



Reference Series Standard Oil Resistors

- Decade Values 10 Ω , 100 Ω , 1 k Ω , 10 k Ω , 100 k Ω with Optional Carrying Case
- Temperature Coefficient $< 2 \times 10^{-7}/^{\circ}\text{C}$
- Long Term Drift $< 2 \times 10^{-7}/\text{year}$
- No pressure coefficient
- Maximum dissipation 300 milli-watts
- Highest performance dissipation 10 milli-watts

Model 9210B



Model 9210B Reference Series Standard Oil Resistors

Through Years of technological experience developing the most accurate and stable resistance standards available, Measurements International has developed the model 9210B Reference Series of Precision Standard Resistors. The 9210B uses oil-filled resistive elements housed in a sealed enclosure. This design offers immunity to changes in barometric pressure and humidity.

These resistance standards are designed to be used in the MI 9400 temperature controlled oil or 9300A Air bath to achieve their specifications. However, for optimal performance as a primary set of resistors, it is recommended that the resistors be placed in the Measurements International's Model 9400 Oil bath. Connections to the 9210B are made at the top of the resistor. The resistors are compact in design and can easily meet the need of sitting 4 inches below the top of the oil.

Connections to the 9210B are made using Tellurium Copper binding posts.

Interconnecting cable may also be ordered with the 9210B Resistance Standards. The interconnecting wire comes in either two or four conductor configurations. The wire may be ordered in lengths with screens already attached or in 100-meter rolls. No. 18 gauge solid copper, silver-plated, screened Teflon cable is recommended.

Each 9210B comes with a calibration report including the assigned value and temperature coefficient data. The small rugged design allows commercial transport.

For values above 100 k Ω see our 9331R and 9331G series' of resistors.



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Specifications: Rev 2

Model	Nominal Value Ohms	Tolerance \pm ppm*	First Year Drift (ppm)	Stability 12 Month (ppm)	Max Current (A)	TC at 25°C \pm 1°C (ppm/°C)	Maximum Voltage
**9210B/0.1							
**9210B/1							
9210B/10	10	2	2.5	1	0.1	0.1	1.0
9210B/25	25	2	2.5	1	0.063	0.1	1.58
9210B/100	100	2	2.5	1	0.031	0.1	3.16
9210B/1k	1 k	2	2.5	1	0.01	0.1	10.00
9210B/10k	10 k	2	2.5	1	0.003	0.1	31.62
9210B/100k	100 k	2	2.5	1	0.001	0.1	100.0

* Tolerance - Defined as the potential variance from the nominal resistance value at the time of manufacture. Due to the natural aging process, it is recommended that the resistance value be monitored closely for the first year of ownership.

** See 9210A/0.1 and 9210A/1 Data Sheet for more information.

Dimensions:

69 Dia x 97 H (mm)

Weight:

1 kg

Shipping Weight:

Provide with Quote

Main Power:

N/A

Corporate Headquarters

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