

### **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<br>Storage Temperature Range<br>Temperature Coefficient<br>Vibration |                         |
|--|-------------------------|
| Wiper Bounce   | 0.1 millisecond maximum |
| Total Resistance Shift   |                         |
| Voltage Ratio Shift  | ±0.5 %                  |
| Voltage Ratio Shift<br>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)<br>Total Resistance Shift                          | +15 %                   |
| IP Bating  | IP 40                   |
| IP Rating<br>Moisture Sensitivity Level  |                         |
| ESD Classification (HBM)   | NI/A                    |
|  | N/A                     |

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

| Mechanical Angle               | Continuous, Stops (340 ° +8 °, -0 °) available<br>                 |
|--------------------------------|--|
| Mounting                       |  |
| Shaft Runout                   |  |
| Shaft End Play                 |  |
| Shaft Radial Play              |  |
| Backlash                       | 0.1 ° maximum<br>  |
| 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.

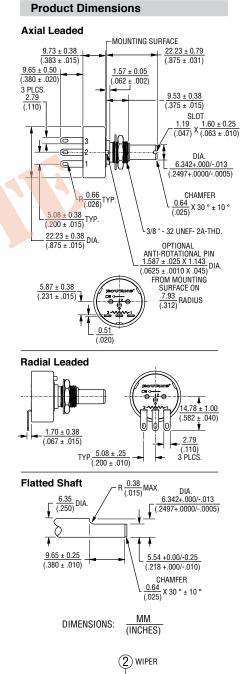
<sup>2</sup> 2.82 N-cm (4.0 oz.-in.) max. at -40 °C.



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

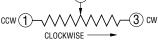
Users should verify actual device performance in their specific applications.

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Optional anti-rotation lug

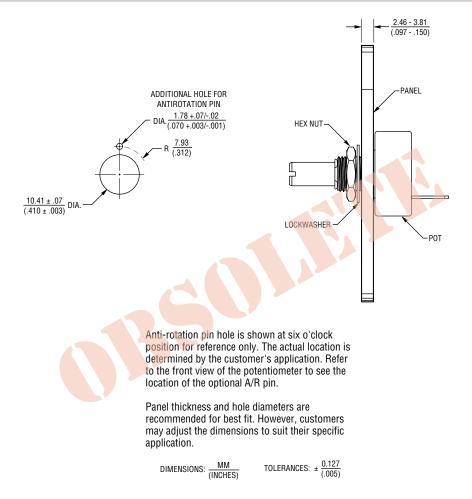
Optional mechanical stop



## 6630 - Precision Potentiometer

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#### **Panel Thickness Dimensions**



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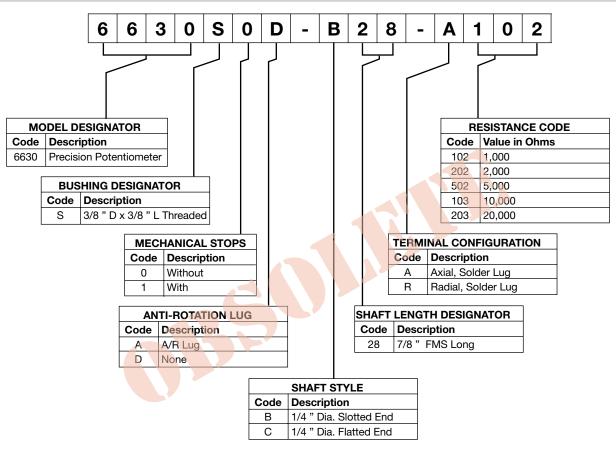
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How To Order



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