P3 America, Inc.

Motion Control and Automation Products

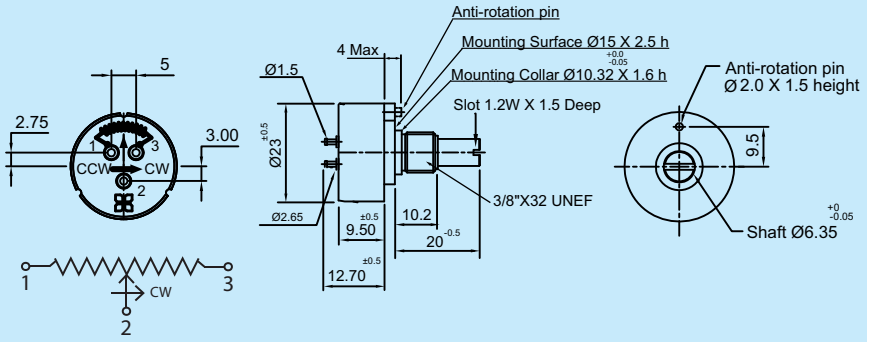
Single Turn Conductive Plastic Potentiometer

Series R23P
R23PC

Model R23P

RoHS

Dimensions: mm



Note: 1 pc. each inner teeth washer and hex nut are attached.

• Model Nos.

R23P	(with stop)
R23PC	(without stop, continuous)

• General Specifications (Note 1)

Resistance Values (Ω):	1K, 2K, 5K, 10K, 20K 50K, 100K
Resistance Tolerance:	Standard Class ±20% Precision Class ±10%
Independent Linearity Tolerance:	Standard Class ±2.0% Precision Class ±1.0%
Resolution:	Essentially Infinite
Output Smoothness:	Below 0.1% against input voltage
Rotational Life:	5,000,000 shaft revolutions (no load)
Protection Grade:	IP40 (IP54 option)
Operating Temperature:	-40°C ~ +120°C (Note 1)
Contact Resistance Variation:	Below 3% C.R.V.

Power Rating:	1.0W @ 70°C (0W @ 105°C)
Electrical Travel:	R23P 320° ±5° R23PC 340° ±5°
Mechancial Travel:	R23P 330° ±5° R23PC 360° (continuous)
Insulation Resistance:	> 1000M ohms @ 500 VDC
Dielectric Strength:	1 minute @ 500 VAC
Starting Torque:	0.708 Oz inch
Temperature Coefficient:	±400p.p.m / °C
Vibration:	15G / 10Hz to 2,000Hz
Shock:	50 G / 11ms
Mass:	Approx 20g
Housing:	Engineered plastic
Shaft:	Stainless steel
Terminals:	Brass, gold plated

• Special Specifications Available

Extra taps (Available up to 1 tap), Special electrical travel, special shaft diameter, special shaft machining. Custom cabling.

Note 1: Customers should test and verify device performance in any given application. General specifications are measured at temperatures of +15°C ~ +35°C. Specifications subject to change without notice.

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