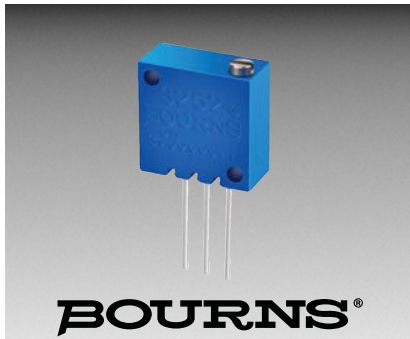




## Features

- Multiturn / Cermet / Sealed
- Listed on the QPL per MIL-PRF-22097
- Panel mount option available
- For trimmer applications/processing guidelines, [click here](#)

## RJ22 - 1/2 " Square Trimpot® Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range ..... 10 ohms to 1 megohm  
(see standard resistance table)  
Resistance Tolerance .....  $\pm 10\%$  std.  
Absolute Minimum Resistance ..... 1 ohm max.  
Contact Resistance Variation ..... 2 % or 2 ohms max.  
(whichever is greater)  
Adjustability  
Voltage .....  $\pm 0.01\%$   
Resistance .....  $\pm 0.05\%$   
Resolution ..... Infinite  
Insulation Resistance ..... 500 vdc.  
1,000 megohms min.  
Dielectric Strength  
Sea Level ..... 1,000 vac  
80,000 Feet ..... 400 vac  
Effective Travel ..... 25 turns nom.

### Environmental Characteristics

Power Rating @ 85 °C (400 volts max.) ..... 0.50 watt  
Power Rating @ 150 °C ..... 0 watt  
Temperature Range ..... -65 °C to +150 °C  
Temperature Coefficient .....  $\pm 100$  ppm/°C  
Seal Test ..... 85 °C Fluorinert\*  
(pin styles only)  
Humidity ..... MIL-STD-202 Method 106  
(1 %  $\Delta$ TR; 10 Megohms IR)  
Vibration ..... 20 G (1 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Shock ..... 100 G (1 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Load Life 1,000 hours 0.5 watt @ 85 °C  
(2 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Rotational Life ..... 200 cycles  
2 %  $\Delta$ TR

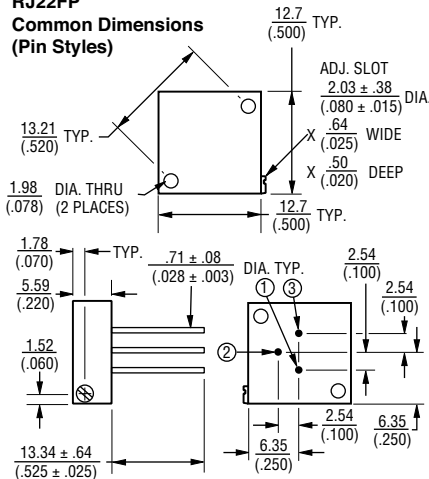
### Physical Characteristics

Torque ..... 5.0 oz-in. max.  
Mechanical Stops ..... Wiper idles  
Terminals ..... MIL-STD-202; Method 208  
Flexible leads ..... (7 strands of 30 AWG)  
Weight ..... 0.065 oz.  
Wiper ..... 50 % (Actual TR)  $\pm 10\%$   
Flammability ..... U.L. 94V-0  
Machine Screw Mounting  
Torque ..... 12 oz-in. max.  
Marking ..... Mil-spec part number  
Standard Packaging  
X, P & W Styles ..... 25 pcs. per tube  
L Style ..... 25 pcs. per bag  
Adjustment Tool ..... H-90

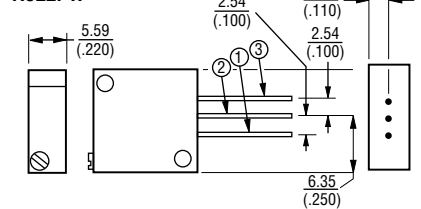
### Product Dimensions

#### RJ22FP

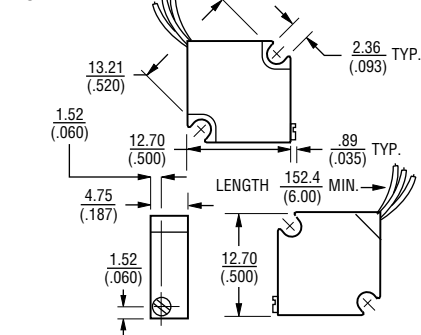
#### Common Dimensions (Pin Styles)



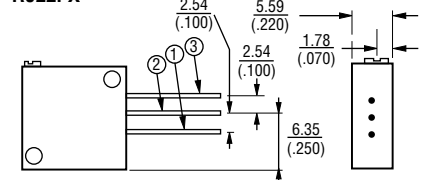
#### RJ22FW



#### RJ22FL



#### RJ22FX

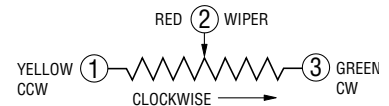


### How To Order

MIL-PRF-22097 RJ22 F W 103  
 Model \_\_\_\_\_  
 Characteristic \_\_\_\_\_  
 F =  $\pm 100$  ppm/°C Temp. Coeff. Max.  
 Terminal Style \_\_\_\_\_  
 Resistance Code \_\_\_\_\_

### Standard Resistance Table

| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| 10                | 100             |
| 20                | 200             |
| 50                | 500             |
| 100               | 101             |
| 200               | 201             |
| 500               | 501             |
| 1,000             | 102             |
| 2,000             | 202             |
| 5,000             | 502             |
| 10,000            | 103             |
| 20,000            | 203             |
| 25,000            | 253             |
| 50,000            | 503             |
| 100,000           | 104             |
| 250,000           | 254             |
| 500,000           | 504             |
| 1,000,000         | 105             |



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$   
 TOLERANCES:  $\pm \frac{0.25}{(.010)}$  EXCEPT WHERE NOTED

REV. 04/14

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

"Trimpot" is a registered trademark of Bourns, Inc.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

# Mouser Electronics

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[RJ22FX253](#)