

## 200-SERIES RESISTANCE STANDARDS

- *REFERENCE RESISTANCE STANDARDS*
- *LOW TEMPERATURE COEFFICIENTS*
- *EXCELLENT STABILITY*
- *HIGH IMMUNITY FROM ENVIRONMENTAL EFFECTS*
- *RECOMMENDED FOR USE IN OIL AT 25°C*

The 200-Series Resistance Standards are designed as primary laboratory references for maintaining the ohm at levels from one ohm to ten megohms.

Based on the most recent research in materials and processing, each standard is individually wound and carefully treated for extremely low temperature coefficients of resistance and excellent long term stability.

Oil-filled and hermetically sealed, these standards are highly immune from changes in barometric pressure and relative humidity.

The gold plated terminals feature independently rotating barrels to reduce lead wire deformation.

All models are supplied with a traceable report of calibration, including temperature coefficient data.



In addition to decade values, the 200-Series are offered in –T values for thermometry, and –Q values for use with a Quantum Hall System.

Special values are available upon request.

| Model Number | Nominal Resistance | Tolerance in ppm | Rated Current | Typical Coefficients  | Initial 12 mo. Stability |
|--------------|--------------------|------------------|---------------|---|--------------------------|
| 200          | 1 Ohm              | <3               | 100 mA        | Temperature:<br>$\alpha < 1 \text{ ppm} / ^\circ\text{C}$<br>$\beta < 1 \text{ ppm} / ^\circ\text{C}$ | <2 ppm                   |
| 201          | 10                 | <5               | 30            |   | < 3                      |
| 201-T        | 25                 | <5               | 25            |   | < 3                      |
| 202          | 100                | <3               | 10            |   | < 3                      |
| 203          | 1 K                | <5               | 3             |   | < 3                      |
| 203-Q        | 6.4 K              | < 10             | 1.25          | Voltage<br>< 0.1 ppm / V  | < 5                      |
| 204          | 10 K               | <3               | 1             |   | < 2                      |
| 204-Q        | 12.9 K             | < 10             |               |   | < 5                      |
| 205          | 100 K              | <5               | 0.3           | Pressure<br>< 0.1 ppm / kPa   | < 3                      |
| 206          | 1 Meg              | <5               | 0.1           |   | < 3                      |
| 207          | 10 Meg             | <10              | 0.03          |   | < 5                      |

### Notes:

Tolerance is accuracy at time of manufacture  
Temperature coefficient is at nominal 25°C +/-5°C.

### Physical:

127 mm dia. x165 mm high (5" x 6.5"); 4.5 kg (10 #)

### Accessories available:

Lifting tool, for removing from oil bath  
(may be used with any similar resistor)

