

# Precision Wirewound Potentiometer - 7/8" (22mm)



#### **FEATURES:**

- special resistance tolerances to 1%
- · rear shaft extensions and support bearing
- non turn lug
- · insulating plastic shaft
- special independent linearity to ± 0.75%
- dual gang configuration and concentric shafts
- high torque and center tap
- · special markings and front shaft extensions
- servo unit available and slipping clutch

#### **ELECTRICAL SPECIFICATIONS:**

Resistance range, standard values:  $100 \Omega$  to  $100 K\Omega$ 

Capability range:  $10 \Omega$  to  $200 K\Omega$ 

Standard toll: ±5%

Linearity independent: ±0.25%

Noise:  $100 \Omega$  ENR

Rotation (electrical & mechanical): 3600° + 10%

Power rating @ 70°C: 2.0 watts

Insulation resistance:  $1000 \text{ M}\Omega$  minimum 500 VDC Dielectric strength: 1000 VRMS minimum 60 HZ

**Absolute minimum resistance:** not to exceed linearity x total

resistance or  $1\Omega$ , whichever is greater.

**Tempco:** 20 ppm/°C (standard values, wire only)

**End voltage:** 0.25% of total applied voltage, maximum

Phasing: CCW end points - section 2 phased toi section 1

within ± 2°

Taps: center tap only

### **ENVIRONMENTAL SPECIFICATIONS:**

Vibration: 15g thru 2000Hz

Shock: 50g

Rotational life: 1,000,000 cycles

Load life: 900 hours

Operating temperature range: -55°C to ±125°C

Moisture resistant salt spray: 96 hours

#### **MECHANICAL SPECIFICATIONS:**

Torque (maximums): starting Weight (maximums):

 Section 1: 0.5 oz - in (36gm - cms)
 Section 1: 0.75 oz (21.26 gm)

 Section 2: 0.9 oz - in (65gm - cms)
 Section 2: 1.25 oz (35.44 gm)

Torque (maximums): running Stop strength: 1.75 oz - in (static) (5.4Kgm - cm)

**Section 1:** 0.4 oz - in (28.80gm - cms) **Section 2:** 0.7 oz - in (50.40gm - cms)

Ganging: 2 sections maximum



# **DRAWING:**

# SINGLE SECTION DIMENSIONS in millimeters

