

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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Electrical Characteristics¹

Features

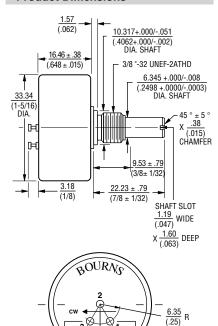
- Bushing mount
- Shaft supported by front sleeve bearing
- Non-standard features and specifications available

6657 - Precision Potentiometer

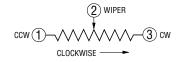
	±10 %
Independent Linearity	
Effective Electrical Angle	340 ° ±3 °
End Voltage	0.5 % maximum
Output Smoothness	0.1 %
Dielectric Withstanding Voltage (MIL-STD-202, Method 30	11)
Sea Level	750 VAC minimum
Power Rating (Voltage Limited By Power Dissipation or 30	00 VAC, Whichever is Less)
+70 °C	
+125 °CInsulation Resistance (500 VDC)	1 000 magahna minimum
Resolution	
nesolution	Loserniany minine
Environmental Characteristics ¹	
	40.004 405.00
Operating Temperature Range	40 °C to +125 °C
Storage Temperature Range Temperature Coefficient Over Storage Temperature Range	
Vibration	
Wiper Bounce	
Total Resistance Shift	
Voltage Ratio Shift	
Shock	
Wiper Bounce	
Total Resistance Shift	
Voltage Ratio Shift	±0.5 % maximum
Load Life	
Total Resistance Shift	
Rotational Life (No Load)	
Total Resistance Shift	±10 % maximum
Moisture Resistance (MIL-STD-202, Method 106)	45.0/
Total Resistance Shift	
IP Rating	IP 40
Mechanical Characteristics ¹	
moonamour onaraotoriono	
Mechanical Angle	
	0.40 N-cm (0.5 ozin.) maximum
Mechanical Angle	0.40 N-cm (0.5 ozin.) maximum170-200 N-cm (15-18 lbin.) maximum
Mechanical Angle	0.40 N-cm (0.5 ozin.) maximum170-200 N-cm (15-18 lbin.) maximum0.025 mm (0.001 in.) T.I.R0.13 mm (0.005 in.) T.I.R.
Mechanical Angle	
Mechanical Angle	
Mechanical Angle	
Mechanical Angle Torque (Starting & Running) Mounting Shaft Runout Shaft End Play Shaft Radial Play Backlash Weight Terminals	
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Mechanical Angle Torque (Starting & Running) Mounting Shaft Runout. Shaft End Play Shaft Radial Play Backlash Weight Terminals Soldering Condition Manual Soldering96.5Sn/3.0Ag/0.5	
Mechanical Angle	

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

Product Dimensions



TOLERANCES: EXCEPT WHERE NOTED DECIMALS: .XX $\pm \frac{.51}{(.02)}$.XXX $\pm \frac{.13}{(.005)}$ FRACTIONS: ±1/64 DIMENSIONS: $\frac{MM}{(IN.)}$



Recommended Part Numbers

Part Number*	Resistance (Ω)
6657S-1-102	1,000
6657S-1-202	2,000
6657S-1-502	5,000
6657S-1-103	10,000

BOLDFACE LISTINGS ARE IN STOCK AND READILY AVAILABLE THROUGH DISTRIBUTION.

FOR OTHER OPTIONS CONSULT FACTORY.

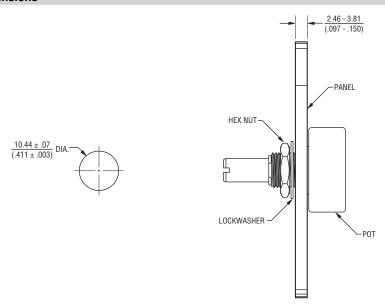
^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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.

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: $\pm \frac{0.127}{(.005)}$