

Features

- Essentially infinite resolution
- Excellent rotational life
- High quality, rugged construction
- General purpose applications
- Non-standard features available
- Cost and space saving

6539/6639 - Precision Potentiometer

Electrical Characteristics ¹	6539 Servo Mount	6639 Bushing Mount
Standard Resistance Range		
Independent Linearity	<u>+</u> 2.0 %	<u>+</u> 2.0 %
Effective Electrical Angle End Voltage		
Output Smoothness Dielectric Withstanding Voltage (MI		0.1 %
Sea Level	750 VAĆ minimum	
Power Rating (Voltage Limited By F +70 °C	1.0 watt	
+125 °C Insulation Resistance (500 VDC)		
Resolution		

Environmental Characteristics¹

Mechanical Characteristics¹

Stop Strength (applies to -301 with me Torque (Starting & Running) ² Mounting Shaft Runout Lateral Runout Shaft End Play Shaft Radial Play Pilot Diameter Runout Backlash Weight Terminals	
Manual Soldering	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire
Wave Soldering	370 °C (700 °F) max. for 3 seconds
Wash processes	. Manufacturer's name and part number, resistance value and
Marking	. Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram, and date code.
Ganging (Multiple Section Pots) Hardware (6639 only)	One lockwasher (H-37-2) and one mounting nut (H-38-2) is shipped with potentiometer.

 1At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted. $^{22.82}$ N-cm (4.0 oz.-in.) max. at -40 °C.

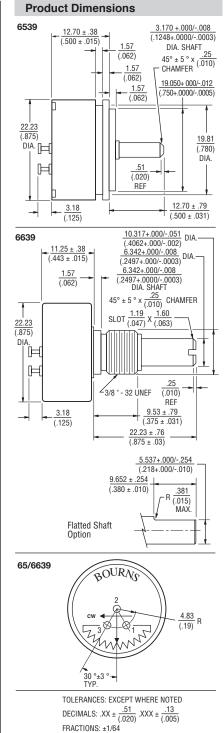


*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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DIMENSIONS: $\frac{MM}{(IN.)}$

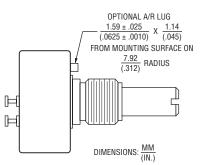
6539/6639 - Precision Potentiometer

Recommended Part Numbers

Part Number	Resistance (Ω)
6539S-1-102	1,000
6539S-1-502	5,000
6539S-1-103	10,000

BOLDFACE LISTINGS ARE IN STOCK AND READILY AVAILABLE THROUGH DISTRIBUTION. FOR OTHER OPTIONS CONSULT FACTORY.

Part Number	Mechanical Stop	A/R Lug	Shaft
6639S-1-RC	No	No	Slotted
6639S-2-RC	No	No	Flatted
6639S-3-RC	No	Yes	Slotted
6639S-4-RC	No	Yes	Flatted
6639S-5-RC	Yes	Yes	Slotted
6639S-6-RC	Yes	Yes	Flatted
6639S-7-RC	Yes	No	Slotted
6639S-8-RC	Yes	No	Flatted

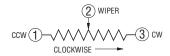


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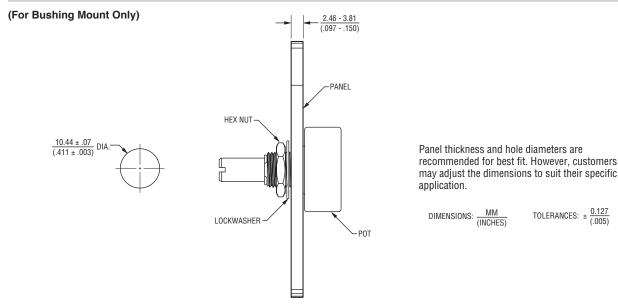
Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104

Schematic



Panel Thickness Dimensions



REV. 06/20

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