



7/8" ϕ , 10-TURN BUSHING MOUNT POTENTIOMETERS HYBRITRON® ELEMENT

- Extended resistance range
- Long rotational life element provides essentially infinite resolution
- Housing: high temperature, moisture resistant, thermo-setting plastic.
- Outstanding resistance to humidity
- Performance guaranteed by Bourns Reliability Assurance Program which includes individual inspection to published electrical and physical characteristics

STANDARD SPECIFICATIONS	MODEL 3501 7/8" ϕ
Electrical Characteristics	
Resistance Range	1 K Ω – 100 K Ω
Resistance Tolerance	$\pm 10\%$
Linearity (Independent)	$\pm 0.2\%$
Resolution	essentially infinite
Effective Electrical Angle	3600° + 10° – 0°
End Voltage	0.1% max.
Output Smoothness	0.05%
Power Rating	2.0 W
	0 W
Dielectric Strength MIL-R-39023	
Sea Level	1500 V ~
80,000 feet	400 V ~
Insulation Resistance 500 V =	1000 Meg. Ω min.
Environmental Characteristics	
Operating Temperature Range	-65 °C to +125 °C
Temperature Coefficient	± 100 ppm/°C
Humidity	MIL-R-39023 moisture resistance
Vibration	MIL-R-39023, 20G
Wiper Bounce	0.1 millisecond max.
Wiper Shift	0.1% max.
Shock	MIL-R-39023, 100G
Wiper Bounce and Wiper Shift	Same as Vibration
Load Life MIL-R-39023	1000 hours
Sand, Dust, Fungus	MIL-E-5272
Salt Spray	MIL-R-39023
Mechanical and Physical Characteristics	
Mechanical Angle	3600° + 10° – 0°
Shaft Runout	0.002 in. T.I.R.
Shaft End Play	0.005 in. T.I.R.
Shaft Radial Play	0.003 in. T.I.R.
Rotational Life, shaft revolutions	4,000,000
Torque, Starting and Running	0.6 oz.-in. max.
Stop Strength	96 oz.-in. min.
Ganging	2 cups max.
Weight	approx. 28 g
Terminals	Gold plated solder lugs
Markings	Manufacturer's name and part number, resistance value and tolerance, Linearity tolerance, wiring diagram, date code

Specifications are subject to change without notice.

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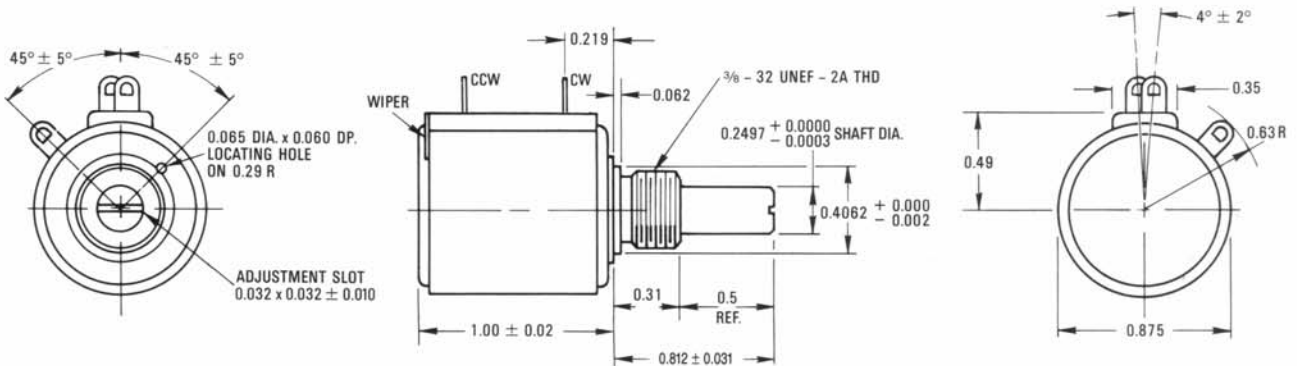
ORDERING INFORMATION

Resistance Ω	Part Number*
1,000	● 3501H-1-102
2,000	3501H-1-202
5,000	● 3501H-1-502
10,000	● 3501H-1-103
20,000	3501H-1-203
50,000	3501H-1-503
100,000	3501H-1-104

● Preferred resistance values

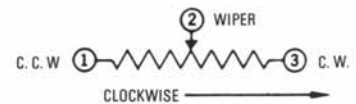
*The last three digits of the part number represent the resistance in standard code.

DIMENSIONS (INCH)



NOTE:
LOCKWASHER & HEX NUT TO BE
SUPPLIED WITH UNIT.

TOLERANCES: .XX = ± 0.01
.XXX = ± 0.005 EXCEPT
WHERE NOTED



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