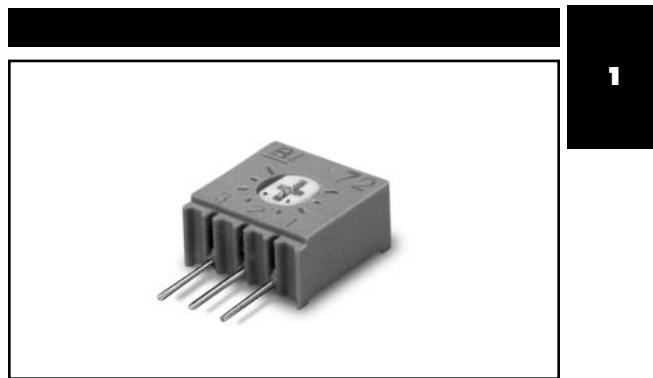


# MODEL 72

## 3/8" Square Single Turn Cermet Trimming Potentiometer



### ELECTRICAL

Standard Resistance Range, Ohms	10 to 2Meg
Standard Resistance Tolerance	$\pm 10\%$ (<100 Ohms = $\pm 20\%$ )
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	$\pm 100\text{ppm}/^\circ\text{C}$
Operating Temperature Range	-55°C to +125°C
Thermal Shock	5 cycles, -55°C to +125°C (1% $\Delta\text{RT}$ , 1% $\Delta\text{VR}$ )
Moisture Resistance	Ten 24 hour cycles (1% $\Delta\text{RT}$ , IR 100 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% $\Delta\text{RT}$ , 1% $\Delta\text{VR}$ )
Vibration	20G's, 10 to 2,000 Hz (1% $\Delta\text{RT}$ , 1% $\Delta\text{VR}$ )
High Temperature Exposure	250 hours at 125°C (2% $\Delta\text{RT}$ , 2% $\Delta\text{VR}$ )
Rotational Life	200 cycles (3% $\Delta\text{RT}$ )
Load Life at 0.5 Watts	1,000 hours at 70°C (2% $\Delta\text{RT}$ )
Resistance to Solder Heat	260°C for 10 sec. (1% $\Delta\text{RT}$ )

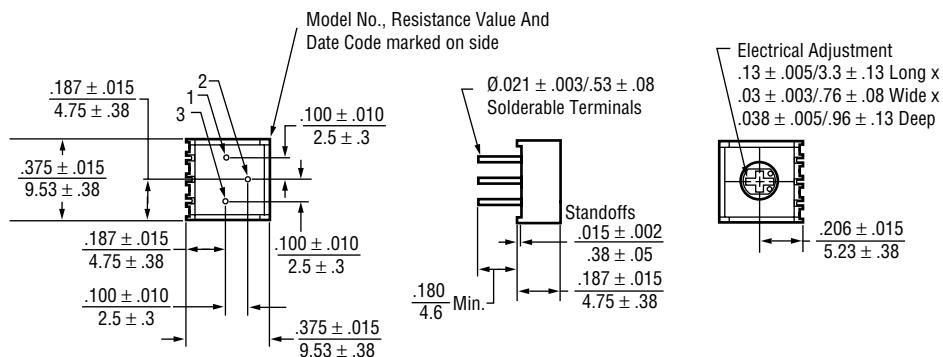
### MECHANICAL

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

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

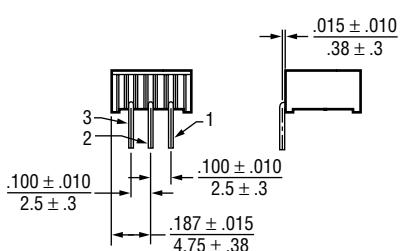
## TOP ADJUSTMENT (Inch/mm)

Model 72P

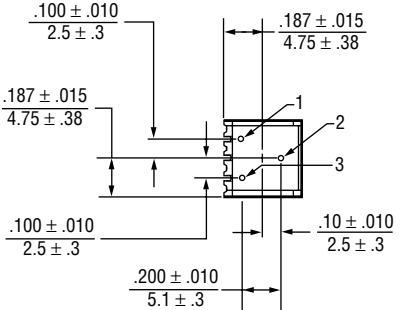


Note: Model 72P dimensions applicable to all other models except as noted.

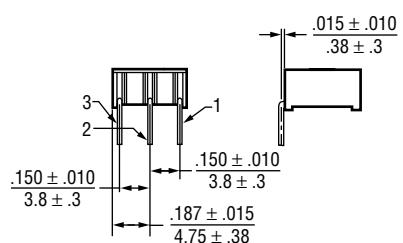
Model 72PL



Model 72PM

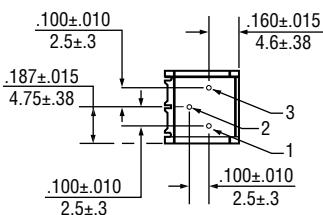


Model 72PX, 72RPX



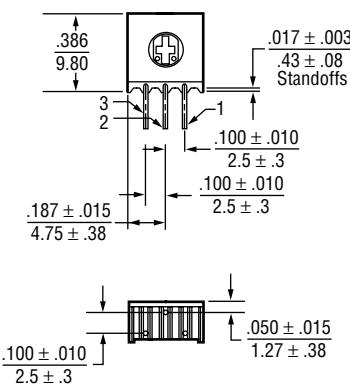
Model 72RPX - Terminals 1 and 3 are reversed

Model 72RP



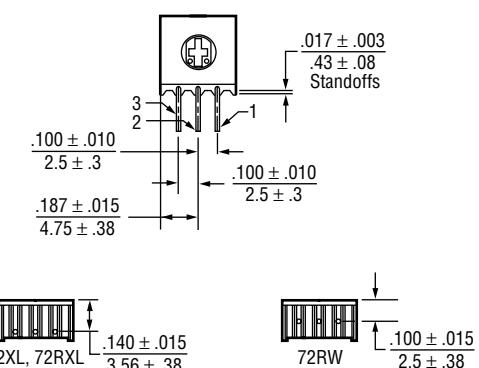
## SIDE ADJUSTMENT (Inch/mm)

Model 72X, 72RX



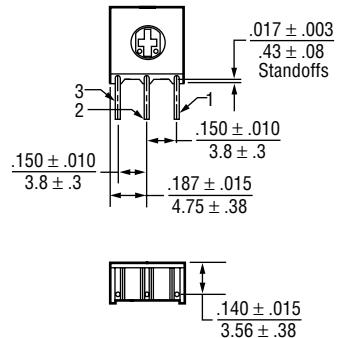
Model 72RX - Terminals 1 and 3 are reversed

Model 72XL, 72RXL, 72RW



Model 72RXL And 72RW - Terminals 1 and 3 are reversed

Model 72XW, 72RXW

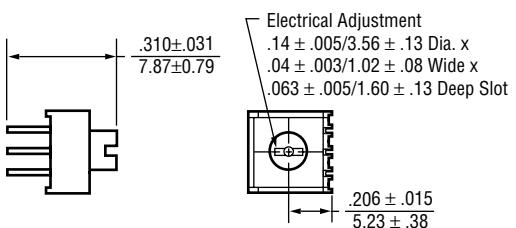


Model 72RXW - Terminals 1 and 3 are reversed

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

Available for all Model 72 pin styles:

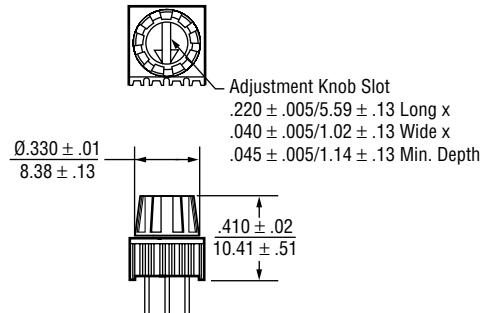
72PE, 72PLE, 72PME, 72PXE, 72RPXE, 72XE, 72RXE,  
72XLE, 72RXLE, 72RWE, 72XWE, 72RXWE

**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

**STANDARD RESISTANCE VALUES, OHMS**

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

**Standard:** Boxes  
Capacity = 100 Units

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

	<b>Pin Style</b>	<b>P, PM</b>	<b>X, XL, XW, RW</b>
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)

## ORDERING INFORMATION

### Standard:

72 P R 10K LF

Model Series \_\_\_\_\_ | RoHS Compliant Product Code - Optional  
Pin Style \_\_\_\_\_ | Resistance Value  
\_\_\_\_\_| Resistance Prefix

### Option:

72 W R 10K LF TB

Pin Style \_\_\_\_\_ | Packaging Option:  
\_\_\_\_\_| TB = Tubes  
(Pin styles P, PM, X, XL, XW, RW)  
\_\_\_\_\_| RoHS Compliant Product Code - Optional

### Option:

72 RW F R 10K LF TR

Pin Style \_\_\_\_\_ | Packaging Option:  
\_\_\_\_\_| Pin Style Suffix: AP = Ammo pack  
\_\_\_\_\_| (Used with AP and TR packaging options.) TR = Tape & Reel  
\_\_\_\_\_| Applicable to pin style RW only.  
\_\_\_\_\_| (Pin style RW only)  
\_\_\_\_\_| "F" designates 0.70" lead length.  
\_\_\_\_\_| RoHS Compliant Product Code - Optional

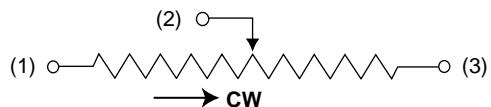
### Option:

72 X T R 10K LF

Pin Style \_\_\_\_\_ | RoHS Compliant Product Code - Optional

Adjustment Options: \_\_\_\_\_ |  
T = Knob Option  
Applicable to pin style X & P only.  
E = Extended Rotor Option  
Applicable to all pin styles.

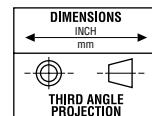
## CIRCUIT DIAGRAM



## 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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