

1-1/16" DIAMETER/SINGLE-TURN CONDUCTIVE PLASTIC

- Extended rotational life
- Ball bearings front and rear
- Servo Mount
- Ganging up to 10 cups
- Non-standard features and specifications available

FOR ORDERING INFORMATION SEE PAGE 44 .

BOURNS

Model 6544

Bourns® Precision Potentiometer

Electrical Characteristics¹

Standard Resistance Range.....	1K to 100KΩ
Resistance Tolerance.....	± 10%
Independent Linearity.....	± 0.25%
Effective Electrical Angle.....	350° ± 2°
Minimum Voltage.....	0.1% maximum (0.2% at 2KΩ, 0.4% at 1KΩ)
Resolution.....	Essentially infinite
Power Rating (Voltage Limited By Power Dissipation or 350 VAC, Whichever is Less)	
+ 70°C.....	2 watts
+ 125°C.....	0 watt
Output Smoothness.....	0.1%
Dielectric Withstanding Voltage.....	MIL-STD-202, Method 301
Sea Level.....	1,000 VAC minimum
70,000 Feet.....	350 VAC minimum
Insulation Resistance (500 VDC).....	1,000 megohms minimum

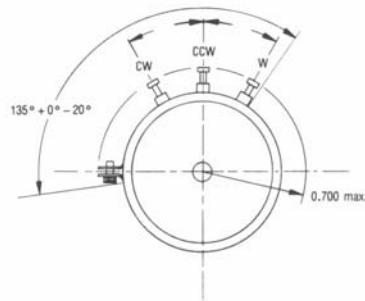
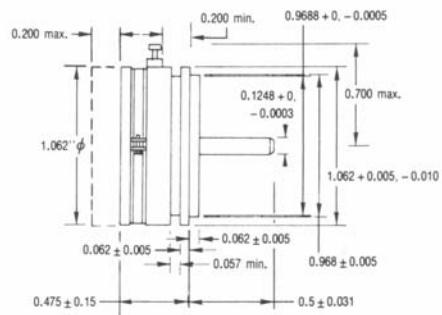
Environmental Characteristics¹

Operating Temperature.....	- 65°C to + 125°C
Static Operation Temperature Range.....	- 65°C to + 125°C
Dynamic Operation Temperature Range.....	+ 1°C to + 125°C
Temperature Coefficient ²	± 500ppm/°C maximum
Moisture Resistance.....	MIL-STD-202, Method 103, Condition B
Total Resistance Shift.....	± 10% maximum
Vibration.....	15G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift.....	± 2% maximum
Shock.....	60G
Wiper Bounce.....	0.1 millisecond maximum
Rotational Life (No Load).....	25,000,000 shaft revolutions
Total Resistance Shift.....	± 10% maximum
Load Life.....	1,000 hours, 1.5 watts
Total Resistance Shift.....	± 10% maximum

Mechanical Characteristics¹

Shaft Runout.....	0.001 in. T.I.R.
Shaft End Play.....	0.003 in. T.I.R.
Shaft Radial Play.....	0.003 in. T.I.R.
Pilot Diameter Runout.....	0.001 in. T.I.R.
Lateral Runout.....	0.003 in. T.I.R.
Backlash.....	0.1° maximum
Mechanical Angle.....	Continuous
Torque (Starting & Running).....	0.25 oz-in. maximum

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



TOLERANCES: EXCEPT WHERE NOTED

DECIMALS: .XX ± .010 , .XXX ± .005

DIMENSIONS: IN.



Specifications are subject to change without notice.