



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

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

- Optional anti-rotation lug
- Optional mechanical stop

6630 - Precision Potentiometer

Electrical Characteristics¹

Standard Resistance Range.....	1K to 20K ohms
Total Resistance Tolerance.....	±15 %
Independent Linearity.....	±2.0 %
Effective Electrical Angle.....	340 ° +3 °
End Voltage.....	0.5 % maximum
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 Less)	
+70 °C.....	1.0 watt
+125 °C.....	0 watt
Insulation Resistance (500 VDC).....	10 megohms minimum
Resolution.....	Essentially infinite

Environmental Characteristics¹

Operating Temperature Range.....	-40 °C to +125 °C
Storage Temperature Range.....	-65 °C to +125 °C
Temperature Coefficient.....	±500 ppm/°C maximum
Vibration.....	15 G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift.....	±5 %
Voltage Ratio Shift.....	±0.5 %
Shock.....	50 G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift.....	±5 %
Voltage Ratio Shift.....	±0.5 %
Load Life.....	1,000 hours, 1 watt
Total Resistance Shift.....	±10 %
Rotational Life (No Load).....	5,000,000 shaft revolutions
Total Resistance Shift.....	±10 % maximum
Moisture Resistance (MIL-STD-202, Method 106)	
Total Resistance Shift.....	±15 %
IP Rating.....	IP 40

Mechanical Characteristics¹

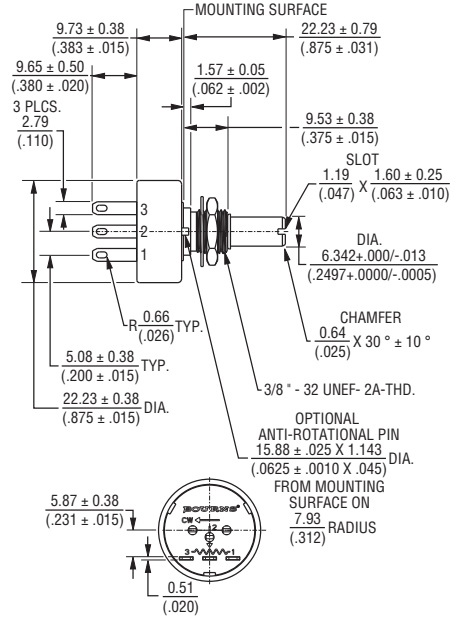
Mechanical Angle.....	Continuous, Stops (340 ° +8 °, -0 °) available
Torque (Starting & Running) ²	0.40 N-cm (0.5 oz.-in.) max.
Mounting.....	170-200 N-cm (15-18 lb.-in.) maximum
Shaft Runout.....	0.13 mm (0.005 in.) T.I.R.
Shaft End Play.....	0.13 mm (0.005 in.) T.I.R.
Shaft Radial Play.....	0.13 mm (0.005 in.) T.I.R.
Backlash.....	0.1 ° maximum
Weight.....	18 gm (6639 Servo Mount), 24 gm (6639 Bushing Mount)
Terminals.....	Axial and radial solder lugs
Soldering Condition.....	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.....	Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram, and date code.
Ganging (Multiple Section Pots).....	1 cup maximum
Hardware.....	One lockwasher (H-37-2) and one mounting nut (H-38-2) is shipped with potentiometer.

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

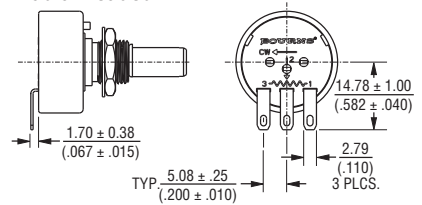
² 2.82 N-cm (4.0 oz.-in.) max. at -40 °C.

Product Dimensions

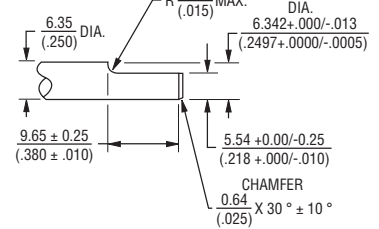
Axial Leaded



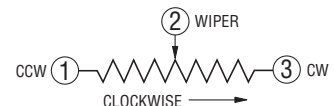
Radial Leaded



Flatted Shaft



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

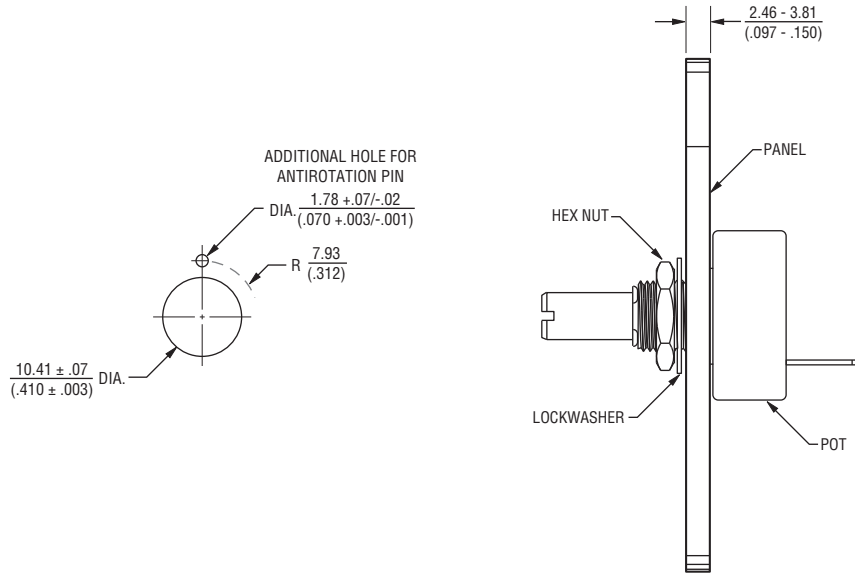
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

6630 - Precision Potentiometer

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Panel Thickness Dimensions



Anti-rotation pin hole is shown at six o'clock position for reference only. The actual location is determined by the customer's application. Refer to the front view of the potentiometer to see the location of the optional A/R pin.

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

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

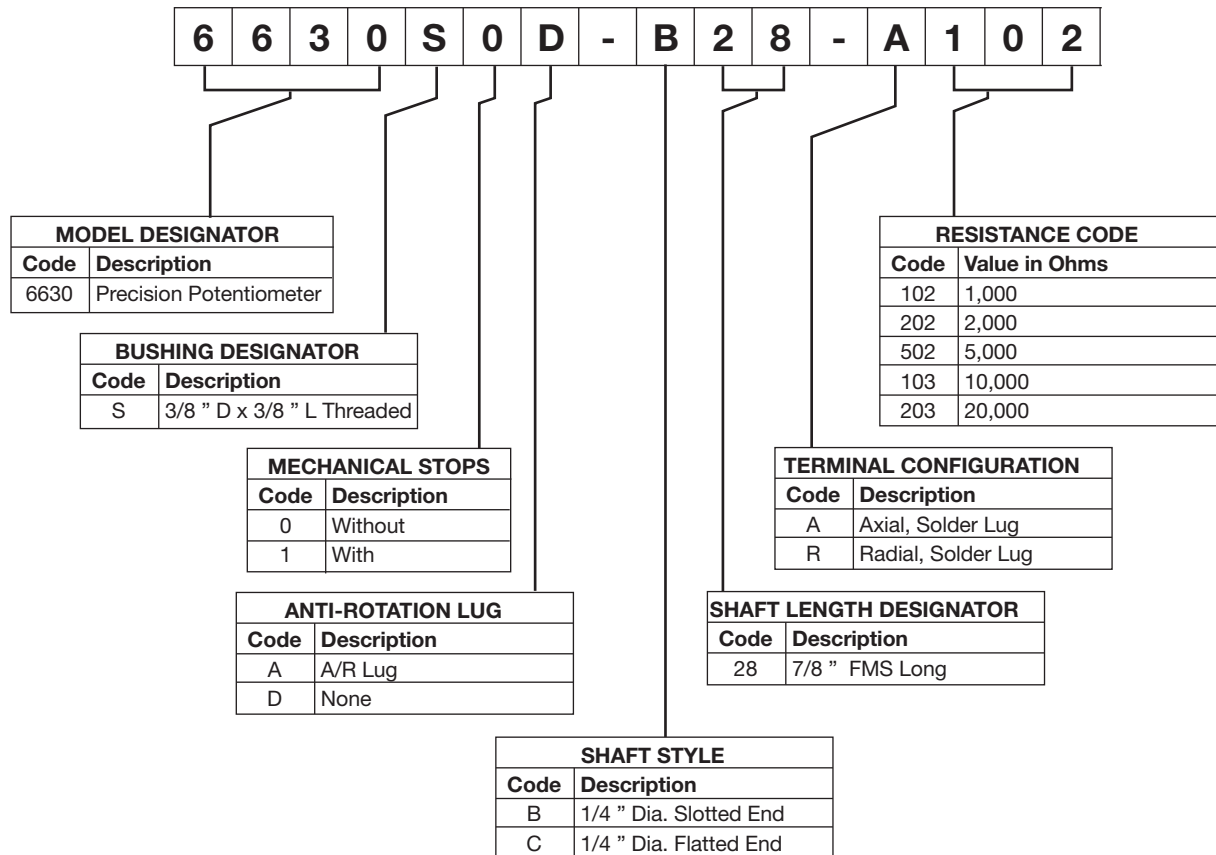
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How To Order



REV. 11/15

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