



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

- 27 mm (1-1/16 ") diameter, single-turn wirewound
- Bushing mount
- Gangable to 8 cups
- Outstanding vibration and shock performance
- Shaft supported front and rear by precision sleeve bearings



Model 3435 is currently available, although not recommended for new designs. [Model 6657](#) is preferred.

- High temperature, moisture resistant, thermosetting plastic housing
- Non-standard features and specifications available

3435 - Precision Potentiometer

Electrical Characteristics¹

Standard Resistance Range	50 to 20 K ohms
Total Resistance Tolerance	±3 %
Independent Linearity	±0.5 %
Effective Electrical Angle	350 ° ±2 °
Noise.....	100 ohms ENR maximum
Absolute Minimum Resistance	1 ohm or 0.1 % (whichever is greater)
Dielectric Withstanding Voltage	
Sea Level	1,000 VAC minimum
Power Rating	
+70 °C.....	1.5 watts
+125 °C.....	0 watt
Insulation Resistance (500 VDC).....	1,000 megohms minimum
Resolution	See ordering information

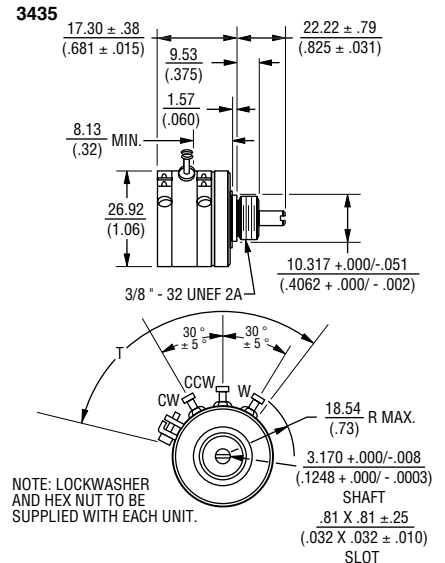
Environmental Characteristics¹

Operating Temperature Range.....	+1 °C to 125 °C
Storage Temperature Range.....	-65 °C to +125 °C
Temperature Coefficient Over Storage Temperature Range ²	±20 ppm/°C max.
Vibration (MIL-R-12934).....	15 G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift	±5 % maximum
Voltage Ratio Shift	±1 % maximum
Shock (MIL-R-12934).....	50 G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift	±5 % maximum
Voltage Ratio Shift	±1 % maximum
Load Life.....	1,000 hours
Total Resistance Shift	±2.0 % maximum
Rotational Life (No Load)	1,000,000 shaft revolutions
Total Resistance Shift	±5 % maximum
Moisture Resistance (MIL-STD-202, Method 106)	
Total Resistance Shift	±5 % maximum
Humidity	MIL-R-12934 humidity cycling
Total Resistance Shift	±5 % maximum
IP Rating.....	IP 40

Mechanical Characteristics¹

Mechanical Angle	Continuous
Torque	
Starting	0.18 N-cm (0.25 oz.-in.) maximum
Running	0.18 N-cm (0.25 oz.-in.) maximum
Additional Cups.....	Add 75 % each
Mounting.....	170-200 N-cm (15-18 lb.-in.) maximum
Shaft Runout.....	0.025 mm (0.001 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.
Backlash	0.25 ° maximum
Weight.....	Approximately 23 gm
Terminals.....	Gold-plated turret type
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, date code
Ganging (Multiple Section Potentiometers).....	8 cups maximum
Hardware	One lockwasher (H-37-2) and one mounting nut (H-38-2) is shipped with each potentiometer.

Product Dimensions

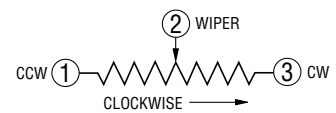


TOLERANCES: EXCEPT WHERE NOTED

DECIMALS: XX ± .51 (.020), XXX ± .13 (.005)

FRACTIONS: ±1/64

DIMENSIONS: $\frac{MM}{(IN.)}$



Recommended Part Numbers

Part Number	Resistance (Ω)	Resolution (%)
3435S-1-102	1,000	.208
3435S-1-202	2,000	.178
3435S-1-502	5,000	.135
3435S-1-103	10,000	.107
3435S-1-503	50,000	.057

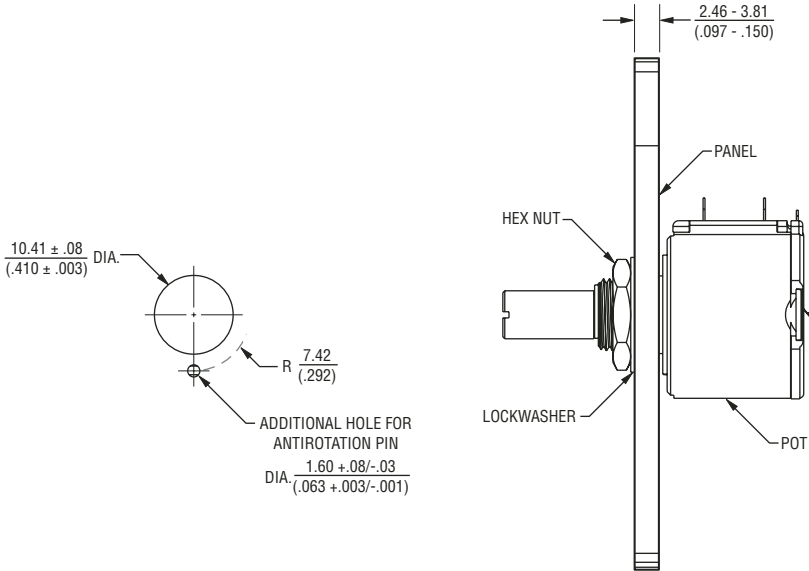
¹At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.

²Consult factory for complete specification details.

3435 - Precision Potentiometer

BOURNS®

Panel Thickness Dimensions



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

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