



BOURNS®

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.

3435 - Precision Potentiometer

Electrical Characteristics¹

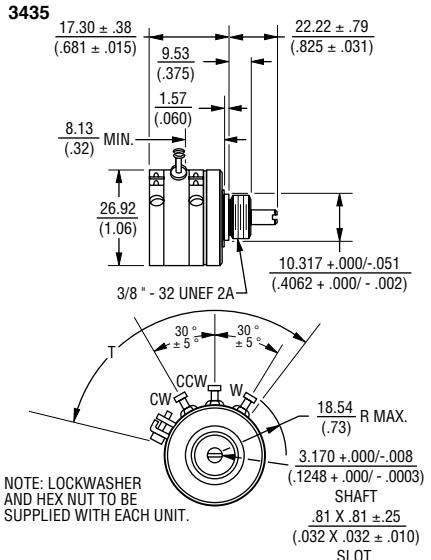
Standard Resistance Range	50 to 20 K ohms
Total Resistance Tolerance	±3 %
Independent Linearity	±0.5 %
Effective Electrical Angle	350 ° ±2 °
Noise.....	100 ohms ENR maximum
Absolute Minimum Resistance	1 ohm or 0.1 % (whichever is greater)
Dielectric Withstanding Voltage Sea Level	1,000 VAC minimum
Power 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

Product Dimensions

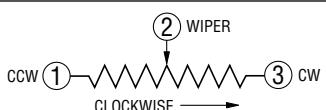


TOLEBRANCES: EXCEPT WHERE NOTED

DECIMALS: $xx + \frac{.51}{xxxx + .13}$

DECIMALS .xx $\frac{(.0)}{(.)}$
FRACTIONS 1/24

FRACTIONS: $\pm 1/64$



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

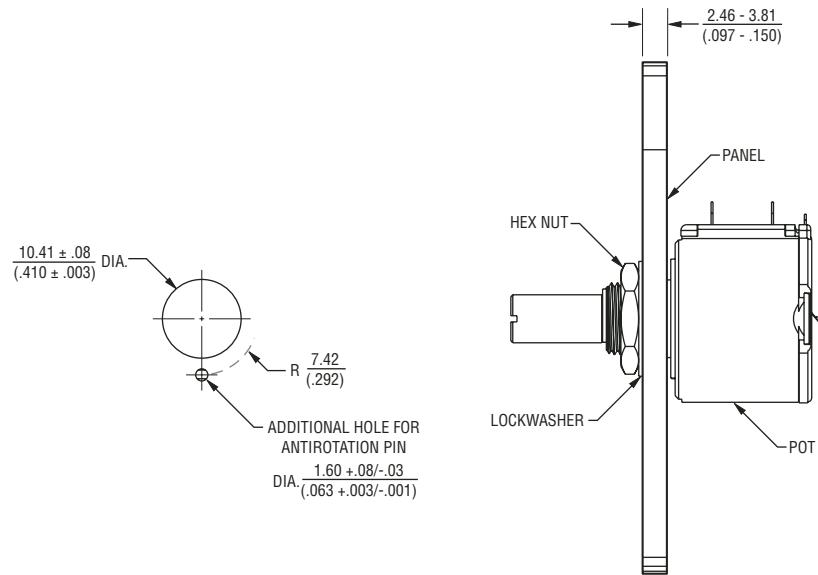
¹At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.

²Consult factory for complete specification details.

3435 - Precision Potentiometer

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Panel Thickness Dimensions



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

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