

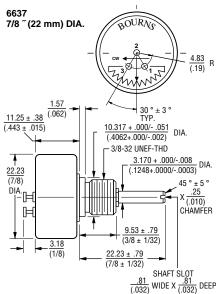
Features

- Bushing mount
- Excellent resolution
- High rotational life
- Non-standard features and specifications available

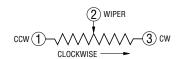
6637 - Precision Potentiometer

Electrical Characteristics ¹	
Standard Resistance Range	1 K to 100 K ohms
Total Resistance Tolerance	±10 %
Independent Linearity	±1 %
Effective Electrical Angle	340 ° ±3
End Voltage	0.5 % maximum
Output Smoothness	0.1 % maximum
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
Sea Level	750 VAC minimum
Power Rating (Voltage Limited By Power Dissipation or 300 VAC	
+70 °C	
+125 °C	
Insulation Resistance (500 VDC)	
Resolution	Essentially infinite
Environmental Characteristics ¹	
Operating Temperature Range	-40 °C to ±125 °C
Storage Temperature Range	
Temperature Coefficient Over Storage Temperature Range	500 ppm/°C maximum
Vibration	
Wiper Bounce	
Total Resistance Shift	
Voltage Ratio Shift	
Shock	
Wiper Bounce	
Total Resistance Shift	±5 % maximum
Voltage Ratio Shift	
Load Life	
Total Resistance Shift	
Rotational Life (No Load)	10.000.000 shaft revolutions
Total Resistance Shift	±10 % maximum
Moisture Resistance (MIL-STD-202, Method 106)	
Total Resistance Shift	±15 % maximum
IP Rating	IP 40
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Mechanical Characteristics ¹	
Mechanical Angle	Continuous
Torque (Starting & Running)	0.40 N-cm (0.5 ozin.) maximun
Mounting170	-200 N-cm (15-18 lbin.) maximun
Shaft Runout	
Shaft End Play	

Product Dimensions



NOTE: SHAFT SUPPORTED BY FRONT SLEEVE BEARING.



Recommended Part Numbers

Part Number	Resistance (Ω)
6637S-1-102	1,000
6637S-1-502	5,000
6637S-1-103	10,000

BOLDFACE LISTINGS ARE IN STOCK AND READILY AVAILABLE THROUGH DISTRIBUTION.

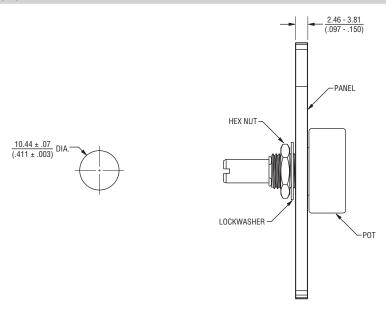
FOR SERVO MOUNT VERSION AND OTHER OPTIONS CONSULT FACTORY.



¹At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.

6637 - Precision Potentiometer

Panel Thickness Dimensions



Panel thickness and hole diameters are recommended for best fit. However, customers may adjust the dimensions to suit their specific application.

DIMENSIONS: $\frac{MM}{(INCHES)}$ TOLERANCES: $\pm \frac{0.127}{(.005)}$

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