



Helmholtz Coil

MCHF 4320

- MIL-STD-464C-2010
- GJB 1389B-2022
- GJB 8848-2016

Features

- > The coil can work continuously and the output magnetic field strength is stable;
- > The uniform region of magnetic field space is very wide;
- > The linear relationship between magnetic field and current is good;
- > Mobile design, suitable for field testing;
- > High pulse field strength, fast pulse rise time.

Introduction

Helmholtz coils are used to generate standard magnetic fields and have a wide range of applications. They can be used for calibration of Hall probes and various magnetometers, compensation of geomagnetic fields, determination of magnetic shielding effects, measurement and exclusion of space radiation magnetic fields, and research on material magnetic properties; Spacious and easy to use; There is a good linear relationship between magnetic field and power supply current, and there is a wide uniform area in the magnetic field space. Meet the requirements of MIL-STD-464C, GJB 1389B, and GJB 8848.

Application Areas



Technical Parameters

Maximum Magnetic Field Strength	3200 A/m
Maximum Coil Current	10000 A
Maximum Magnetic Field Change Rate	2.2×10^9 A/m/s (10%~90% peak range)
Normalized Coil Factor	0.16
Total Number of Turns	2
Coil Edge Length	4000 mm
Coil Spacing	2180 mm
Total Inductance of Coil	≤ 50 μ H
DC Resistance	≤ 20 m Ω
Weight	About 300 kg

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