

# 534

(Including 533 & 535)

## Precision Wire Wound Potentiometers



The Model 534 10 turn precision wirewound potentiometer remains the primary choice in the wirewound market. With its many available special features which include two gang, rear shaft extensions, special shafts and dual concentric. The Model 534 continues to be designed into a wide variety of applications.

### ELECTRICAL

**Resistance Range:**

**Model 533:** Std. Values, 50 Ohms to 20K Ohms

**Capability Range:** 5 Ohms to 60K Ohms  
**Model 534:** Std. Values, 100 Ohms to 100K Ohms

**Capability Range:** 10 Ohms to 200K Ohms

**Model 535:** Std. Values, 50 Ohms to 50K Ohms

**Capability Range:** 5 Ohms to 100K Ohms  
**Standard Tol.** ±5%

**Linearity (Independent):**  
 ±0.25%

**Noise:**  
 100 ohms ENR

**Rotation (electrical & Mechanical):**

**Model 533:** 1080°C +10°C -0°C

**Model 534:** 3600°C + 10°C -0°C

**Model 535:** 1800°C + 10°C -0°C

**Power Rating (@ 70°C):**

**Model 533:** 1.0 watt

**Model 534:** 2.0 watts

**Model 535:** 1.5 watts

All units derated to zero at 125°C

**Additional Sections:** 75% of section 1

**Insulation Resistance:**

1000 megohms min. 500 vdc

**Dielectric strength:**

1000 volts rms. min. 60Hz

**Absolute min. Resistance:**

Not to exceed linearity x total resistance or 1 Ohm, whichever is greater

**Temperature Coefficient of Resistance:**

20 PPM/°C (standard values, wire only)

**End Voltage:**

0.25% of total applied voltage, max.

**Phasing:**

CCW end points - section 2 phased to section 1 within ±2°

### MECHANICAL

**Bearing Type Bushing:**

Sleeve bearing

**Torque (maximums): starting**

534, 533,535

**Oz-in. (gm-cms):**

**1 Section** 0.5 (36) 0.7 (50)

**2 Sections** 0.9 (65) 1.1 (79)

**Weight (maximums):**

**1 Section** 0.75oz (21.26gm)

**2 Section** 1.25oz (35.44gm)

**Stop strength:**

75 oz-in. (static) (5.4 Kgm cm)

**Ganging:**

2 sections maximum

### RESISTANCE VALUES

533- 50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K

534- 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 50K, 100K

535- 50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 50K

### MARKING

**Unit Identification:**

Manufacturer's name and model number, resistance value and tolerance, linearity specification date code and terminal identification.

### ENVIRONMENTAL

**Vibration:** 15g thru 2000 Hz

**Shock:** 50g

**Rotational Life:** 533 534 535

**(shaft revolutions)** 300,000 1,000,000 500,000

**Load Life:** 900 hours

**Temperature Range:** -55°C to +125°C

**Moisture Resistant Salt Spray:** 96 hours

