

## Helmholtz coils

### Low frequency Magnetic Field Susceptibility testing

Helmholtz coil is a candidate test apparatus for low frequency magnetic field susceptibility testing on military equipment and subsystems. Use of this coils reduce electromagnetic compatibility (EMC) qualification tests time, and subject the equipment under test (EUT) to a relatively uniform field.

<b>Reference standard:</b>	MIL-STD-461C test method RS01 or more recent MIL-STD-461D test method RS101.  IEC 61000-4-8 / EN 61000-4-8  IEC 61000-4-9 / EN 61000-4-9
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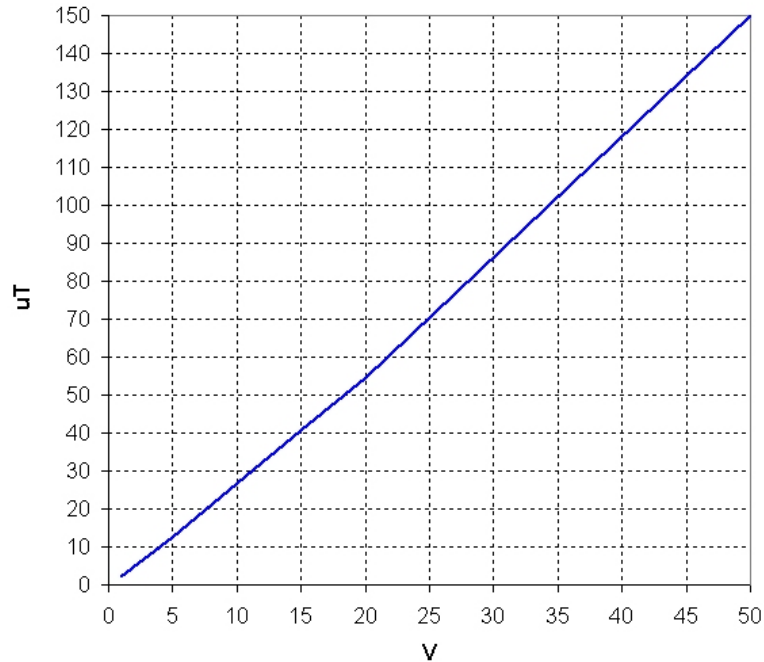
### Specifications

<b>Specimen support</b>	Adjustable with optic fibre feed-through.
<b>Input</b>	Push and hold button
<b>Insulate material</b>	Marine multi-layer wood
<b>Ring diameter</b>	100cm. Mod. HLM10; 80cm. Mod.HLM08.
<b>Typical resistance</b>	3,1 Ohm Mod.HLM10; 2,3 Ohm Mod. HLM08
<b>Max. Input Current</b>	10-15 Amp.
<b>Max. Pulse Current 200mSec.</b>	100 Amp.
<b>Max. Field</b>	2000 Amp/m and 20000 Amp/m for pulse
<b>Frequency</b>	DC to 30MHz
<b>Dimensions</b>	130x100x66cm (HLM-10) ; 110x80x66cm (HLM-08) ;

**Mod. EMC HLM-08, 2x0,8mt Coils. R=2,3 Ohm Impedance. 50Hz signal test**



**Andamento Induzione Magnetica (B)**



**Mod. EMC HLM-10, 2x1 mt Coils. R=3,10hm impedance. 50Hz signal test.**



**Andamento Induzione Magnetica (B)**

