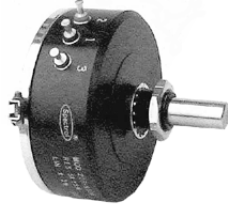


1 3/4" (44.5 mm) Single Turn Conductive Plastic Precision Potentiometer



FEATURES

- Rotational life exceeds 20 million shaft revolutions
- Virtually infinite resolution
- Designed for high reliability applications
- Co-molded track and multi-finger wiper provide low noise signal
- Bushing or servo types available up to 6 sections
- Ohmic value range: 1 kΩ to 50 kΩ



ELECTRICAL SPECIFICATIONS		
PARAMETER		
Total Resistance Tolerance	STANDARD 1 kΩ to 50 kΩ ± 10 %	SPECIAL - ± 5 %
Linearity (Independent)	STANDARD ± 0.3 %	SPECIAL ± 0.1 %
Electrical Angle	350° ± 3°	
Power Rating: Section 1: Additional Sections	1.75 W at 70 °C ambient derated to zero at 125 °C 75 % of the rating of section 1	
Output Smoothness	0.1 % maximum	
Insulation Resistance	1000 MΩ minimum, 500 V _{DC}	
Dielectric Strength	1000 V _{RMS} , 60 Hz	
Taps (Extra)	Extra taps available as special	
Phasing	Points at which output ratio is 0.5 aligned ± 1° (Ref. to section 1)	
Temperature Coefficient of Resistance	± 400 ppm/°C maximum	

ORDERING INFORMATION/DESCRIPTION				
The Model 208 can be ordered from this data sheet with a variety of alternate characteristics, as shown above. For most rapid service on your order, please state:				
208	B	1	10K	B01
MODEL	MOUNTING	NUMBER OF SECTIONS	TOTAL RESISTANCE OF EACH SECTION	PACKAGING
	B: Bushing S: Servo	Up to 6	Beginning with the section nearest the mounting end	Box of 1 piece
Other characteristics will be standard as described on this data sheet. If special characteristics are required, such as: special linearity tolerance, special resistance tolerance, extra taps, non-linear functions, etc., please state these on your order and allow additional lead time for delivery.				

SAP PART NUMBERING GUIDELINES					
208	S	2	103	502	B01
MODEL	STYLE	GANG NUMBERS	OHMIC VALUE GANG Nº 1	OHMIC VALUE GANG Nº 2	PACKAGING
	B: Bushing S: Servo	From 1 up to 6	10K	5K	



1 3/4" (44.5 mm) Single Turn Conductive Plastic Precision Potentiometer

Vishay Spectrol

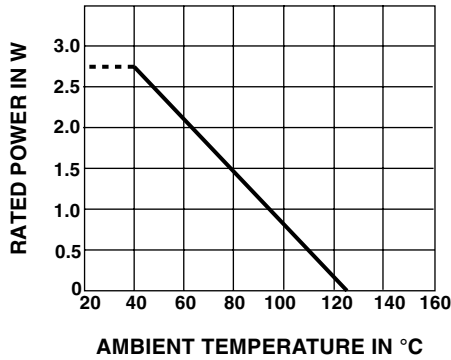
MATERIAL SPECIFICATIONS	
Housing and Lids	Aluminium, anodized
Shaft and Clamp Rings	Stainless steel, non-magnetic non-passivated
Terminals	Brass, plated for solderability
Bushing Mount Hardware Lockwasher Internal Tooth: Panel Nut:	Steel, nickel plated Brass, nickel plated

MARKING	
Unit Identification	Units shall be marked with Spectrol name, model number and data code on each section, resistance, resistance tolerance, linearity and terminal identification

ENVIRONMENTAL SPECIFICATIONS	
Vibration	15 g thru 2000 Hz
Shock	50 g
Salt Spray	96 h
Rotational Life	Servo: 20 million shaft revolutions Bushing: 5 million shaft revolutions
Load Life	900 h
Operating Temperature Range	- 55 °C to + 125 °C

POWER RATING CHART

(Ratings for cup No.1.
Additional cups 75 % of values shown)



RESISTANCE ELEMENT DATA	
RESISTANCE VALUES (Ω)	MAXIMUM VOLTAGE APPLICABLE (V)
1K	42
2K	59
5K	94
10K	132
20K	187
50K	299



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All product specifications and data are subject to change without notice.

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