

LOW RESISTANCE STANDARDS

- REFERENCE RESISTANCE STANDARDS
- EXCELLENT STABILITY
- OPTIMIZED FOR 20, 23 OR 25 °C
- 1 OHM TO 10 MICRO-OHMS

Ohm-Labs' 2000-series Low Resistance Standards are designed as primary laboratory references for maintaining the ohm at levels below one ohm.

Based on recent advances in materials processing, these standards are designed to provide excellent long term stability.

Models 2000 to 2003 (1 ohm to 0.001 ohm) have a nickel-chromium alloy element, carefully heat treated for low temperature coefficients of resistance (TCR).

Models 2004 and 2005 (100 and 10 micro-ohms) are made with Manganin alloy elements, housed in a perforated can for improved dissipation of heat.

All models include a 10 K thermistor bonded to the resistance element; a RTD sensor is also available.

All models include ISO 17025 accredited calibration, including temperature coefficient data.

2000-series standards are available in intermediate values by special order.



MODEL 2005 10 MICRO-OHM STANDARD

For secondary low resistance standards, please see our 1000-series resistors. For accurate current measurement, please see information on our precision current shunts.

Model Number	Nominal Resistance	Tolerance in ppm	Rated Current	Temperature Coefficients
2000	1 Ohm	<3	1 Amp	<1 ppm/°C
2001	0.1	<3	3	<1
2002	0.01	<10	10	<2
2003	0.001	<20	30	<5
2004	0.000 1	<50	100	<20
2005	0.000 01	<100	500	
Special Values available on request – use the following format				
Specify 20(X)(Y)	20 = 2000 Series	X = Resistance Y = Range	2051 = 0.5 2023 = 0.002	

Notes:

- Initial 12 month stability < 10 ppm
- Tolerance is accuracy at time of manufacture
- Temperature coefficients are at 20, 23 or 25 °C +/-5 °C.

Physical:

- 2000 - 2004: 9 cm dia. X 16 cm high (3.5 x 6.25 in); 1.5 kg (3 lbs)
- 2005: 27 cm dia. X 31 cm high (10.5 x 12 in); 7 kg (14 lbs)



ISO 17025 accredited calibration included.

