

# MODEL 72

## 3/8" Square

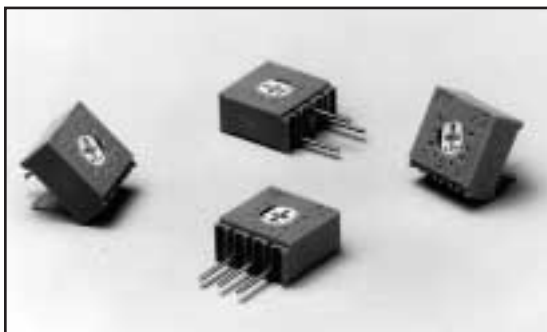
## Single Turn

## Cermet Trimming

## Potentiometer

Distributor Item

1



### 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

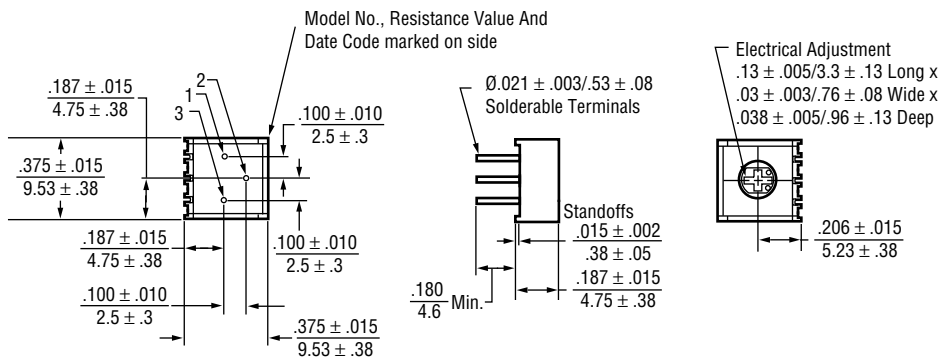
Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	±100ppm/°C
Operating Temperature Range	-55°C to +125°C
Thermal Shock	5 cycles, -55°C to +125°C (1% ΔRT, 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (1% ΔRT, IR 100 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% ΔRT, 1% ΔVR)
Vibration	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)

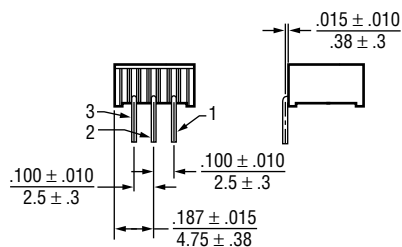
Fluorinert® is a registered trademark of 3M Company.  
Specifications subject to change without notice.

**Model 72P**

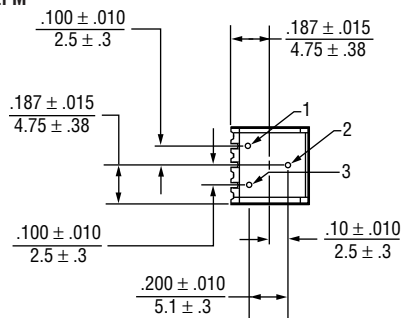


Note: Model 72P dimensions applicable to all other models except as noted

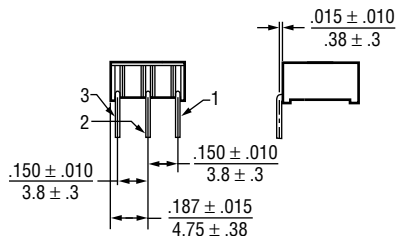
**Model 72PL**



**Model 72PM**

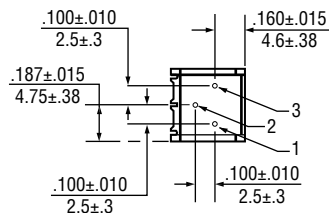


**Model 72PX, 72RPX**



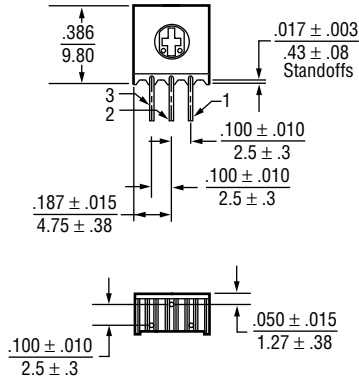
Model 72RPX - Terminals 1 and 3 are reversed

**Model 72RP**



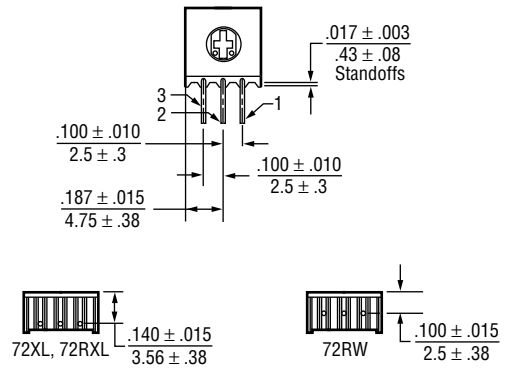
## SIDE ADJUSTMENT

### Model 72X, 72RX



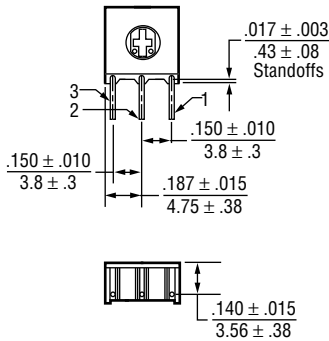
Model 72RX - Terminals 1 and 3 are reversed

### Model 72XL, 72RXL, 72RW



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

### Model 72XW, 72RXW



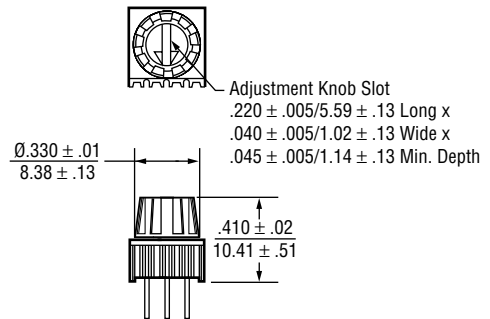
Model 72RXW - Terminals 1 and 3 are reversed

## ADJUSTMENT KNOB OPTION

Available options:

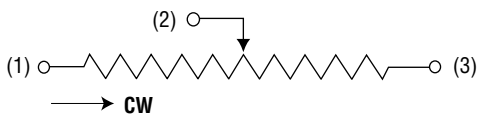
**72XT - Side Adjustment** (See 72X for Pin Configuration)

**72PT - Top Adjustment** (See 72P for Pin Configuration)



72PT Shown - Dimensions applicable to 72XT

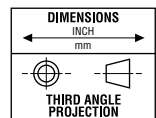
## CIRCUIT DIAGRAM



## 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



## STANDARD RESISTANCE VALUES, OHMS

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

## PACKAGING

**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

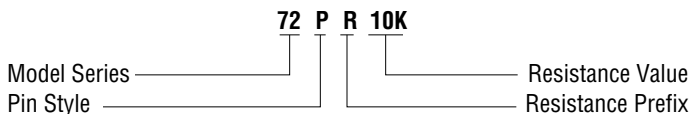
**Option:** Tape & Reel, Ammo Pack (Available only for 72RW only)

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)

## ORDERING INFORMATION

**Standard:**



**Option:**

