

Precision Potentiometer - Model MCP05 1/2" Diameter, Servo Mount

- 1/2" (13mm) Body Diameter
- 10 Million Turns Life
- Infinite Resolution
- 1K to 100K Resistance Values
- Low Operating Torque (<10gf)

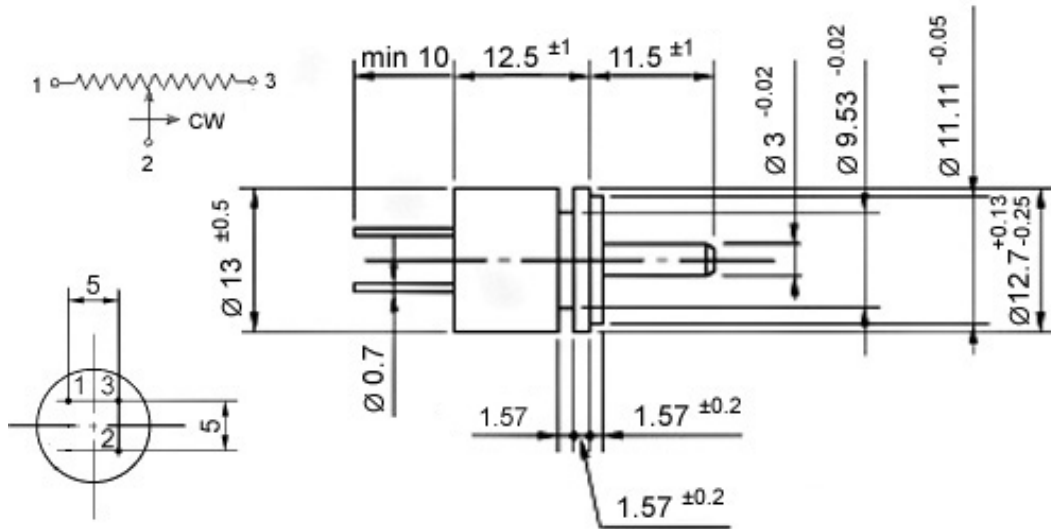


Precision single turn potentiometer in an all metal, 1/2" diameter housing. Servo flange mount (mounting hardware included) with ball bearings for very smooth, low torque operation. Ideal where space is limited. Many electrical and mechanical options available.

Electrical Specifications	
Electrical Angle	300 ±5°
Resistance Value (ohms)	1K...100k
Resistance Tolerance	±10%
Linearity Tolerance (std.)	±1%
Resolution	Essentially infinite
Wiper Current	1 mA recommended
Power @ 40°	0.2W
Insulation Resistance	>1000 Mohm @ 1000 VDC
Dielectric Strength	1 minute @ 500 VAC
Output Smoothness	< 0.1% per MIL-R-39023
Mechanical Specifications	
Mechanical Angle	360° (continuous)
Maximum Operating Friction	< 1.5mNm (10gf)
Life Expectancy	10 million cycles
Weight	6 grams
Max. Axial Play of Shaft	0.2 mm
Max. Radial Play of Shaft	0.1 mm
Vibration	15 g / 10Hz to 2,000 Hz
Shock	50 g / 11ms
Bearing	2 x precision ball bearing
Environmental Specifications	
Operating Temperature	-55°C to +125°C
IP Protection Grade	IP40 (IP54 optional)
Standard	per MIL-R-12934

Materials	
Housing	Aluminum
Shaft	Stainless steel
Terminals	Brass, gold plated. Pin type
Mounting hardware	3 servo fixing clamps provided - Type SFN3

Standard Dimensions (mm)



Options

- 1/8" shaft diameter
- Special shaft machining
- Special resistance values
- Special operating angles
- Mechanical stops (310° angle)
- Tighter tolerances
- Extra tap (1 only)
- Rear shaft (1mm x 10mm)
- Higher IP ratings (sealed)

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