



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!



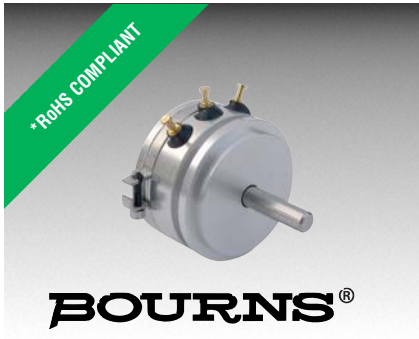
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Features

- Servo mount
- Shaft support by front and rear precision ball bearings
- Non-standard features and specifications available
- Gangable up to 10 cups

6534 - 7/8" (22 mm) Precision Potentiometer

Electrical Characteristics¹

Standard Resistance Range.....	1 K to 100 K ohms
Total Resistance Tolerance.....	±10 %
Independent Linearity.....	±0.5 %
Effective Electrical Angle.....	320° ±3°
End Voltage.....	0.1 % maximum (0.25 at 2 K ohms, 0.4 % at 1 K ohm)
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 350 VAC, Whichever is Less)	
+70 °C.....	.1 watt
+125 °C.....	.0 watt
Insulation Resistance (500 VDC).....	1,000 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 Over Storage Temperature Range.....	±500 ppm/°C maximum
Vibration.....	15 G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift.....	±2 % maximum
Shock.....	50 G
Wiper Bounce.....	0.1 millisecond maximum
Rotational Life (No Load).....	25,000,000 shaft revolutions
Total Resistance Shift.....	±10 % maximum
Moisture Resistance (MIL-STD-202, Method 103, Condition B)	
Total Resistance Shift.....	±10 % maximum
IP Rating.....	IP 40

Mechanical Characteristics¹

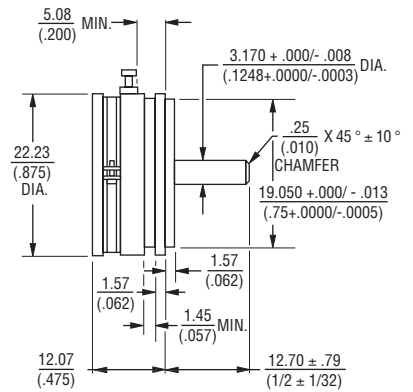
Mechanical Angle.....	Continuous
Torque (Starting & Running).....	0.18 N-cm (0.25 oz.-in.) maximum
Shaft Runout.....	0.025 mm (0.001 in.) T.I.R.
Lateral Runout.....	0.05 mm (0.002 in.) T.I.R.
Shaft End Play.....	0.08 mm (0.003 in.) T.I.R.
Shaft Radial Play.....	0.08 mm (0.003 in.) T.I.R.
Pilot Diameter Runout.....	0.025 mm (0.001 in.) T.I.R.
Backlash.....	0.1° maximum
Weight.....	18 grams
Terminals.....	Side exit turret style
Soldering Condition	
Manual Soldering.....	.96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire 370 °C (700 °F) max. for 3 seconds
Wave Soldering.....	96.5Sn/3.0Ag/0.5Cu solder with no-clean flux 260 °C (500 °F) max. for 5 seconds
Wash processes.....	Not recommended
Marking.....	Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram, and date code.
Ganging.....	10 cups maximum

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

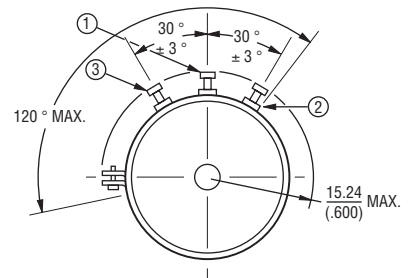
Recommended Part Numbers

Part Number	Resistance (Ω)
6534S-1-102	1,000
6534S-1-202	2,000
6534S-1-502	5,000
6534S-1-103	10,000
6534S-1-203	20,000
6534S-1-503	50,000
6534S-1-104	100,000

Product Dimensions



ADD 5.08 (.200) FOR EACH ADDITIONAL CUP.



TOLERANCES: EXCEPT WHERE NOTED
 DECIMALS: .XX ± .51 (.02), .XXX ± .13 (.005)
 FRACTIONS: ± 1/64
 DIMENSIONS: MM (IN.)

