

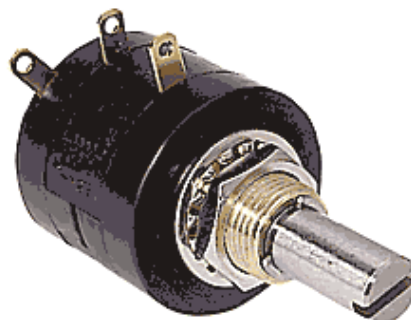
CPM Potentiometers

Precision Multi-Turn Potentiometers



FEATURES

- Available as 3, 5, and 10 turn models
- Hybrid element. High temp thermo plastic housing
- Recommended for medical equipment (non-life support), test and lab equipment, and industrial applications
- Robust electrically insulated design
- Great rotational reliability up to 10 million turns



SERIES SPECIFICATIONS

Series	No. of Turns	Electrical angle	Mechanical angle	Linearity independent	Power rating	Rotational life	Weight
CPM	3	1080°±5°	1080°+10°/-0°	±0.5%	1W	5,000,000	0.8 oz.
	5	1800°±5°	1800°+10°/-0°	±0.35%	1W	5,000,000	0.8 oz.
	10	3600°±5°	3600°+10°/-0°	±0.25%	2W	10,000,000	0.8 oz.

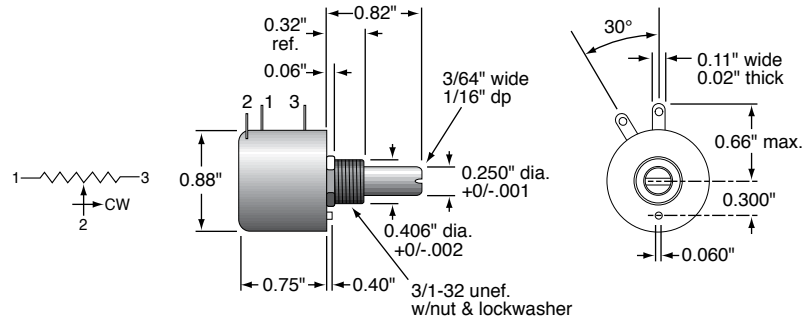
CHARACTERISTICS

Element	Hybrid	Dielectric strength	1000VAC min.
Housing	High Temp Thermo Plastic	Stop strength	48 in. oz.
Mount	Brass bushing std.; servo available	Output smoothness	<0.015% (10 turn), <0.05% (3 and 5 turn)
Terminals	Gold plated brass	Contact variation	<3% (10 turn), <5% (3 and 5 turn)
Shaft	Stainless steel	End voltage	0.3% max.
Life expectancy	10 mil. turns (10 turn), 5 mil. turns (3 and 5 turn)	Operating temperature	-55°C to +105°C
Resistance tolerance	±10% standard (±5% special order)	Temperature coefficient	±100PPM/°C
Linearity tolerance	±0.3% standard (±0.1% special order)	Vibration	10HZ to 2000HZ I5G
Power rating	2 Watt (10 turn), 1 Watt (5 turn), 1 Watt (3 turn)	Shock	50g 11ms
Torque	0.7 oz. in. max.	Moisture resistance	40°C 95%RH 120 hours
Insulation resistance	1000MΩ min. @500VDC	Resolution	essentially infinite
		Weight	0.8 oz.

(continued)

Precision Multi-Turn Potentiometers

DIMENSIONS



HOW TO ORDER

Multi-turn hybrid Ohm value

C P M 5 A 1 K 0 0 E

Series No. of turns Reliability automatically set by number of turns RoHS Compliant

Standard part numbers

CPM03A1K00E	CPM05A20K0E
CPM03A5K00E	CPM05A50K0E
CPM03A10K0E	CPM05A100KE
CPM03A20K0E	CPM10A1K00E
CPM03A50K0E	CPM10A5K00E
CPM03A100KE	CPM10A10K0E
CPM05A1K00E	CPM10A20K0E
CPM05A5K00E	CPM10A50K0E
CPM05A10K0E	CPM10A100KE