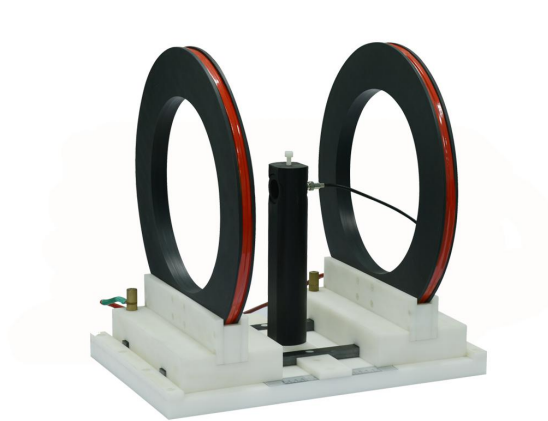


Helmholtz coil

HHS5024-12



As per

- > ISO 11452-8
- > MI-STD-461F RS101

Description

The magnetic field strength produced by Helmholtz coil HHS 5024-12 of 20cm semi-diameter can be calculated by current ($H = 42.93 \times I$), or use sensor coil of 13.3 cm diameter (36-turn) to measure in the center. Helmholtz coil fully comply with MI-STD-461F RS101 and ISO 11452-8 standard for magnetic field immunity test.

Features

- > low frequency magnetic field immunity test as per ISO 11452-8, frequency range: 15Hz – 150kHz
- > internal magnetic field calibration device

Industries

- | | |
|-----------------|--------------|
| > Communication | > Technology |
| > Telecom | > Military |
| > Medical | > Avionics |
| > Broadcast | > New energy |
| > Railway | |

| Parameters | |
|---|--------------------------|
| Model | HHS5024-12 |
| Max. current | 60 A, 5 min. |
| Rated current | 30 A continuous |
| coil space | 200 mm, 250 mm, 300 mm |
| following data when the space is 200mm | |
| Max. magnetic field strength | 2500 A/m, 5 min |
| Rated magnetic field strength | 1288 A/m continuous |
| Magnetic field strength when coil current is 1A | 42.93 A/m |
| Current | 152.66 dB μ A/m |
| current needed for 1 A/m | 23.29 mA |
| transfer factor between current and strength | 32.66 dB/m |
| coil diameter | 400 mm |
| size | 0.38 m x 0.58 m x 0.42 m |
| frequency range | 15 - 500 kHz |
| Inductance (each coil) : | 120 μ H |
| Inductance (a pair of coil) : | 240-260 μ H |
| resistance (each coil) : | 47.5 mW |
| capacitance (a pair of coil) : | 52 pF |
| Harmonic frequency (a pair of coil) | > 1.4 MHz |
| weight | 10.2 kg |

| accessories (included in the basic equipment) | |
|---|---|
| connection cable | 2 |
| calibrated clamp for magnetic field | 1 |
| calibration report | 1 |
| user manual | 1 |



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