

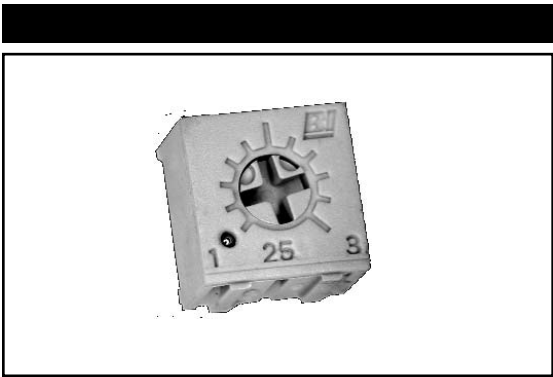
# MODEL 25

## 1/4" Square

## Single Turn

## Cermet Trimming

## Potentiometer



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### ELECTRICAL

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Standard Resistance Range, Ohms       | 10 to 2Meg                                |
| Standard Resistance Tolerance         | ±10%                                      |
| Input Voltage, Maximum                | 250 Vdc or rms not to exceed power rating |
| Power Rating, Watts                   | 0.5 at 70°C derating to 0 at 125°C        |
| End Resistance, Maximum               | 1% or 2 Ohm, whichever is greater         |
| Actual Electrical Travel, Nominal     | 210°                                      |
| Dielectric Strength                   | 900Vrms                                   |
| Insulation Resistance, Minimum        | 1,000 Megohms                             |
| Resolution                            | Essentially infinite                      |
| Contact Resistance Variation, Maximum | 1% or 3 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 (2% ΔRT, 2% ΔVR) |
| Moisture Resistance              | Ten 24 hour cycles (3% ΔRT)                |
| 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 Ohms +3% ΔRT)                |
| Load Life at 0.5 Watts           | 1,000 hours at 70°C (3% ΔRT, 3% ΔVR)       |
| Resistance to Solder Heat        | 350°C for 3 sec. (1% ΔRT)                  |

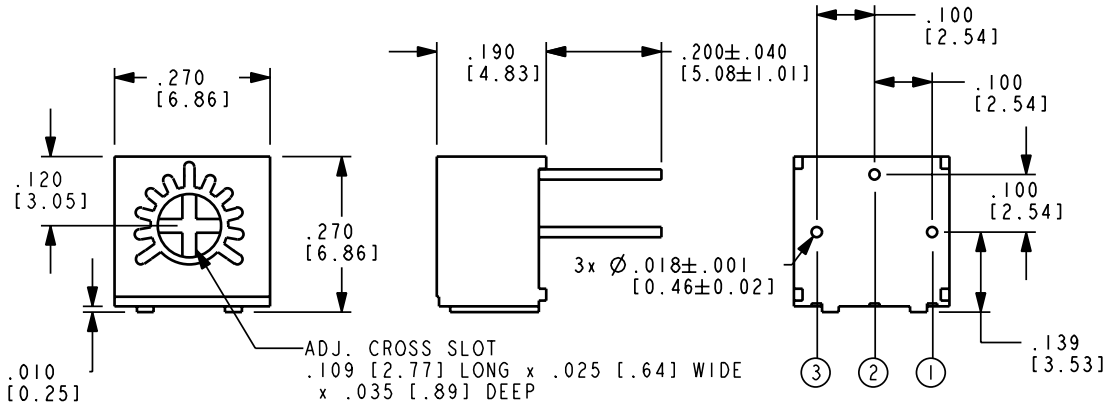
### MECHANICAL

|                        |                       |
|------------------------|-----------------------|
| Mechanical Stops       | Solid                 |
| Stop Strength, Minimum | 6 oz.-in. (500 gr-cm) |
| Torque, Maximum        | 3 oz.-in. (200 gr-cm) |
| Weight, Nominal        | .01 oz. (0.3 grams)   |

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

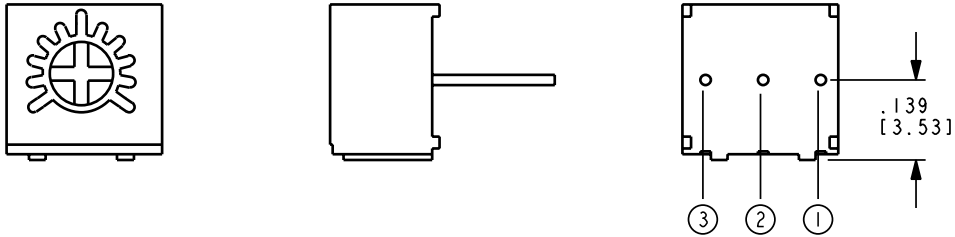
# TOP ADJUSTMENT (Inch/mm)

## MODEL 25P

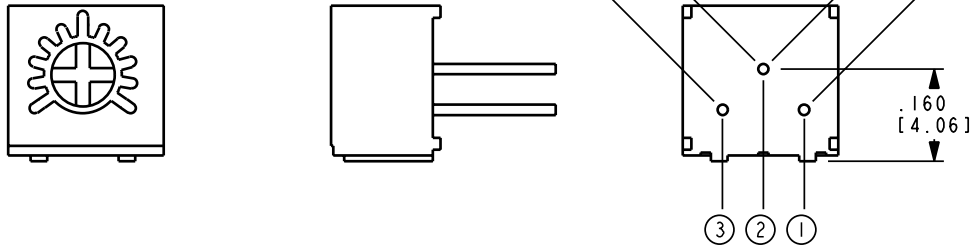


Note: Model 25P dimensions applicable to all models except as noted

## MODEL 25U



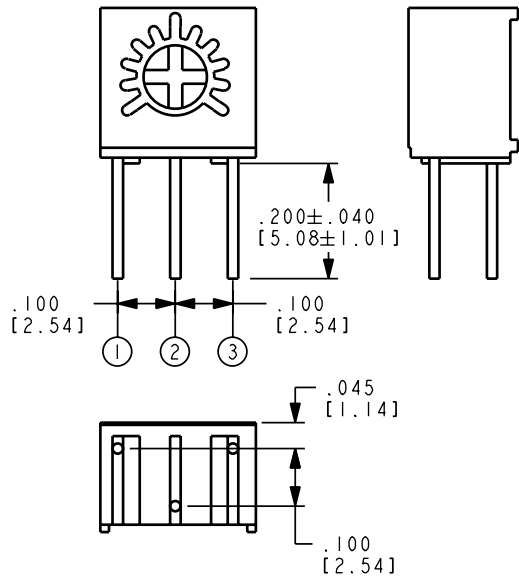
## MODEL 25W



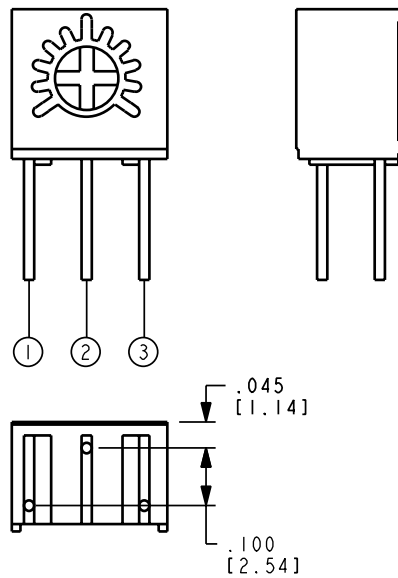
## STANDARD RESISTANCE VALUES, OHMS

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

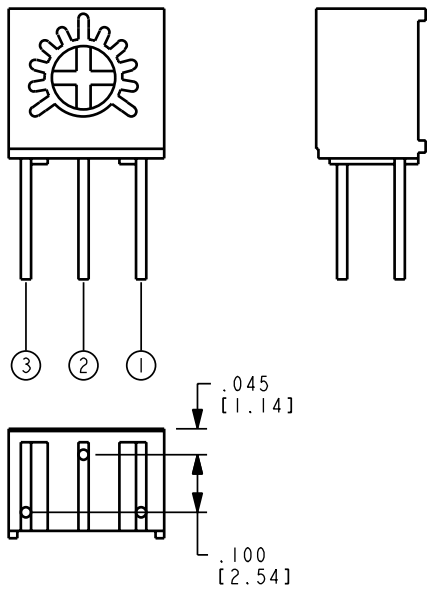
MODEL 25S



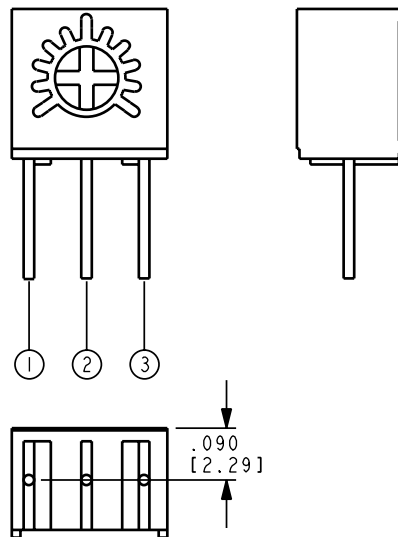
MODEL 25X



MODEL 25RX



MODEL 25V



## PACKAGING

**Standard:** Tubes, all styles, 50 units/tube  
All units oriented with #1 pin to same side.

**Option :** Tape & Reel, Ammo Pack (Available only for 25U and 25V)  
All units oriented with #3 pin towards 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                                        | = | 750 Units U style, 1000 V style                |
| Reel | Diameter                                        | = | 14" (363 mm)                                   |
| Ammo | Tape Fold                                       | = | 12"                                            |
|      | Box                                             | = | 2.0" x 13.4" x 13.8"<br>(50mm x 340mm x 350mm) |

## ORDERING INFORMATION

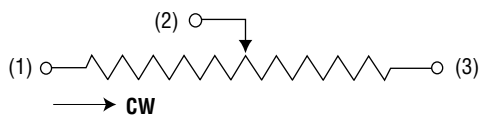
### Standard Package

Model Series ——— 25 P R 10K ——— Resistance Value  
Pin Style ——— Resistance Prefix

### Optional Packaging

Pin Style ——— 25 U R 10K XX ——— Packaging Option (25U & 25V)  
AP = Ammo Pack  
TR = Tape & Reel

## CIRCUIT DIAGRAM



## NOTES

English equivalents are based on 1 inch = 25.4mm  
and are provided for general information only.

Tolerances unless otherwise specified:  
Linear =  $\pm 0.3$  mm (.01 in.)

