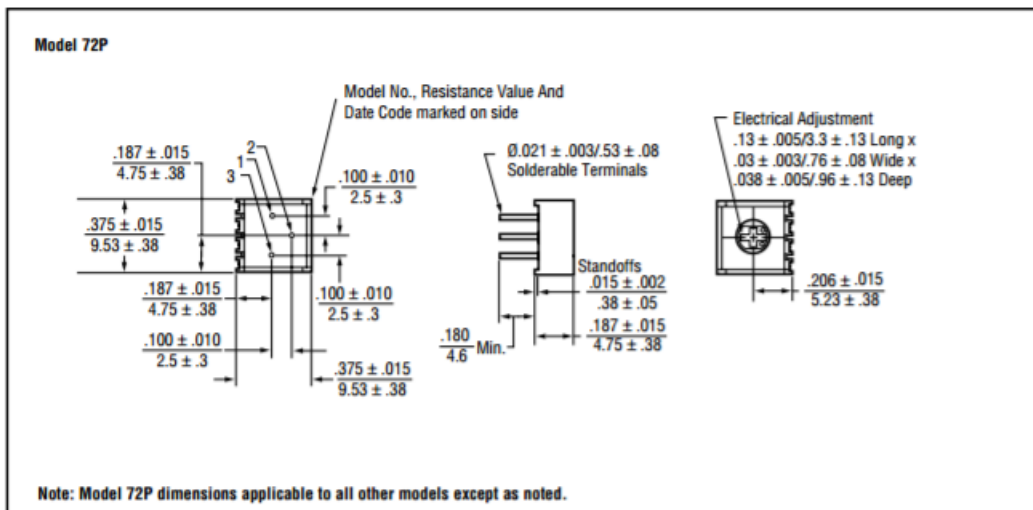
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# Single Turn Trimmer

## Model 72



### Outline Drawings—Top Adjustment

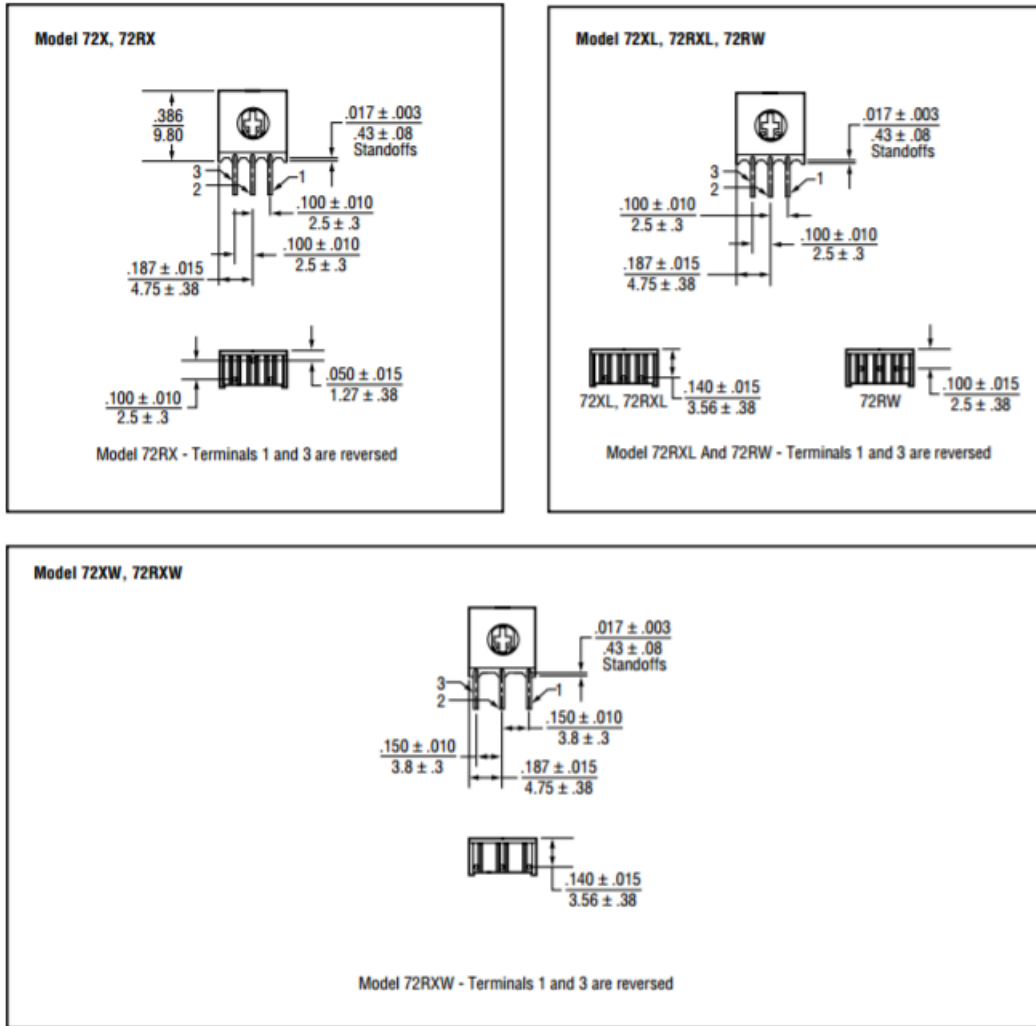


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### Outline Drawings—Side Adjustment



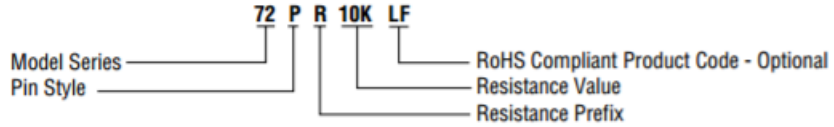
# Single Turn Trimmer

## Model 72

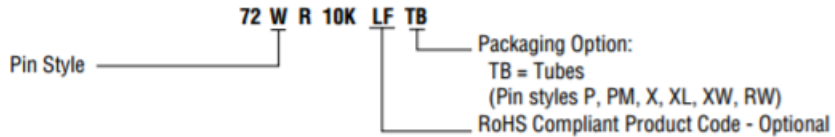


### Ordering Information

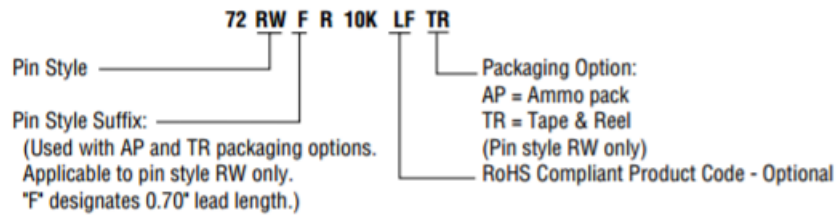
**Standard:**



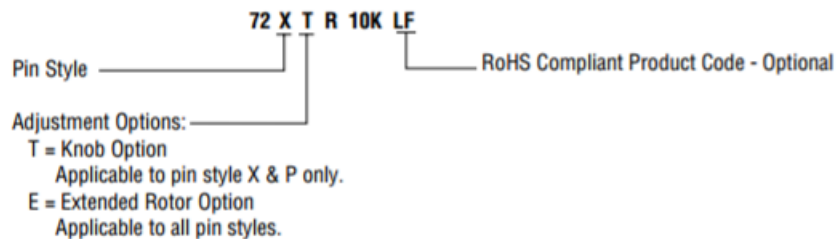
**Option:**



**Option:**



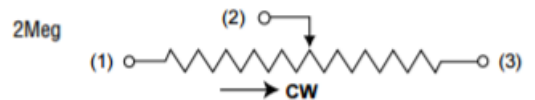
**Option:**



### Standard Resistance Values, Ohms

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

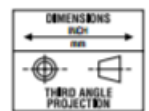
### Circuit Diagram



#### 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



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