

Model 3520 %" Diameter 5-Turn Bushing Mount WIREWOUND ELEMENT



FEATURES

- SILVERWELD® termination eliminates vulnerable single wire termination
- High temperature performance + 125°C
- Outstanding resistance to humidity. Exceeds humidity cycling requirements of MIL-R-12934
- Housing: high temperature, moisture resistant, thermosetting plastic
- 100% contact pressure control assures low noise and long rotational life
- Performance of the Model 3520 is guaranteed by Bourns Reliability Assurance Program which includes individual inspection to published electrical and physical characteristics
- Custom design capability is available to satisfy your most demanding and difficult special requirements

Actual Size



STANDARD RESISTANCES

t Numt	Resolution (percent)		sistance (ohms)	Part Number*	Resolution (percent)
205-1-2	0.077		5,000	3520S-1-502	0.032
208-1-5	0.072		10,000	3520S-1-103	0.027
20S-1-1	0.072		20,000	3520S-1-203	0.023
205-1-2	0.063		50,000	3520S-1-503	0.018
205-1-5	0.045		75,000	35208-1-753	0.014
205-1-1	0.036	1	00,000	35208-1-104	0.014
205-1-2	0.028	2	50,000	3520S-1-25 4	0.012
203-1-2	0.028		30,000		33203-1-234

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

Model 3520 Wirewound Potentiometer

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	25Ω to 250K ohms
Resistance Tolerance*	±3.0%
Linearity (Independent)*	±0.3%
Resolution	See Standard Resistance Table
Effective Electrical Angle*	1800° (+10°,0°)
Absolute Minimum Resistance*	1Ω or 0.1%, whichever is greater
Noise*	100Ω maximum
Power Rating: 70°C 125°C	
Dielectric Strength Sea Level 80,000	1500 volts AC minimum
Insulation Resistance, 500 Volts DC*	1000 megohms minimum
ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature Range	
Temperature Coefficient of Wire**	20 PPM/°C maximum
Humidity	MIL-R-12934, Humidity Cycling
Vibration	0.1 millisecond maximum
Shock	
Load Life	

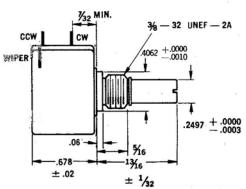
MIL-E-5272
MIL-STD-202, Method 101A
TERISTICS
1800° (+10°,0°)
.002 In. T.I.R.
.002 in. T.I.R.
2 cups maximum
Approximately 0.7 oz.
Gold plated solder lugs
nufacturer's name and part number,

NOTES

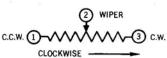
- *100% or statistical sampling inspection performed to insure highest quality.
- **Consult manufacturer for complete specifications for resistances below 2000 and above 75K $\!\Omega$.

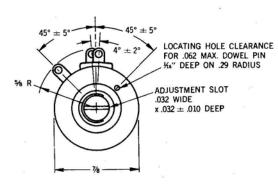
Specifications are subject to change without notice.

3520



LOCKWASHER AND MOUNTING NUT SUPPLIED WITH EACH UNIT





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

