

MODEL NUMBER:
MRL0.5

Measuring Resistor 0.5 Ohm
500 mΩ, 200 Watts



DESCRIPTION

High power resistor with low inductance.

STANDARD SPECIFICATIONS

Resistance	500 mΩ
Max. continuous power rating	200 W / 20A
Weight	3 kg
Dimensions (W/H/D)	160 x 138 x 210 mm

GENERAL

The “Resistor 0.5 Ohm” is a measuring resistor which can be used in systems where magnetic fields have to be generated. When connected in series between an amplifier and a Helmholtz coil, the current can be measured indirectly.

The voltage drop is proportional to the current through the coil. It can be used for testing according to MIL-STD-461 (CS101) and ISO 11452-10.

The low inductive construction allows to use the “Resistor 0.5 Ohm” in a wide frequency range. Individual correction values for $|Z|$ are provided in the calibration certificate from DC to 200 kHz.

Helmholtz coils act like a short circuit at low frequencies. The “Resistor 0.5 Ohm” provides a protection circuit for the amplifier and has a resistive minimum load.

TYPICAL IMPEDANCE OF “RESISTOR 0.5 OHM”

