

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.

Reference standard:	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

Specimen support	Adjustable with optic fibre feed-through.
Input	Push and hold button
Insulate material	Marine multi-layer wood
Ring diameter	100cm. Mod. HLM10; 80cm. Mod.HLM08.
Typical resistance	3,1 Ohm Mod.HLM10; 2,3 Ohm Mod. HLM08
Max. Input Current	10 Amp.
Max. Pulse Current 200mSec.	100 Amp.
Max. Field	500 Amp/m and 5000 Amp/m for pulse

Frequency	DC to 30MHz
Dimensions	130x100x66cm (HLM-10) ; 110x80x66cm (HLM-08) ;

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

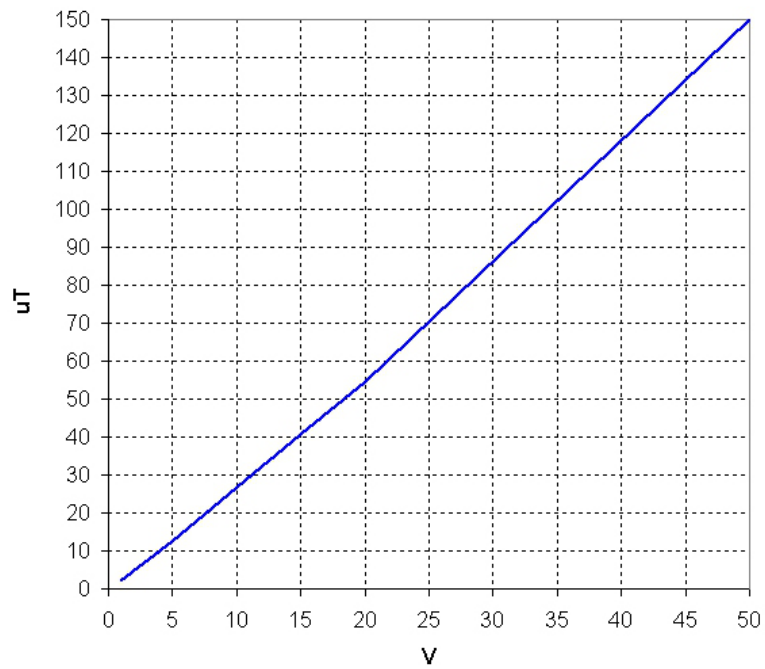


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Andamento Induzione Magnetica (B)



Mod. EMC HLM-10, 2x1 mt Coils. R=3,1Ohm impedance. 50Hz signal test.

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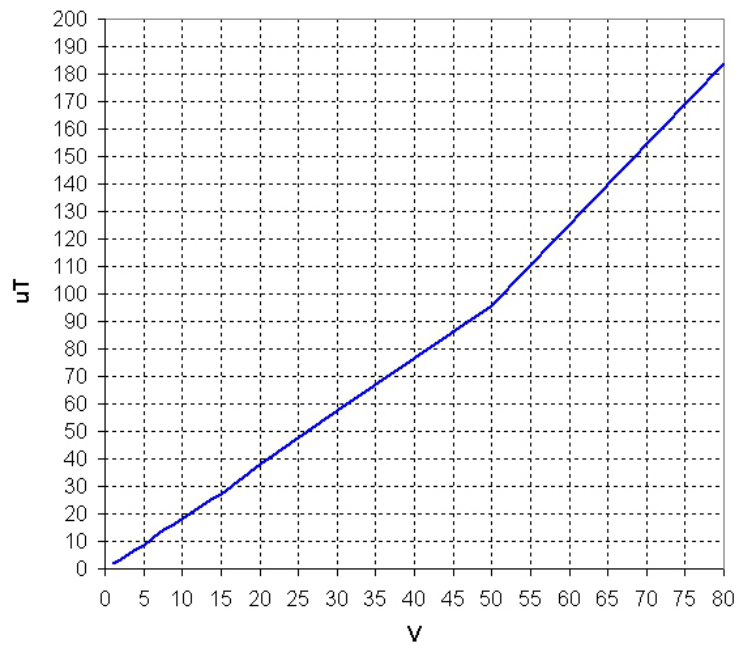


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