

### 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<sup>®</sup> Trimming Potentiometer

### **Electrical Characteristics**

Standard Resistance Range	
(see standard resistance table)	
Resistance Tolerance	
Absolute Minimum Resistance	
1 % or 2 ohms	
(whichever is greater)	
Contact Resistance Variation	
(whichever is greater)	
Adjustability	
Voltage±0.05 %	
Resistance±0.15 %	
ResolutionInfinite	
Insulation Resistance 500 vdc.	
1,000 megohms min.	
Dielectric Strength	
Sea Level	
80,000 Feet	
Adjustment Angle 240 ° nom.	
Environmental Characteristics	

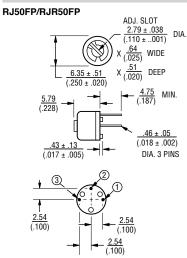
### Environmental Characteristics Power Bating @ 85 °C (300 volts max )

Power Rating @ 85 °C (300 volts max.)		
Power Rating @ 150 °C 0 watt		
Temperature Range55 °C to +150 °C		
Temperature Coefficient ±100 ppm/°C		
Seal Test		
Humidity MIL-STD-202 Method 106		
96 hours		
(3 % ∆TR, 10 Megohms IR)		
Vibration 30 G (1 $\% \Delta TR$ ; 1 $\% \Delta VR$ )		
except "P" pin style		
Shock 100 G (1 % ΔTR; 1 % ΔVR)		
Load Life		
1,000 hours 0.5 watt @ 85 °C		
(3 % ∆TR; 3 % CRV)		
Rotational Life		
(4 % ΔTR; 4 % CRV)		
(+ /0 ΔΠΤ, + /0 ΟΠΤ)		
Physical Characteristics		

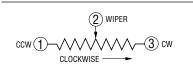
Mechanical Angle 260 ° nom.
Torque 5.0 oz-in. max.
Stop Strength 5.0 oz -in. min.
Terminals Solderable pins
Weight 0.02 oz.
MarkingManufacturer's trademark,
resistance code, date code,
manufacturer's model number
and style
Wiper 50 % (Actual TR) ±10 %
Standard Packaging 50 pcs. per tube
Adjustment Tool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



#### **Product Dimensions**



DIMENSIONS:	MM (INCHES)
TOLERANCES: ± 0.25 (.010)	EXCEPT WHERE NOTED



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### How To Order

MIL-PRF-39035	RJR50 F P 203
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. "Trimpot" is a registered trademark of Bourns, Inc.

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