



## Features

- Multiturn / Cermet / Industrial / Sealed
- Standoffs
- Listed on the QPL per MIL-PRF-22097 and High-Rel MIL-PRF-39035
- For trimmer applications/processing guidelines, [click here](#)

## RJ24/RJR24 - 3/8" 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  
RJ24 ..... 2 % or 20 ohms max.  
(whichever is greater)  
RJ24 ..... 2 % or 2 ohms max.  
(whichever is greater)  
Contact Resistance Variation  
..... 3.0 % or 3 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

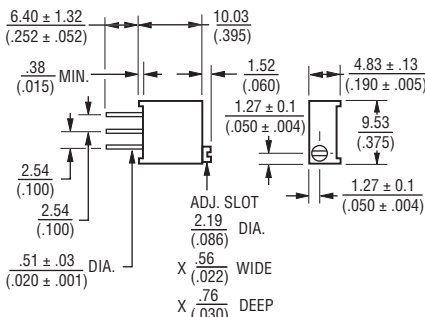
Power Rating (300 volts max.)  
85 °C ..... 0.5 watt  
150 °C ..... 0 watt  
Temperature Range  
..... -55 °C to +150 °C  
Temperature Coefficient  
.....  $\pm 100$  ppm/°C  
Seal Test ..... 85 °C Fluorinert\*  
Humidity ..... MIL-STD-202 Method 106  
RJ24 ..... 96 hours  
(1 %  $\Delta$ TR, 10 Megohms IR)  
RJ24 ..... 96 hours  
(1 %  $\Delta$ TR, 100 Megohms IR)  
Vibration ..... 20 G (1 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Shock ..... 100 G (1 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Load Life  
RJ24 ..... 1,000 hours 0.5 watt @ 85 °C  
(2 %  $\Delta$ TR; 10 %  $\Delta$ VR)  
RJ24 ..... 10,000 hours 0.5 watt @ 85 °C  
(3 %  $\Delta$ TR)  
Rotational Life ..... 200 cycles (2 %  $\Delta$ TR)

### Physical Characteristics

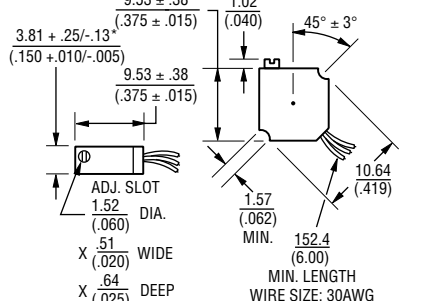
Torque ..... 5.0 oz-in. max.  
Mechanical Stops ..... Wiper idles  
Terminals ..... Mil-Std 202, Method 208  
Weight ..... 0.025 oz.  
Marking ..... Mil-spec part number,  
date code  
Wiper ..... 50 % (Actual TR)  $\pm 10\%$   
Flammability ..... U.L. 94V-0  
Standard Packaging ..... 50 pcs. per tube  
Adjustment Tool ..... H-90

### Product Dimensions

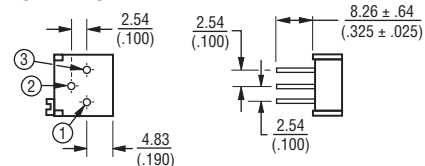
#### Common Dimensions



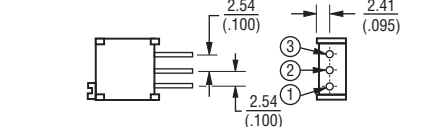
#### RJ24FL



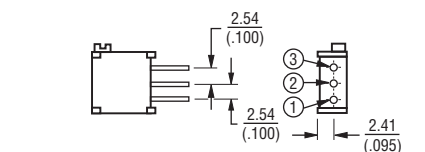
#### RJ24FP/RJR24FP



#### RJ24FW/RJR24FW



#### RJ24FX/RJR24FX



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

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

### How To Order

MIL-PRF-22097 RJ24 F L 202

Model .....  
Characteristic .....  
F =  $\pm 100$  ppm/°C Temp. Coeff. Max.  
Terminal Style .....  
Resistance Code .....

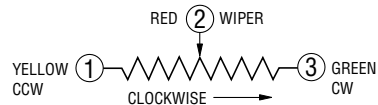
### How To Order

MIL-PRF-39035 RJR24 F W 502 R

Model .....  
Characteristic .....  
F =  $\pm 100$  ppm/°C Temp. Coeff. Max.  
Terminal Style .....  
Resistance Code .....  
Failure Rate .....  
M = 1.0 %  
P = 0.1 %  
R = 0.01 %

### 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             |
| 200,000           | 204             |
| 250,000           | 254             |
| 500,000           | 504             |
| 1,000,000         | 105             |



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.