

## MFA-K 0.1-12 set

微型近场探头 (100MHz-6GHz)



### Short description

MFA-K 01-12型微型近场探头特别适用于检测信号线 (150  $\mu\text{m}$ ) 或IC引脚上频率在6GHz以内的磁场。通过采用特殊的探头结构,可以避免探测到邻近导线作用于探头上的磁场。这种手持式MFA-微型近场探头分辨率高,性能优异。

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。

The hand-guided, high resolution MFA-K 0.1-12 is an active near-field micro probe that requires the BT 706 bias tee to operate. The near-field micro probe is used to measure magnetic fields up to 6 GHz especially at signal conductors (150 $\mu\text{m}$ ) or IC pins. In principle it has the same structure as the MFA-K 0.1-30, differing only in its frequency response. Due to the special probe head design, magnetic fields which impinge the probe head laterally, e.g. from adjoining conductors, are not detected.

The direction of the coil is marked on the probe head with a black dot.

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  $\Omega$ . The near-field micro probe is connected to a spectrum analyzer or oscilloscope with a 50  $\Omega$  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-K 0.1-12, 微型近场探头 (100MHz-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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## Technical parameters

频率范围	100 MHz ... 6 GHz
分辨率	200 $\mu\text{m}$
输出接口	SMA, female, jack

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



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

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

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电流校正曲线 [dB $\mu$ A] / [dB $\mu$ V]



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Probe head



Application

