200-SERIES RESISTANCE STANDARDS

- REFERENCE RESISTANCE STANDARDS
- Low Temperature Coefficients
- STABLE OVER TIME
- HIGH IMMUNITY FROM
 ENVIRONMENTAL EFFECTS
- MAY BE USED IN OIL OR AIR

Ohm-Labs' 200-Series Reference Resistance Standards are designed for maintaining the ohm at levels from 1 ohm to 10 megohms.

Each standard is individually wound from selected nickel-chromium alloy wire, which is carefully heat treated for near zero temperature coefficients of resistance. They are optimized for use at customer specified 20, 23 or 25 °C. All models include an internal 10 K thermistor temperature sensor.

After initial settling, the long term drift is typically less than $0.2~\mu\Omega/\Omega$ per year for most models.

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

100 $K\Omega$ and above include BPO connectors and internal guarding, for use as 4-wire, 2-wire or guarded standards.





MODEL 200 1 Ω AND 206 1 M Ω

Their rugged design allows commercial transport without shifts in value; this has been verified by repeated ground shipping.

All models include ISO 17025 accredited calibration, with 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 with equivalent specifications are available upon request.

All Ohm-Labs resistance standards carry a five vear warranty.

Model	Nominal	Tolerance	Rated	Typical	12 Month
Number	Resistance	in ppm	Current	Coefficients	Stability *
200	1	<2	100 mA		<0.1 ppm
201	10	<2	30 mA	Temperature:	< 0.2
201-T	25	<2	25	lpha < 0.1 ppm / °C	< 0.2
202	100	<2	10	β < 0.01 ppm / °C	< 0.2
203	1 K	<3	3	р чолот рршт о	< 0.3
203-Q	6.4 K	<5	1.25	Voltage	< 0.3
204	10 K	<2	1	< 0.1 ppm / V	< 0.2
204-Q	12.9 K	< 10	1	· 0.1 ppiii / v	< 0.3
205	100 K	<5	0.3	Pressure	< 0.3
206	1 Meg	<5	0.1	< 0.001 ppm / kPa	< 0.5
207	10 Meg	<10	0.03	1 1 1 1	< 1

Notes:

* Long term. For first year, allow 2x this amount Tolerance is accuracy at time of manufacture Temperature coefficients are at 20, 23 or 25 °C.

Physical:

13 cm dia. x 17 cm high (5 x 6.5 in); 4 kg (8 lbs)



Excellence in Resistance

ISO 17025 accredited calibration included.