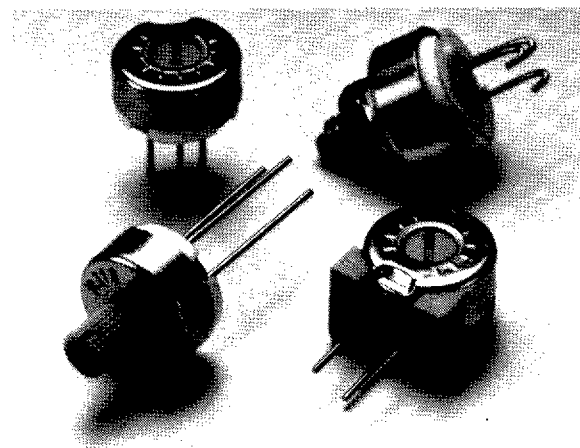


# Model RJ-13

## Single Turn Trimming Potentiometer 13mm Round, Cermet



### Features

- Sealed to Allow for Automatic Processing
- Precious Metal Contact

### Part Number

Model                      **RJ13** **P** **501**

Pin Style                     

Resistance Code                     

### Marking

Units Marked With Model Number, Resistance Code, and Date Code

### Packaging

Bulk Pack

| Standard Resistance Values and Codes |      |          |      |
|--------------------------------------|------|----------|------|
| $\Omega$                             | Code | $\Omega$ | Code |
| 10                                   | 100  | 20 K     | 203  |
| 20                                   | 200  | 25 K     | 253  |
| 50                                   | 500  | 50 K     | 503  |
| 100                                  | 101  | 100 K    | 104  |
| 200                                  | 201  | 200 K    | 204  |
| 500                                  | 501  | 250 K    | 254  |
| 1 K                                  | 102  | 500 K    | 504  |
| 2 K                                  | 202  | 1 M      | 105  |
| 5 K                                  | 502  | 2 M      | 205  |
| 10 K                                 | 103  | 5 M      | 505  |

### SPECIFICATIONS

#### Electrical

- Resistance Range : 10 Ohms to 5 Meg. Ohms
- Resistance Tolerance :  $\pm 10\%$  Standard
- Temp. Coeff. Of Resistance : 50 Ohms to 2 Meg.  $\pm 100$  ppm/ $^{\circ}$ C others  $\pm 250$  ppm/ $^{\circ}$ C.
- Power Rating : 3/4 Watt at 70 $^{\circ}$ C
- Operating Voltage Max. : 300 VDC or Power Rating, whichever is less.
- Wiper Current Max. : 100 mA or power rating, whichever is less.
- Electrical Angle : 230 $^{\circ}$  Nominal.
- Electrical Continuity : Continuous over full mechanical range.
- End Resistance : 1% or 2 Ohms, whichever is greater.
- Resolution : Essentially infinite.
- Contact Resistance Variation : 1% or 3 Ohms, whichever is greater.
- Operating Temp. Range : -55 $^{\circ}$ C to +125 $^{\circ}$ C.
- Insulation Resistance, Min. : Min. 1000 Meg. at 500 VDC for 2 minutes.
- Dielectric Strength : 900 VAC rms, 1 minute, 1 milliamp max.

#### Mechanical

- Mechanical Angle, Nominal : 270 $^{\circ}$  Nominal
- Operating Torque : 350 gram-cm (4.86 Oz-in.) max.
- Stop Strength, Min. : 1 Kilogram-cm max.
- Terminal Strength, Min. : 2 Kg
- Rotational Life : 200 cycles
- 10  $\Omega$  to 200  $\Omega$ ,  $\Delta$  R/R  $\leq 0.5 \Omega + 3\%$
- 500  $\Omega$  to 2 M $\Omega$ ,  $\Delta$  R/R  $\leq 0.5 \Omega + 2\%$

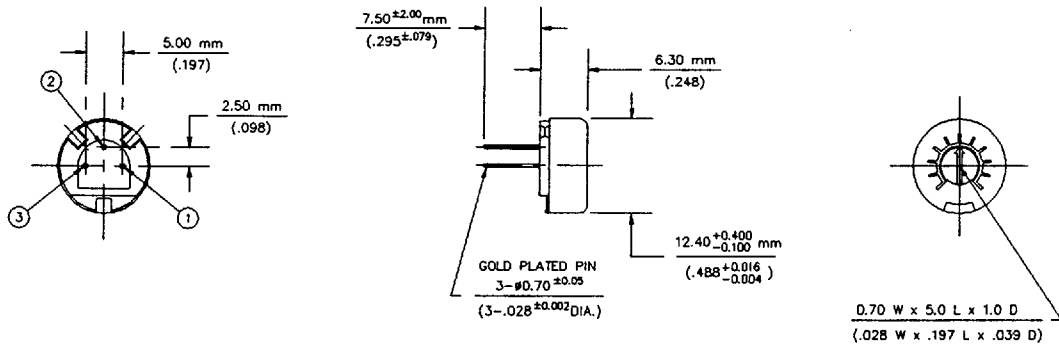
#### Environmental (MIL-R-22097)

- Thermal Shock:**  
(-65 $^{\circ}$ C to 125 $^{\circ}$ C)  $\Delta$  R/R  $\leq 1.00\%$   $\Delta$  SS  $\leq 1.00\%$
- Humidity:**  
(80 - 98% RH, 240 Hrs.)  $\Delta$  R/R  $\leq 1.00\%$
- Mech. Shock:**  
(100 g)  $\Delta$  R/R  $\leq 1.00\%$   $\Delta$  SS  $\leq 1.00\%$
- Vibration:**  
(20 g, 10 to 2000 Hz.)  $\Delta$  R/R  $\leq 1.00\%$   $\Delta$  SS  $\leq 1.00\%$
- Low Temp. Operation:**  
(-55 $^{\circ}$ C, 2 Hrs.)  $\Delta$  R/R  $\leq 1.00\%$   $\Delta$  SS  $\leq 2.00\%$
- High Temp. Exposure:**  
(125 $^{\circ}$ C, 250 Hrs.)  $\Delta$  R/R  $\leq 2.00\%$   $\Delta$  SS  $\leq 2.00\%$
- Load Life:**  
(70 $^{\circ}$ C, 0.75 W, 1000 Hrs.)  $\Delta$  R/R  $\leq 2.00\%$   $\Delta$  SS  $\leq 1.00\%$
- Soldering Heat:**  
(350 $^{\circ}$ C, 3 Sec.)  $\Delta$  R/R  $\leq 1.00\%$
- Immersion:**  
Fluorocarbon Liquid, 85 $^{\circ}$ C, 1 min. No Leaks

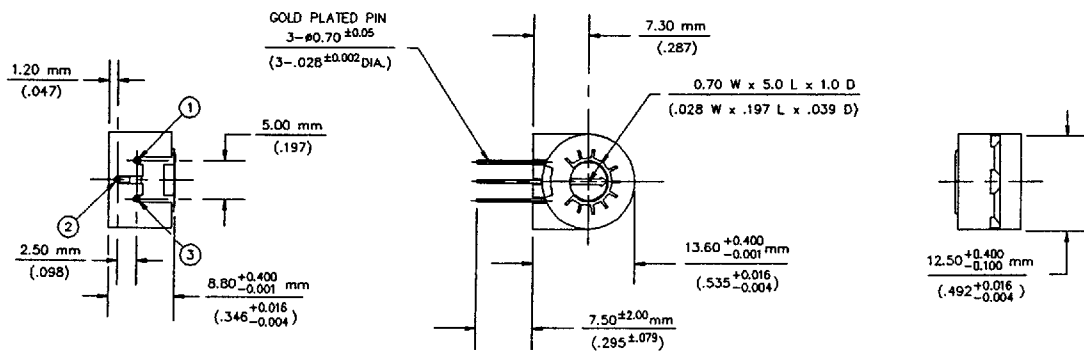
# RJ-13

Single Turn Sealed Cermet

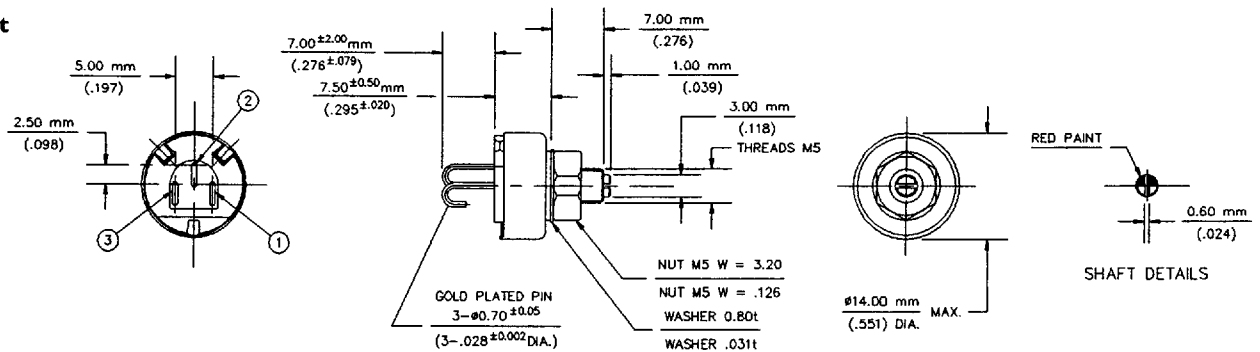
## RJ-13P Top Adjust



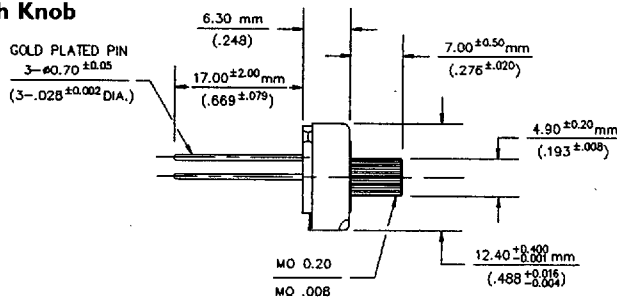
## RJ-13S Side Adjust



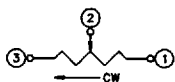
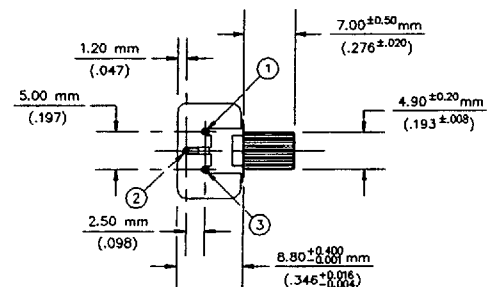
## RJ-13B Panel Mount



## RJ-13PR Top Adjust With Knob



## RJ-13SR Side Adjust With Knob



### Metric

1. Dimensions are in millimeters (inches in parentheses are for reference only).
2. Tolerances unless otherwise specified +/- 0.30 mm (+/- .012 inches).

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