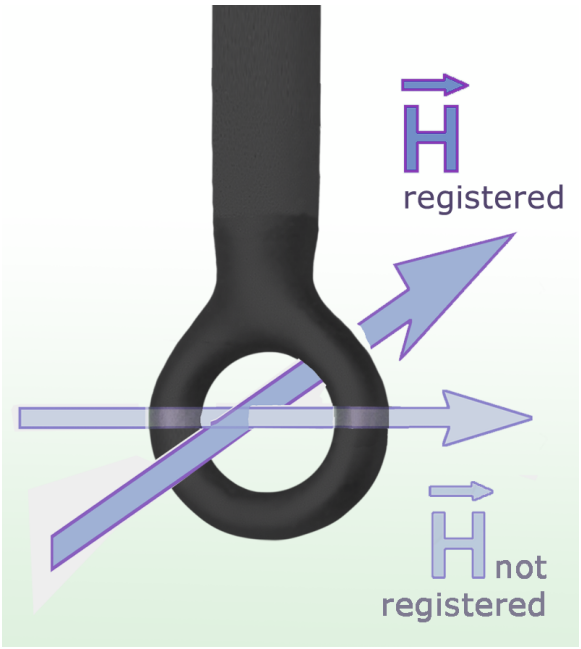
RF-R 50-1

H-Field Probe 30 MHz up to 3 GHz



Short description

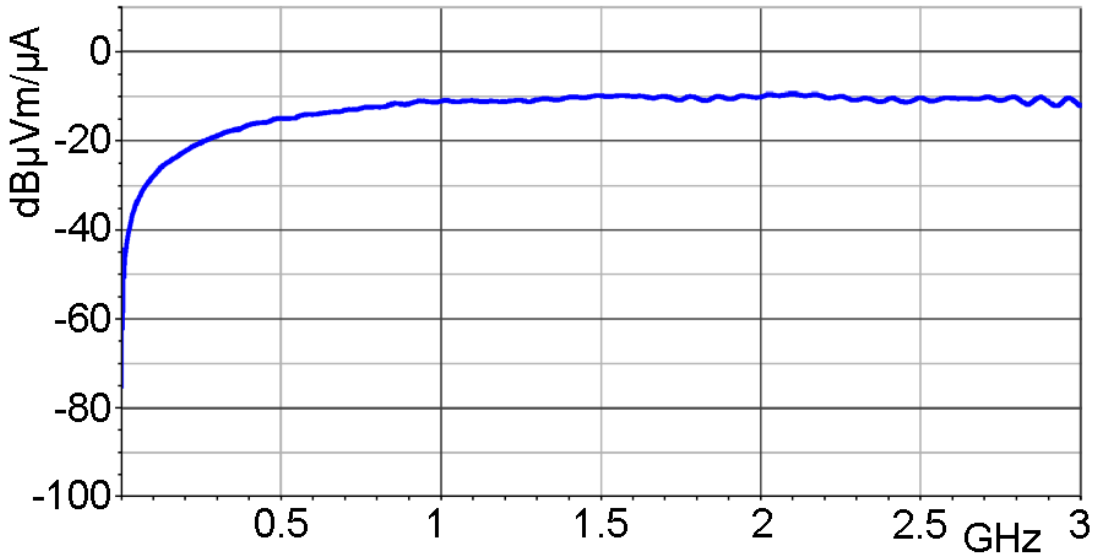
The RF-R 50-1 H-field probe is designed for measurements at assemblies, devices, or cables at distances up to approx. 3 cm. The H-field probe can identify larger components as interference sources.

The RF-R 50-1 is a passive near-field probe. Due to its medium size diameter (10 mm) it covers less of the magnetic field and is, therefore, less sensitive in comparision to the RF-R 400-1 probe. The RF-R 50-1 probe has a higher resolution than RF-R 400-1. In contrast to the H-field probe RF-R 3-2, the RF-R 400-1 covers more of the magnetic field and is more sensitive. As a result it has a lower resolution. It has a current attenuating sheath and, is therefore, electrically shielded. It can be connected to a spectrum analyzer or an oscilloscope with a 50 Ω input. The H-field probe does not have an internal terminating resistance of 50 Ω.

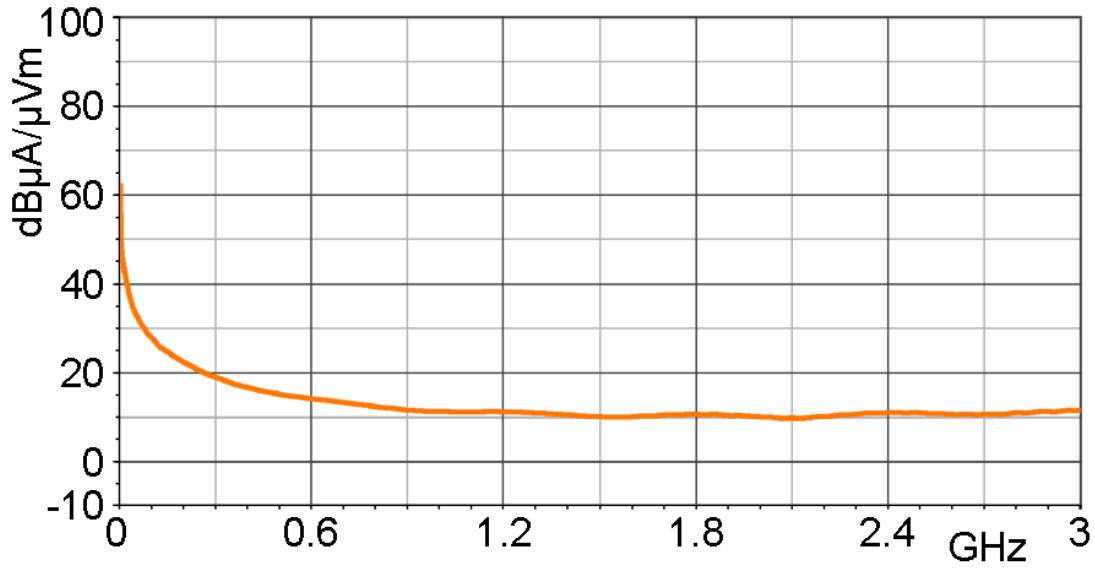
Technical parameters

Frequency range	30 MHz ... 3 GHz
Probe head dimensions	Ø ≈ 10 mm
Connector - output	SMB, male, jack
Weight	15 g

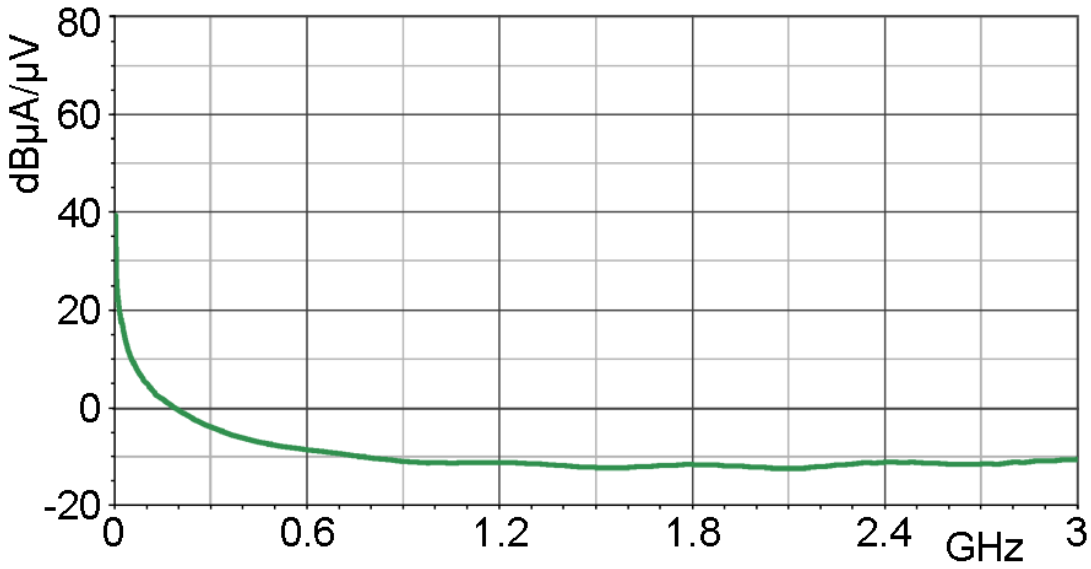
Frequency response [dBµV] / [dBµA/m]



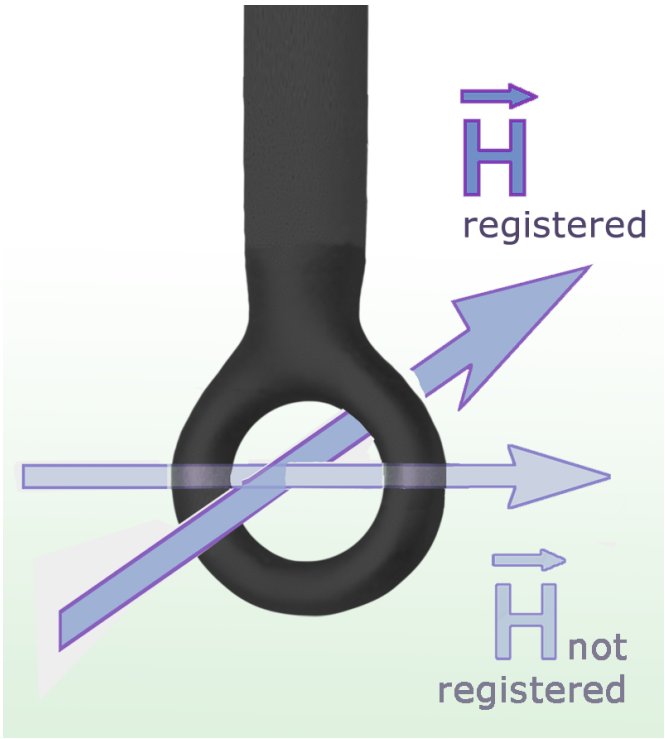
H-field correction curve [dBµA/m] / [dBµV]



Current correction curve [dBµA] / [dBµV]



Measuring principles



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Probe head