



Contents:

- H-field probe MFA-R 0.2-6
- H-field probe MFA-R 0.2-75
- H-field probe MFA-K 0.1-12

- Bias-Tee BT 706
- Power plug-in supply, type EU or US
- Cable SMA-SMA
- Case (340 x 240 x 55) mm
- Short instruction



Instructions

The probes in the MFA 01 set have special electrically shielded active micro probe heads which have been designed for detailed magnetic field measurements in the frequency range from 1 MHz up to 6 GHz in the layout, on components and IC pins.

The probe heads are embedded in a layer to protect them against destruction. All micro probe heads have an integrated pre-amplifier stage. The bias tee supplies the amplifier stage with 9 V / 100 mA power. It is connected to the 50 Ω input of a spectrum analyser and comes complete with a plug-in power supply unit. The MFA probes, bias tee and cable are equipped with SMA connectors.

NEAR FIELD PROBE SET MFA 01 FREQUENCY RANGE 1 MHz up to 6 GHz

Application	Description	Characteristic
<p>MFA-R</p> <p>H field or current measurements on thin small outline packages</p> <p>H field</p>	<p>Probes MFA-R 0.2-75 and MFA-R 0.2-6:</p> <p>The MFA-R probes have been developed for measurements on the smallest SMD components (0603-0201) on PCBs. Even very fine conductor runs and SMD or IC pins can be measured. The probe voltage can be converted into the respective magnetic field or the current flowing in the conductor with the correction data.</p> <p>The two MFA probes allow measurements in special frequency ranges:</p>	<p>Frequency range probe MFA-R 0.2-75</p>
<p>H_{RF} magnetic field or i_{RF} current measurements on conductor runs</p> <p>MFA-R</p> <p>H_{RF}</p> <p>i_{RF}</p>	<p>MFA-R 0.2-75: 1 MHz to 1 GHz MFA-R 0.2-6: 100 MHz to 6 GHz</p> <p>Resolution: 300 µm Use with: BIAS TEE</p>	<p>Frequency range probe MFA-R 0.2-6</p>
<p>$H_{z,y}$ magnetic field is not detected MFA-K</p> <p>$H_{x,z}$ magnetic field is detected</p> <p>H_{RF}</p> <p>i_{RF}</p>	<p>Probe MFA-K 0.1-12</p> <p>The design of the type K MFA probe simulates a current clamp. This probe type is thus able to measure currents on fine conductor runs and IC pins. Other magnetic field components from the vicinity are ignored in detection.</p> <p>Frequency range: 100 MHz to 6 GHz Resolution: 200 µm Use with: BIAS TEE</p>	<p>Frequency range probe MFA-K 0.1-12</p>