



BOURNS

Model 6634

Bourns® Precision Potentiometer

7/8" DIAMETER / SINGLE-TURN CONDUCTIVE PLASTIC

- Excellent resolution
- High rotational life
- Bushing mount
- Non-standard features and specifications available
- Gangable up to 10 cups

FOR ORDERING INFORMATION SEE PAGE 44

Electrical Characteristics¹

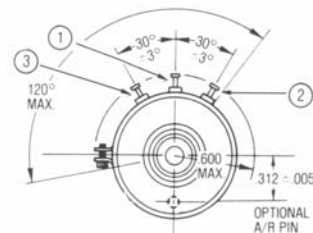
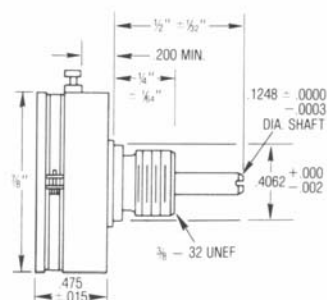
Standard Resistance Range	1K to 100K Ω
Resistance Tolerance	$\pm 10\%$
Independent Linearity	$\pm 0.5\%$
Effective Electrical Angle	$320^\circ \pm 3^\circ$
Absolute Minimum Resistance/Minimum Voltage	0.1% maximum (0.2% at 2K Ω , 0.4% at 1K Ω)
Resolution	Essentially infinite
Power Rating (Voltage Limited By Power Dissipation or 350 VAC, Whichever is Less)	
+ 70°C	1 watt
+ 125°C	0 watt
Output Smoothness	0.1%
Dielectric Strength V.R.M.S.	
Sea Level	750
70,000 Feet	250
Insulation Resistance (500 VDC)	1,000 megohms minimum

Environmental Characteristics¹

Operating Temperature	-65°C to +125°C
Resistance Temperature Coefficient	$\pm 5\%$ TRS
Moisture Resistance	Res. change $\pm 10\%$ maximum
Vibration	15G
Shock	50G
Rotational Life	25,000,000 revolutions
Total Resistance Shift	$\pm 10\%$ maximum

Mechanical Characteristics¹

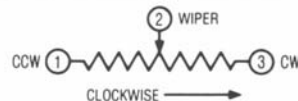
Shaft Runout (MIL-R-39023)	0.001 in. T.I.R.
Shaft End Play (MIL-R-39023)	0.003 in. T.I.R.
Shaft Radial Play	0.004 in. T.I.R.
Backlash	0.1° maximum
Mechanical Angle	Continuous
Torque (Starting & Running, oz-in. Maximum)	0.25



TOLERANCES: EXCEPT WHERE NOTED

DECIMALS: .XX ± .010 , .XXX ± .005

FRACTIONS: $\pm 1/64$ DIMENSIONS: IN.



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

Specifications are subject to change without notice.