

Single-Turn Conductive Plastic Potentiometer Series - MP10, 11



High Precision Range

Bushing Mount

Small Size

- ***1/2" (13mm) Diameter***
- ***5 Million Turns Life***
- ***Infinite Resolution***
- ***1K to 100K ohms Resistance Values***

Long life, high precision potentiometer in a compact package. Available with or without mechanical end stops. Many options available.

Electrical Specifications	MP10	MP11
Electrical Angle	300 ±5°	
Resistance Value (ohms)	1k...100k	
Resistance Tolerance	±15% (±10% opt.)	
Linearity Tolerance (std.)	±2%	
Linearity Tolerance (best)	±1%	
Resolution	Essentially infinite	
Max. Voltage (V)	500	
Wiper Current	1 mA nominal	
Power @ 40° (W)	0.2	
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)	310° ±10°
Maximum Operating Torque	0.2 (Ncm)	
Stopper Strength	-	30 (Ncm)
Life Expectancy	5 million cycles	
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	Sleeve bearing	

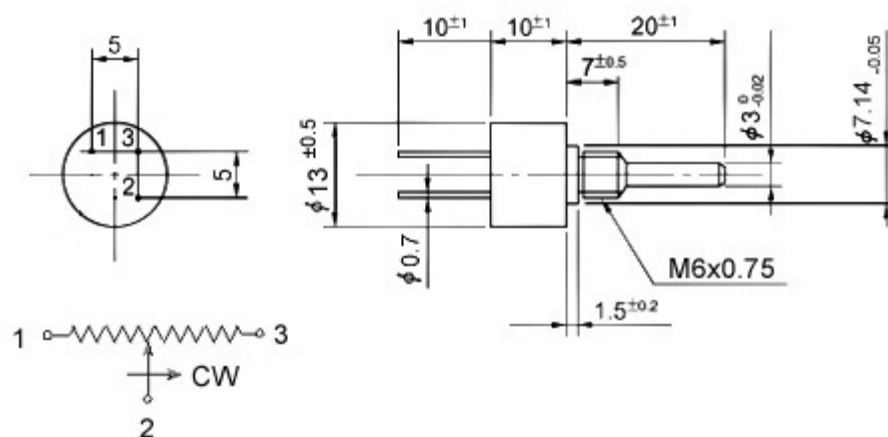
Environmental Specifications

Operating Temperature	-55°C to +105°C
IP Protection Grade	IP40 (IP65 optional)
Standard	per MIL-R-12934

Materials

Housing	Brass, nickel plated
Shaft	Stainless steel
Bushing	Brass
Terminals	Brass, gold plated. Pin type

Standard Dimensions (mm)



Options

- | | | |
|-----------------------------|----------------------------|------------------------|
| - 1/8" shaft diameter | - Special operating angles | - Extra tap (1 only) |
| - Special shaft machining | - Inch dimension bushing | - Rear shaft extension |
| - Special resistance values | - Improved tolerances | - Sealed version |

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