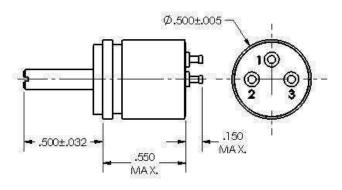
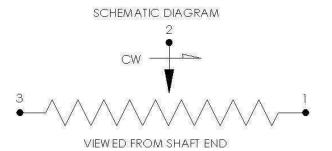


FEATURES

- ➤ Less Space (1/2" Dia. Sizes)
- > Greater Reliability
- ➤ Resolution
- > Output Smoothness
- ➤ Long Life
- Taps, Multi-sections, Electrical Angles, Special Total Resistance





6005 ROTARY SERIES

1KΩ, 2KΩ, 5KΩ, 10KΩ, 20KΩ • Precision Position Potentiometer 1/2" Dia. Servo Mount

SPECIFICATIONS

Industrial / Military Grade Rotary Position Sensor

Rotational Operating Life 100 x 10° Revolutions Min.

Anodized Aluminum Housing

Stainless Steel Shaft & Ball Bearings

General Requirements IAW MIL-PRF-39023

MEAS rotary potentiometer designs provide various non-linear tapers, taps, multi-sections, and electrical angles while maintaining great reliability.

ELECTRICAL CHARACTERISTICS

RESISTANCE 1K Ω to 20K Ω ±10%

ACTIVE ELECTRICAL ANGLE 325°

ELECTRICAL CONTINUITY ANGLE 330° MIN

INDEPENDENT LINEARITY ±1.0%

END VOLTAGE 1.0% MAX

VOLTAGE RESOLUTION VIRTUALLY INFINITE

OUTPUT SMOOTHNESS 0.1% MAX

RESISTANCE TEMP. COEFFICIENT 400PPM/°C MAX

POWER RATING @ 70°C 0.5 WATT MAX @ 70°C

WIPER CONTACT CURRENT 10mA MAX

DIELECTRIC STRENGTH 500 VRMS @ 60Hz

INSULATION RESISTANCE 100mΩ MIN @ 500VDC

1KΩ, 2KΩ, 5KΩ, 10KΩ, 20KΩ • Precision Position Potentiometer 1/2" Dia. Servo Mount

MECHANICAL CHARACTERISTICS

MECHANICAL ROTATION CONTINUOUS STARTING TORQUE 0.20 Oz.-In. MAX **RUNNING TORQUE** 0.15 Oz.-In. MAX **TOTAL WEIGHT (1-GANG)** 0.7 Oz. MAX **PILOT RUNOUT** 0.001 In. TIR **SHAFT RUNOUT** 0.001 In. TIR SHAFT ENDPLAY 0.003 MAX 0.001 In. TIR SHAFT RADIAL PLAY LATERAL RUNOUT 0.002 In. TIR

STANDARD MATERIALS

HOUSING ANODIZED ALUMINUM

SHAFT & BALL BEARINGS STAINLESS STEEL

RESISTANCE ELEMENT CO-MOLDED CONDUCTIVE PLASTIC

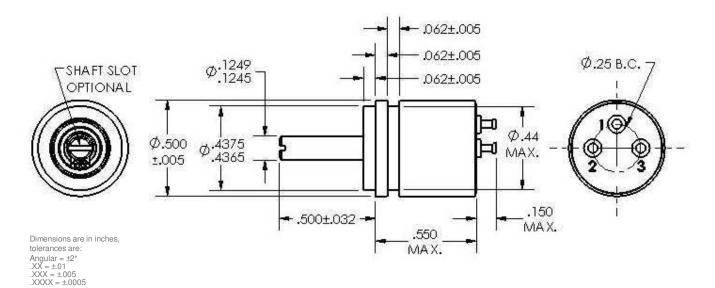
ELECTRICAL CONTACTS MULTI-FINGER PRECIOUS METAL

SOLDER TERMINALS GOLD PLATED BRASS

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMP. RANGE -65°C to +125°C

ROTATIONAL OPERATING LIFE 100 x 10° REVOLUTIONS MIN.



6005 ROTARY SERIES

1KΩ, 2KΩ, 5KΩ, 10KΩ, 20KΩ • Precision Position Potentiometer 1/2" Dia. Servo Mount

AVAILABLE OPTIONS / CUSTOMIZATION

- Resistance Values
 - \circ 500 Ω to 30K Ω
- Tolerances
 - As low as ±5%
- Special Linearity
 - o As low as 0.25%
 - Absolute (Indexed)
 - o Or Independent over specified regions
- Additional Taps, Current or Voltage
- Special Electrical Angles
 - o Up to 340° MAX
- Wire Leads in place of Terminals
- ORDERING INFORMATION

Standard Part Number: Resistance: 6005-1003-030 $10K\Omega \pm 10\%$

NOTE: For additional configuration options, please contact customer care tesensors-ccamericas@te.com

- Shaft Modifications
 - Flats
 - Slots
 - o Steps
- Mounting Features
 - o Anti-rotation Pins
 - Bolt Flanges
 - Threaded Holes
- Environmental Capabilities
 - Moisture Seals
 - o High Shock & Vibe

NORTH AMERICA

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TE.com/sensorsolutions

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