

MFA-R 0.2-75 set

微型近场探头 (1MHz-1GHz)



Short description

该微型近场探头的分辨率高，在磁场检测方面性能优异，可以测量信号线 (150 μm)、SMD元器件 (0603-0201) 或者IC引脚上频率在1GHz以内的磁场。这种MFA-微型近场探头是手持式探头。

在探头上集成有一个放大器。放大器的电源 (9V, 100mA) 由BT 706型偏置器提供。偏置器的阻抗为50欧姆。近场探头通过706型偏置器与频谱分析仪或者示波器相连。Langer EMV 科技公司还提供该近场探头的校正特性曲线。用校正特性曲线可以将探头的输出电压换算为相应的磁场或电流值。探头使用其极小的探测头直接测量模块上譬如IC引脚、精细导体或者最小封装的SMD器件 (0603-0201) 周围的高频磁场。

The MFA-R 0.2-75 is a hand-guided, active magnetic field micro probe that requires the BT 706 bias tee to operate. In principle, the MFA-R 0.2-75 has the same structure as the MFA-K 0.2-6, differing only in its frequency response.

The coil opening at the probe head is laterally marked with black dots.

An amplifier stage is integrated into the probe head. The amplifier stage (9 V, 100 mA) is powered via the bias tee. It has an impedance of 50 Ω . The near-field micro probe is connected to a spectrum analyzer or oscilloscope with a 50 Ω input via the BT 706 bias tee. A power supply unit and the bias tee are included in the scope of delivery.

With the help of the correction lines, the probe's output voltage is converted into either the respective magnetic field or the current running through the conductor.

The near-field micro probe is small and handy. It has a current attenuating sheath and is electrically shielded.

Delivery content

- 1x MFA-R 0.2-75, 微型近场探头 (1MHz-6GHz)
- 1x BT 706, T型偏置器
- 1x SMA-SMA 1 m, SMA-SMA 测量电缆
- 1x NT FRI EU
- 1x MFA case, System case
- 1x MFA acc

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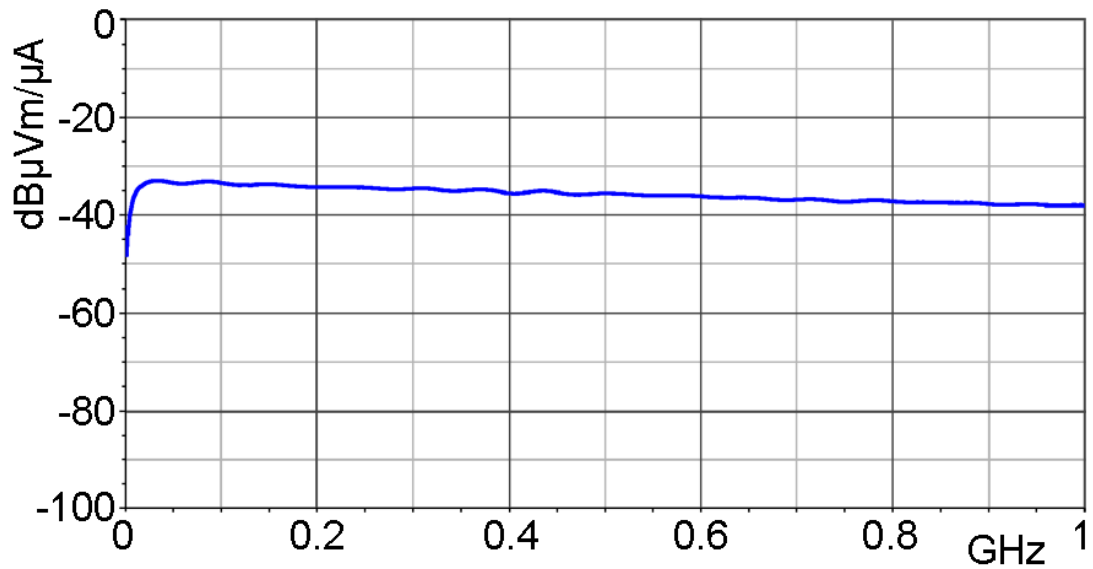
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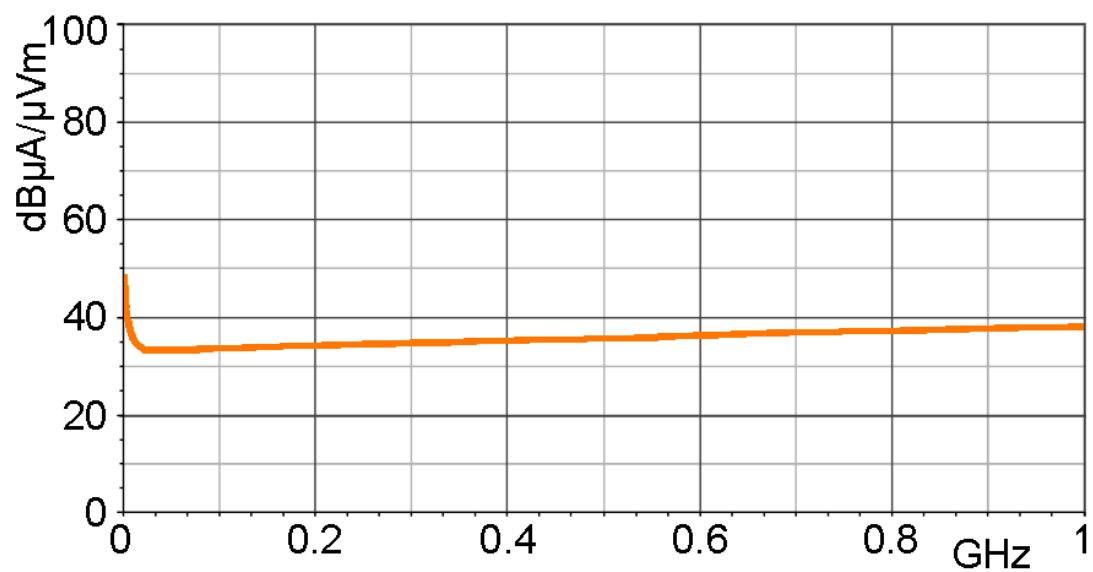
Technical parameters

频率范围	1 MHz ... 1 GHz
分辨率	300 μm
输出接口	SMA, female, jack

频率特性 [dB μV] / [dB $\mu\text{A}/\text{m}$]



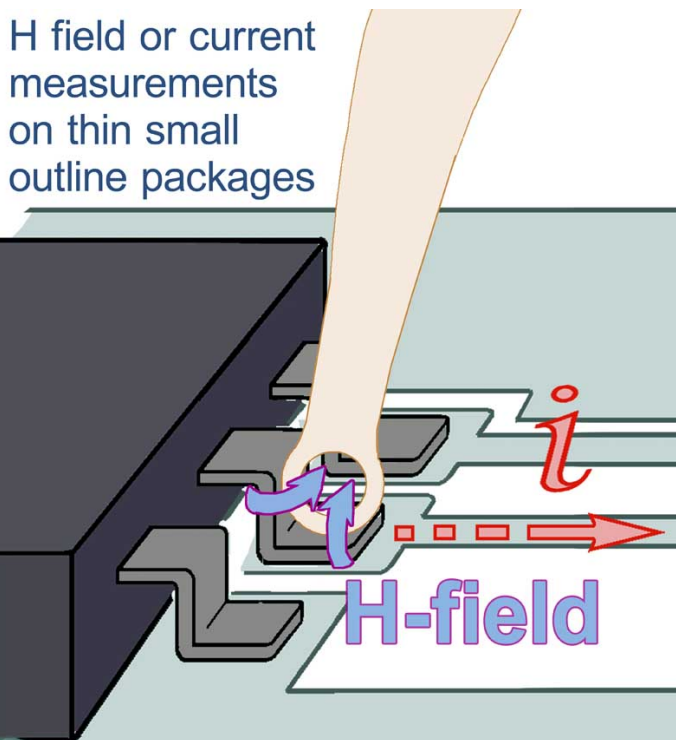
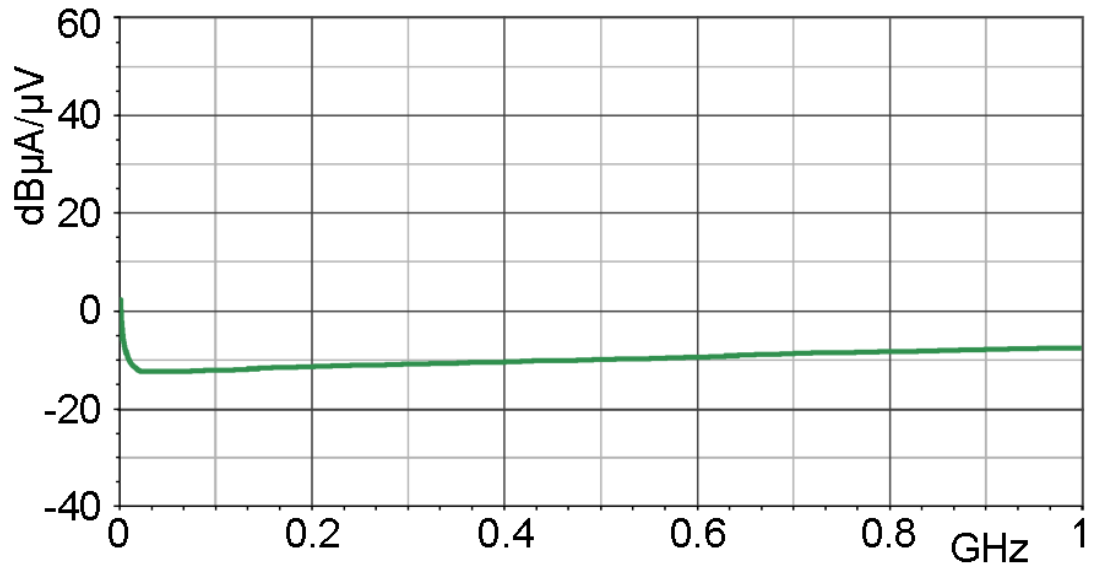
磁场校正曲线 [dB $\mu\text{A}/\text{m}$] / [dB μV]



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电流校正曲线 [dB μ A] / [dB μ V]



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Probe head



Application

