

1000 SERIES LOW RESISTANCE STANDARDS

- *HIGH STABILITY*
- *LOW TEMPERATURE COEFFICIENTS*
- *WIDE CURRENT RANGE*
- *1 Ω AT 1 A TO 10 μΩ AT 300 A*



MODEL 1004

Ohm-Labs' 1000-series low resistance standards are highly stable resistors designed for laboratory or on-site calibration use.

The report of calibration provides complete characterization, with temperature coefficient determination up to full rated current.

The low temperature and power coefficients allow them to be used in a variety of environments without loss of accuracy. They are not significantly affected by changes in barometric pressure or relative humidity, and are will withstand moderate vibration and shock. They feature low reactance, allowing their use as both dc or ac standards.

All models are housed in a rugged, die-cast aluminum case. Internal shock-absorbing construction reduces the possibility of shifts in value due to vibration or impact.

Potential connections are made via gold plated five-way binding posts which accept bare wire, spade lugs or banana jacks.

Current connections are by binding posts or threaded studs, depending on current range.

All models are supplied with ISO17025 Accredited calibration, including data, traceability and uncertainty.

All models are available with an optional temperature sensor bonded to the resistance element. Decade values are standard; other values are available.

Model	Resistance	Current	TCR	Accuracy
1000	1 Ohm	1 A	<1	<20 ppm
1001	0.1	3	<1	<50
1002	0.01	10	<2	<50
1003	1 mOhm	30	<5	<100
1004	0.1	100	<20	<300
1005	0.01	300	<50	<1000

For special values, use the below examples:
1 =1000 series; X = Resistance; Y = Multiplier

Model	Current*	Resistance	Accuracy
1 05 0	1.4 A	0.5 Ohm	0.05%
1 25 4	63 A	0.000 25	0.5%

Stated accuracy includes calibration uncertainty, plus 0-100 % rated current, plus 18–30 °C operation, plus 12 month predicted stability.

Physical:

22.8 x 12.5 x 12.5 cm / 9 x 5 x 5 in; 2.5 kg / 5 lbs

