

## 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            | ±10 % std.          |
| Absolute Minimum Resistance     | 1 ohm max.          |
| Contact Resistance Variation    | 2 % or 2 ohms max.  |
| (whichever is greater)          |                     |
| Adjustability                   |                     |
| Voltage                         | ±0.01 %             |
| Resistance                      | ±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.       |

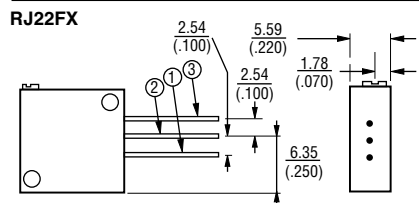
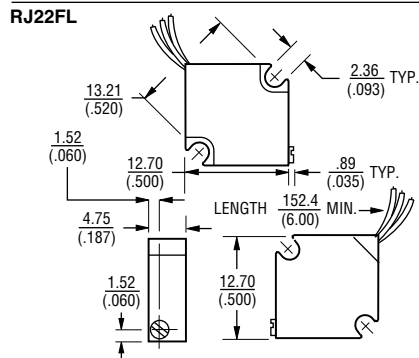
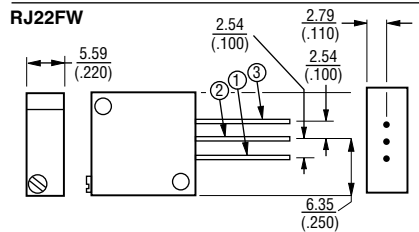
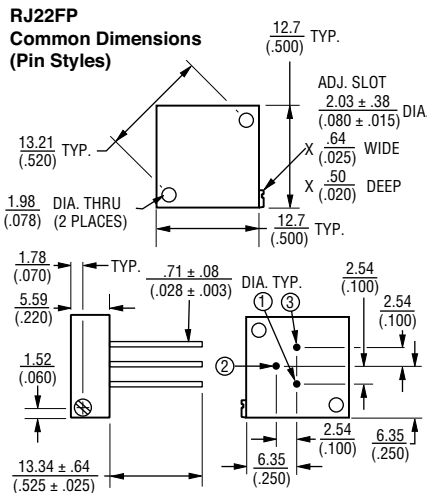
### Environmental Characteristics

|                                       |                              |
|---------------------------------------|------------------------------|
| 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               | ±100 ppm/°C                  |
| Seal Test                             | 85 °C Fluorinert*            |
| (pin styles only)                     |                              |
| Humidity                              | MIL-STD-202 Method 106       |
|                                       | (1 % ΔTR; 10 Megohms IR)     |
| Vibration                             | 20 G (1 % ΔTR; 1 % ΔVR)      |
| Shock                                 | 100 G (1 % ΔTR; 1 % ΔVR)     |
| Load Life                             | 1,000 hours 0.5 watt @ 85 °C |
|                                       | (2 % ΔTR; 1 % ΔVR)           |
| Rotational Life                       | 200 cycles                   |
|                                       | 2 % ΔTR                      |

### 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) ±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

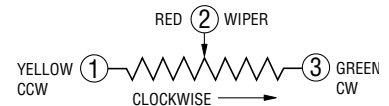


### How To Order

|                                   |                     |
|-----------------------------------|---------------------|
| MIL-PRF-22097                     | <b>RJ22 F W 103</b> |
| Model                             | _____               |
| Characteristic                    | _____               |
| F = ±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: | MM<br>(INCHES)                      |
| TOLERANCES: | ± 0.25<br>(.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.