

### **Features**

- Lower profile than Model 6639
- Essentially infinite resolution
- Excellent rotational life
- High quality, rugged construction
- Recommended for HMI applications
- Cost and space saving

## 6630 - Precision Potentiometer

#### Electrical Characteristics<sup>1</sup>

Standard Resistance Range	1K to 20K ohms
Total Resistance Tolerance	
Independent Linearity	±2.0 %
Effective Electrical Angle	
End Voltage	
Output Smoothness	0.1 %
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
Sea Level	750 VAC minimum
Power Rating (Voltage Limited By Power Dissipation or 300 VAC, Whichever is	s Less)
+70 °C	
+125 °C	0 watt
Insulation Resistance (500 VDC) 1	0 megohms minimum
Resolution	Essentially infinite

#### Environmental Characteristics<sup>1</sup>

Operating Temperature Range Storage Temperature Range Temperature Coefficient Vibration	
Wiper Bounce	0.1 millisecond maximum
Total Resistance Shift	
Voltage Ratio Shift	±0.5 %
Voltage Ratio Shift Shock	
Wiper Bounce	0.1 millisecond maximum
Total Resistance Shift	+5 %
Voltage Ratio Shift	±0.5 %
Voltage Ratio Shift	1.000 hours, 1 watt
Total Resistance Shift	+10 %
Rotational Life (No Load)	
Total Resistance Shift	+10 % maximum
Moisture Besistance (MIL-STD-202 Method 106)	
Moisture Resistance (MIL-STD-202, Method 106) Total Resistance Shift	+15 %
IP Bating	IP 40
IP Rating Moisture Sensitivity Level	
ESD Classification (HBM)	NI/A
	N/A

#### Mechanical Characteristics<sup>1</sup>

Mechanical Angle	Continuous, Stops (340 ° +8 °, -0 °) available 
Mounting	
Shaft Runout	
Shaft End Play	
Shaft Radial Play	
Backlash	0.1 ° maximum 
Weight	
Terminals	Axial and radial solder lugs
	Recommended hand soldering using Sn95/Ag5 no clean solder,
0.025	" wire diameter. Maximum temperature 399°C (750 °F) for 3 seconds.
	No wash process to be used with no clean flux.
Marking	
	tolerance, linearity tolerance, wiring diagram, and date code.
Ganging (Multiple Section Pots	)1 cup maximum
Hardware	

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

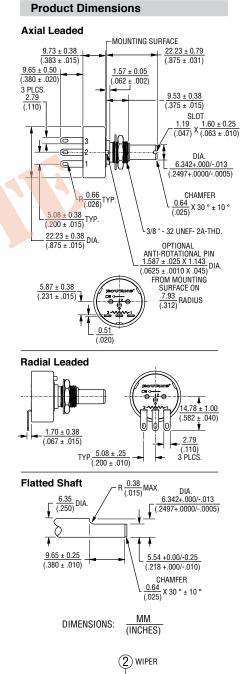
<sup>2</sup> 2.82 N-cm (4.0 oz.-in.) max. at -40 °C.



\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

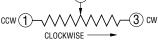
Users should verify actual device performance in their specific applications.

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Optional anti-rotation lug

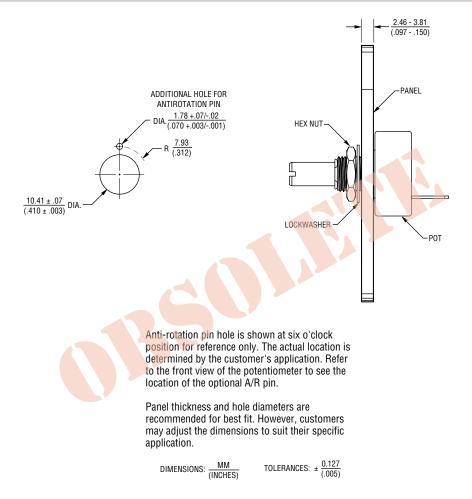
Optional mechanical stop



## 6630 - Precision Potentiometer

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#### **Panel Thickness Dimensions**



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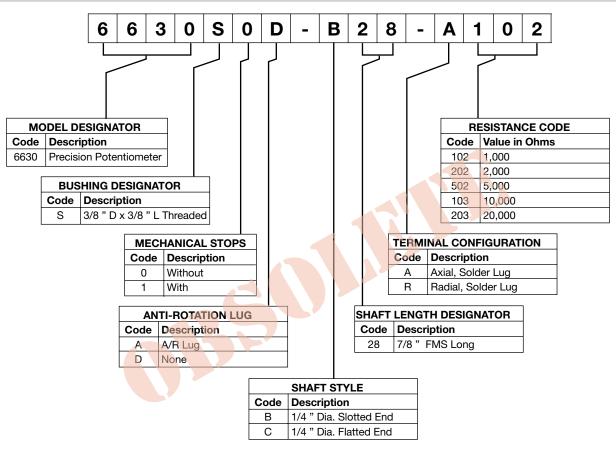
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How To Order



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