



## 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 96 hours
Humidity	MIL-STD-202 Method 106 (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)

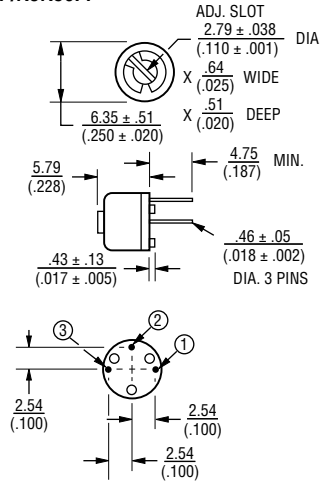
### Physical Characteristics

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

REV. 08/24

### Product Dimensions

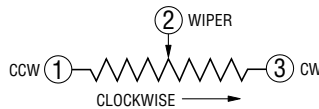
#### RJ50FP/RJR50FP



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

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

### Schematic



### Additional Information

Click these links for more information:



### How To Order

MIL-PRF-22097	<b>RJ50 F P 103</b>
Model	_____
Characteristic	_____
F = ±100 PPM/°C Temp. Coeff. Max.	
Terminal Style	_____
Resistance Code	_____

### How To Order

MIL-PRF-39035	<b>RJR50 F P 203 P</b>
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



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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Users should verify actual device performance in their specific applications.

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