

Model 3445

BOURNS® Potentiometer

Single-Turn 3" Diameter Bushing Mount
Wire Wound Element

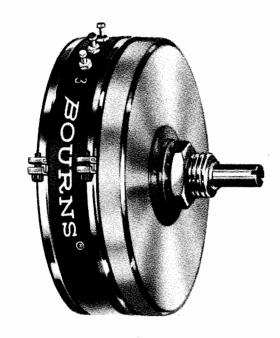


FEATURES

- Custom design capability is available to satisfy your most demanding and difficult special requirements.
- Extended Temperature Range: -65°C to +125°C
- Outstanding resistance to humidity Exceeds humidity cycling requirements of MIL-R-12934
- Dual collector pick-off assures outstanding vibration and shock performance
- Shaft supported front and rear by precision sleeve bearings
- Housing: high temperature, moisture resistant, thermosetting plastic

Performance of the Model 3445 is guaranteed by the Bourns Reliability Program, which includes individual inspection to published electrical and physical characteristics.





STANDARD RESISTANCES

Resistance (Ohms)	Part Number*	Resolution (Percent)
100	34458-1-101	0.123
200	34458-1-201	0.098
500	34458-1-501	0.075
1,000	34458-1-102	0.061
2,000	3445\$-1-202	0.049
5,000	3445\$-1-502	0.041

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

Resistance (Ohms)	Part Number*	Resolution (Percent)
10,000	3445\$-1-103	0.037
20,000	34458-1-203	0.037
50,000	34458-1-503	0.026
100,000	3445\$-1-104	0.022
150,000	34458-1-154	0.018
200,000	34458-1-204	0.017

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STANDARD SPECIFICATIONS

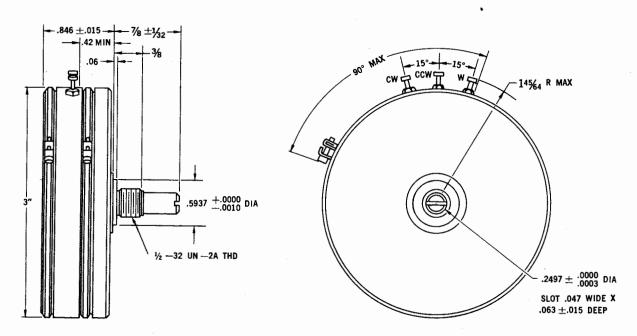
THE SPECIFICATIONS LISTED BELOW ARE FOR THE STANDARD MODEL. MODIFICATIONS OF ALL TYPES (MECHANICAL, ELECTRICAL AND ENVIRONMENTAL) CAN BE CUSTOM ENGINEERED TO YOUR SPECIFIC REQUIREMENTS.

ELECTRICAL CHARACTERISTICS
Resistance Range
Resistance Tolerance* ±3%
Linearity (Independent)* $\pm 0.25\%$
Resolution See Standard Resistance Table
Effective Electrical Angle*
Absolute Minimum Resistance* 1Ω or 0.1%, whichever is greater
Noise*
Power Rating 70°C 6 watts 125°C 0 watt
Dielectric Strength MIL-R-12934 Sea Level 1000 VAC min. 70,000 feet 300 VAC min.
Insulation Resistance, 500 VDC*
ENVIRONMENTAL CHARACTERISTICS
Operating Temperature Range —65°C to +125°C
Temperature Coefficient of Wire
Humidity MIL-R-12934, humidity cycling
Vibration MIL-R-12934, 15G Wiper Bounce 0.1 millisecond max. Wiper Shift 1.0% max.
Shock MIL-R-12934, 50G Wiper Bounce and Wiper Shift Same as vibration

	MIL-R-12934, 1000 hours 2% max.	
Sand and Dust	MIL-E-5272	
Fungus	MIL-E-5272	
Salt Spray	MIL-R-12934	
MECHANICAL AND PHYSICA	L CHARACTERISTICS	
Mechanical Angle*	Continuous	
Shaft Runout*		
Shaft End Play*		
Shaft Radial Play*	.004 in. T.1.R.	
Rotational Life		
-	1,75 oz-in. max. 1.0 oz-in. max. (Add 75% for each additional cup)	
Ganging		
Weight	Approximately 5 oz.	
Terminals	Gold-plated turrets	
Marking*		
NOTES	tolerance, wiring diagram and date code.	
* 100% or statistical sample	inspection performed to insure highest quality.	

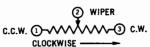
Specifications are subject to change without notice.

3445



NOTES:

- ADD .500.TO .846 DIM FOR EACH ADDITIONAL CUP.
- LOCKWASHER AND HEX NUT TO BE SUPPLIED WITH EACH UNIT.



TOLERANCES: EXCEPT WHERE NOTED DECIMALS: .XX \pm .010, XXX \pm .005 FRACTIONS: \pm $\frac{1}{164}$

