Model 708



Vishay Spectrol

⁷/₈" (22.2 mm) Single Turn Conductive Plastic **Precision Potentiometer**



FEATURES

- · Virtually infinite resolution
- · Bushing mount and servo mount types available
- Rotational life exceeds 20 million shaft revolutions



- · Co-molded track and multi-finger wiper provide low noise signal
- Ohmic value range: 500 Ω to 50 k Ω

ELECTRICAL SPECIFICATIONS		
PARAMETER		
Total Resistance Standard Range:	500 Ω to 50 k Ω	
Tolerance:	STANDARD ± 10 %	SPECIAL ±5%
Linearity (Independent)	STANDARD ± 0.5 %	SPECIAL ± 0.2 %
Electrical Angle	340° ± 5°	
Power Rating Section 1: Additional Sections:	1.0 W at 70° 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 from Terminals to shaft	
Taps (Extra)	Extra taps available as special	
Phasing	Points at which output is 0.5 aligned \pm 1° (ref. to section 1)	
Temperature Coefficient of Resistance	± 400 ppm/°C maximum	

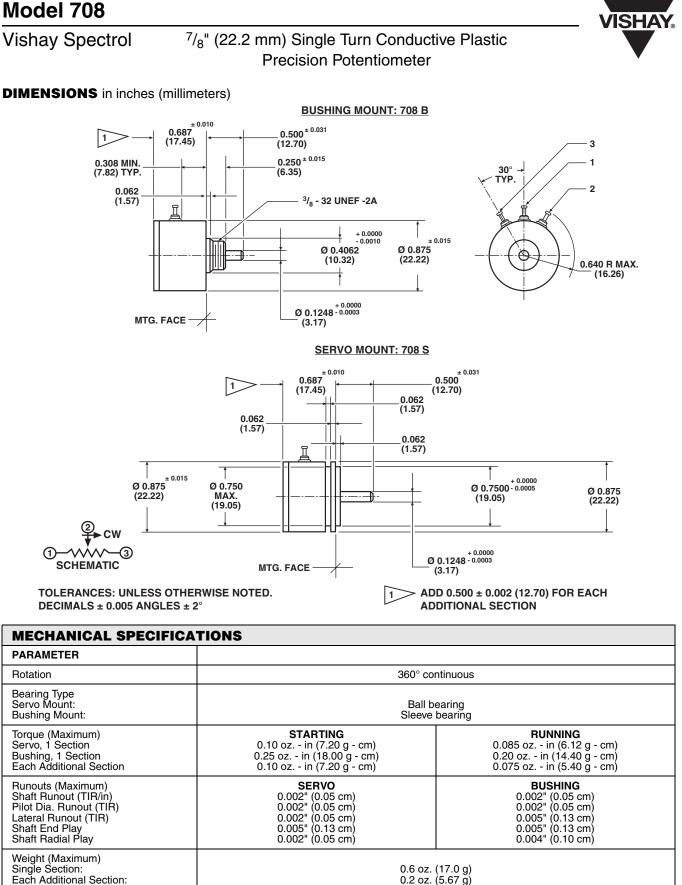
ORDERING INFORMATION/DESCRIPTION

The Model 708 can be ordered from this data sheet with a variety of alternate characteristics, as shown. For most rapid service on your order, please state:

708	В	1	10K	BO1
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 characteristic	s will be standard	as described on this data sheet	If special characteristics are required such a	e: chooial linearity

Other characteristics will be standard as described on this data sheet. If special characteristics are required, such as pecial 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			
708	S	2	102	103	B01
MODEL	STYLE	GANGS	OHMIC VALUE GANG Nº 1	OHMIC VALUE GANG Nº 2	PACKAGING
	B : Bushing S : Servo	From 1 up to 6	1K	10K	



6 sections max, terminal alignment, added sections within ± 10° of section 1 terminals

0.12 g - cm² per section maximum

Moment of Inertia

Ganging



7/8" (22.2 mm) Single Turn Conductive Plastic **Precision Potentiometer**

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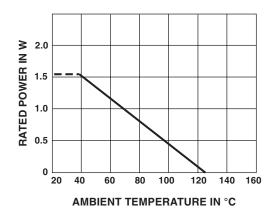
MATERIAL SPECIFICATIONS		
Housing and Lids	Aluminum, anodized	
Shaft	Stainless steel, non-magnetic non-passivated	
Terminals	Brass plated for solderability	
Bushing Mount Hardware Lockwasher Internal tooth: Panel Nut:	Steel, nickel plated Brass, nickel plated	

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	
Temperature Range	- 55 °C to + 125 °C	

MARKING	
Unit Identification	Units shall be marked with Spectrol name, model no, and data code, and on each section, resistance, resistance tolerance, linearity and terminal identification

POWER RATING CHART

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



RESISTANCE ELEMENT DATA		
RESISTANCE VALUES (Ω)	MAXIMUM VOLTAGE APPLICABLE (V)	
500	22	
1K	32	
2К	45	
5K	71	
10K	100	
20K	141	
50K	224	



Vishay

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