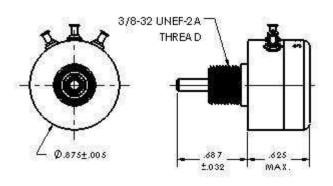
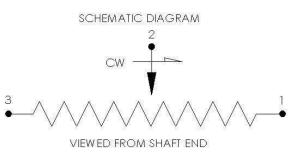


## **FEATURES**

- Less Space (7/8" Dia. Sizes)
- Greater Reliability
- Resolution
- Output Smoothness
- Special Linearity Options
- Mechanical Stops Option
- > Long Life
- Various Non-Linear Tapers, Taps, Multi-sections, Electrical Angles, Special Total Resistance





# **6209 ROTARY SERIES**

1KΩ, 2KΩ, 5KΩ, 10KΩ, 20KΩ • Precision Position Potentiometer 7/8" Dia. Bushing Mount Mounting Hardware Furnished

### **SPECIFICATIONS**

Industrial / Military Grade Rotary Position Sensor

Rotational Operating Life 100 x 10<sup>6</sup> 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 $\Omega$ to 20K $\Omega$ ±10%
ACTIVE ELECTRICAL ANGLE	340°
ELECTRICAL CONTINUITY ANGLE	344° MIN
INDEPENDENT LINEARITY	±0.5%
END VOLTAGE	0.5% MAX
VOLTAGE RESOLUTION	VIRTUALLY INFINITE
OUTPUT SMOOTHNESS	0.1% MAX
RESISTANCE TEMP. COEFFICIENT	400PPM/°C MAX
POWER RATING @ 70°C	1.0 WATT MAX
WIPER CONTACT CURRENT	10mA MAX
DIELECTRIC STRENGTH	750 VRMS @ 60Hz
INSULATION RESISTANCE	100mΩ MIN @ 500VDC

#### **MECHANICAL CHARACTERISTICS**

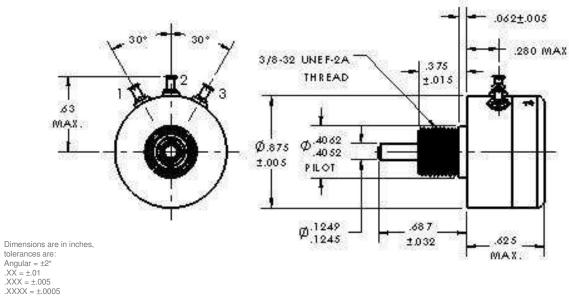
MECHANICAL ROTATION	CONTINUOUS
STARTING TORQUE	0.25 OzIn. MAX
RUNNING TORQUE	0.20 OzIn. MAX
TOTAL WEIGHT (1-GANG)	0.9 Oz. MAX
PILOT RUNOUT	0.001 In. TIR
SHAFT RUNOUT	0.001 In. TIR
SHAFT ENDPLAY	0.003 MAX
SHAFT RADIAL PLAY	0.001 In. TIR
LATERAL RUNOUT	0.002 In. TIR

### STANDARD MATERIALS

HOUSING AND COVER	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 <sup>6</sup> REVOLUTIONS MIN.



# AVAILABLE OPTIONS / CUSTOMIZATION

- Resistance Values
   500Ω to 50KΩ
- Tolerances
  - As low as ±5%
- Special Linearity
  - o As low as 0.15%
  - Absolute (Indexed)
  - o Or Independent over specified regions
- Additional Taps, Current or Voltage
- Current Limit Resistors
- Internal Circuit Components

   Caps, Diodes, etc.
- Special Electrical Angles
  - Up to 355° MAX
- Wire Leads or Cable in place of Terminals
- Special Transfer Functions
- Non-Linear Outputs
  - Load Compensation
  - Trig, Log, & Exponential Outputs
- Multi-gang Construction
  - Up to 6 on a common shaft (+ .320 Length per gang) or concentric shafting

#### **ORDERING INFORMATION**

Model Number:	Resistance:
6209-1000-030	1KΩ ±10%
6209-1001-030	2KΩ ±10%
6209-1002-030	5KΩ ±10%
6209-1003-030	10KΩ ±10%
6209-1004-030	20KΩ ±10%

- Shaft Modifications
  - o Lengths
  - o Rear Extensions
  - o Flats
  - o Slots
  - o Steps
- Torque or Detent
  - As low as .015 Oz-In. Starting Torque
- Mounting Features
  - o Anti-rotation Locking Pins
  - o Bushing Flats
  - o Slots
- Rotational Stops
- Ancillary Devices
  - Spring Returns
  - o Clutches
  - o Brakes
  - o Switches
- Environmental Capabilities
  - Moisture Seals
  - o High Shock & Vibe

#### **NORTH AMERICA**

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#### TE.com/sensorsolutions

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7/20/2017



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