

Standard Resistor (Oil Cooled/Air Cooled)

Applications

For the Calibration of

- Earth Resistance Meter
- Micro/Mili Ohm Meter
- Ductor Tester
- RTD Temperature Indicators
- Contact Resistance Meter
- Kelvin Bridge
- Multimeter
- Load Cell and Strain Gauge



Series : 9409

Technical Data

Function	: Calibration Resistance Standard
Range	: 0.000001 Ω to 100.0 T Ω
Resistor Element	: Stain free non inductive Manganin coil/wire immersed in oil upto 100 k Ω and >100 k Ω epoxy coated high voltage resistors, hermetically sealed
Stability	: 1/3 of Accuracy (yearly)
Temperature Coefficient	: ≤ 10 ppm/ $^{\circ}$ C upto 100k Ω , 25 ppm/ $^{\circ}$ C from 0.1 M to 1.0 G Ω ≤ 100 ppm/ $^{\circ}$ C from 1.0 G to 1 T, 250 ppm/ $^{\circ}$ C above 1 T
Voltage Coefficient (Applicable above 5 kV)	: 3 ppm/volt ≥ 100 k Ω to 1 T Ω , 12 ppm/volt > 1 T Ω
Instrument Housing	: Metallic Container
Maximum Voltage to Case	: 2000 volt
Dielectric Voltage	: 500 volt AC for one minute
Terminals	: Brass/Copper
Calibration Certificate (Optional)	: ISO/IEC 17025 compliant or Factory Calibration Certificate
Accessories (Optional)	: Carrying case & Connecting Cables.

Type	Resistance (Ω)	Maximum Current (A)	Max. Power Dissipation (W)	Accuracy ($\pm$)
9409HP	0.000001	2000	4.0	5.0 %
9409HP	0.00001	2000	40.0	1.0 %
9409HP	0.0001	1000	100.0	0.5 %
9409A	0.001	31.6	1.0	0.1 %
9409B	0.01	10	1.0	0.05 %
9409C	0.1	3.16	1.0	0.02 %
9409D	1	1.0	1.0	0.01 %
9409E	10	0.316	1.0	0.01 %
9409F	100	0.1	1.0	0.01 %
9409G	1 k	0.0316	1.0	0.01 %
9409H	10 k	0.01	1.0	0.01 %
9409I	100 k	3.16 m	1.0	0.05 %

Type	Resistance (Ω)	Max. Voltage (V)	Accuracy ($\pm$)
9409J	1 M	1000	0.1 %
9409K	10 M	1k/5k/10k	0.5 %
9409L	100 M	1k/5k/10k	0.5 %
9409M	1 G	1k/5k/10k	1.0 %
9409N	10 G	1k/5k/10k	1.0 %
9409O	100 G	1k/5k/10k	2.0 %
9409P	1 T	1k/5k/10k	5.0 %
9409Q	10 T	1k/5k/10k	5 %
9409R	100 T	1k/5k/10k	15 %