



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

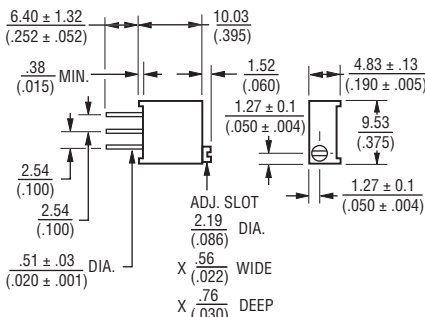
Power Rating (300 volts max.)
85 °C 0.5 watt
150 °C 0 watt
Temperature Range
..... -55 °C to +150 °C
Temperature Coefficient
..... ± 100 ppm/°C
Seal Test 85 °C Fluorinert*
Humidity MIL-STD-202 Method 106
RJ24 96 hours
(1 % Δ TR, 10 Megohms IR)
RJ24 96 hours
(1 % Δ TR, 100 Megohms IR)
Vibration 20 G (1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

Physical Characteristics

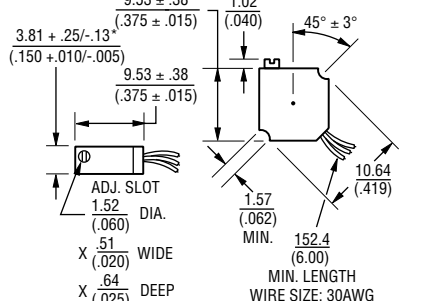
Torque 5.0 oz-in. max.
Mechanical Stops Wiper idles
Terminals Mil-Std 202, Method 208
Weight 0.025 oz.
Marking Mil-spec part number,
date code
Wiper 50 % (Actual TR) $\pm 10\%$
Flammability U.L. 94V-0
Standard Packaging 50 pcs. per tube
Adjustment Tool H-90

Product Dimensions

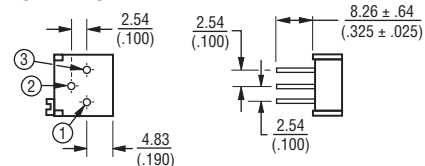
Common Dimensions



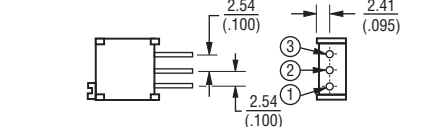
RJ24FL



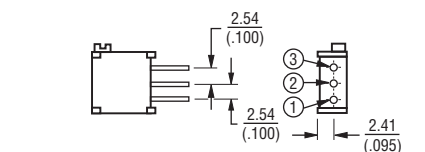
RJ24FP/RJR24FP



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 = ± 100 ppm/°C Temp. Coeff. Max.
Terminal Style
Resistance Code

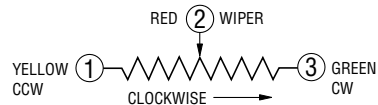
How To Order

MIL-PRF-39035 **RJR24 F W 502 R**

Model
Characteristic
F = ± 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.