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

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

Electrical Characteristics

Standard Resistance Range
.....10 to 1 megohm
(see standard resistance table)
Resistance Tolerance .....±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 .....±0.05 %
Resistance .....±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

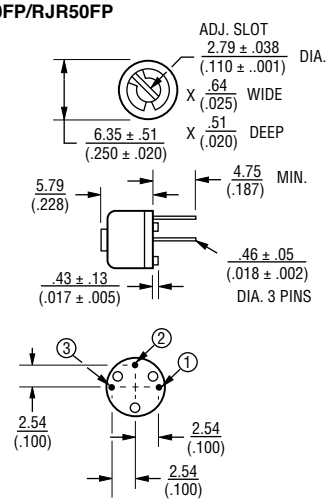
Power Rating @ 85 °C (300 volts max.)
..... 0.5 watt
Power Rating @ 150 °C ..... 0 watt
Temperature Range....-55 °C to +150 °C
Temperature Coefficient ....±100 ppm/°C
Seal Test.....85 °C Fluorinert†
Humidity..... MIL-STD-202 Method 106
96 hours
(3 % ΔTR, 10 Megohms IR)
Vibration ..... 30 G (1 % ΔTR; 1 % ΔVR)
except "P" pin style
Shock..... 100 G (1 % ΔTR; 1 % ΔVR)
Load Life
.....1,000 hours 0.5 watt @ 85 °C
(3 % ΔTR; 3 % CRV)
Rotational Life.....200 cycles
(4 % ΔTR; 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) ±10 %
Standard Packaging ..... 50 pcs. per tube
Adjustment Tool..... H-90

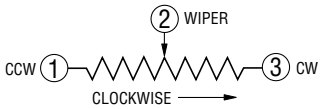
Product Dimensions

RJ50FP/RJR50FP



DIMENSIONS: MM (INCHES)

TOLERANCES: ± 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. 04/14

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