

Features

- 1/4" Round / Single-Turn / Cermet Industrial / Sealed
- Listed on the QPL per MIL-PRF-22097 and High-Rel MIL-PRF-39035
- For trimmer applications/processing guidelines, [click here](#)



Models RJ50 & RJR50 are currently available, although not recommended for new designs.

RJ50/RJR50 - 1/4" Round Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range 10 to 1 megohm
 (see standard resistance table)
 Resistance Tolerance $\pm 10\%$ std.
 Absolute Minimum Resistance 1 % or 2 ohms
 (whichever is greater)
 Contact Resistance Variation 3.0 % or 3 ohms max.
 (whichever is greater)
 Adjustability
 Voltage $\pm 0.05\%$
 Resistance $\pm 0.15\%$
 Resolution Infinite
 Insulation Resistance 500 vdc.
 1,000 megohms min.
 Dielectric Strength
 Sea Level 600 vac
 80,000 Feet 250 vac
 Adjustment Angle 240° nom.

Environmental Characteristics

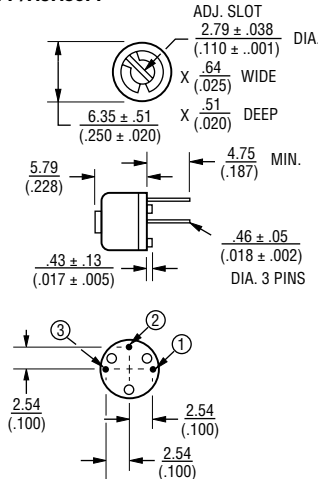
Power Rating @ 85 °C (300 volts max.) 0.5 watt
 Power Rating @ 150 °C 0 watt
 Temperature Range ... -55 °C to +150 °C
 Temperature Coefficient ... ± 100 ppm/°C
 Seal Test 85 °C Fluorinert†
 Humidity MIL-STD-202 Method 106
 96 hours
 (3 % Δ TR, 10 Megohms IR)
 Vibration 30 G (1 % Δ TR; 1 % Δ V)
 except "P" pin style
 Shock 100 G (1 % Δ TR; 1 % Δ V)
 Load Life
 1,000 hours 0.5 watt @ 85 °C
 (3 % Δ TR; 3 % CRV)
 Rotational Life 200 cycles
 (4 % Δ TR; 4 % CRV)

Physical Characteristics

Mechanical Angle 260° nom.
 Torque 5.0 oz-in. max.
 Stop Strength 5.0 oz -in. min.
 Terminals Solderable pins
 Weight 0.02 oz.
 Marking Manufacturer's trademark,
 resistance code, date code,
 manufacturer's model number
 and style
 Wiper 50 % (Actual TR) $\pm 10\%$
 Standard Packaging 50 pcs. per tube
 Adjustment Tool H-90

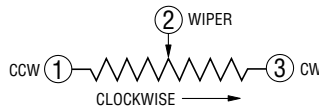
Product Dimensions

RJ50FP/RJR50FP



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

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



How To Order

MIL-PRF-22097 **RJ50 F P 103**

Model _____
 Characteristic _____
 F = ± 100 ppm/°C Temp. Coeff. Max.
 Terminal Style _____
 Resistance Code _____

How To Order

MIL-PRF-39035 **RJR50 F P 203 P**

Model _____
 Characteristic _____
 F = ± 100 ppm/°C Temp. Coeff. Max.
 Terminal Style _____
 Resistance Code _____
 Failure Rate
 M = 1.0 %
 P = 0.1 %

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. 08/10

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 "Trimpot" is a registered trademark of Bourns, Inc.
 Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.