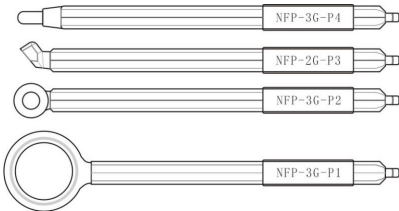


UTS-EMI01近场探头套件

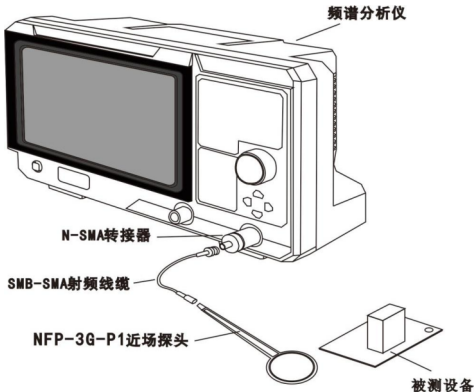
产品概述

探头用于配合优利德频谱分析仪进行电子产品的 EMI 测试，可用于检查元器件表面的磁场强度、磁场耦合通道以及电子模块附近的磁场环境，从而快速定位干扰源。此套件包含四款近场探头 NFP-3GP1、N FP-3G-P2、NFP-2G-P3、NFP-3G-P4。



测量连接

探头与频谱分析仪的连接方式如下图所示：



- 与频谱分析仪连接
使用SMA-SMB射频线缆分别连接探头的SMB(阳)头和N-SMA转接器的SMA(阴)头，再将N-SMA转接器的N(阳)头连接至频谱分析仪的射频输入端。
- 设备连接
探头与被测设备近距离非接触式测量。测量时，请注意近场探头的摆放方向。

典型应用

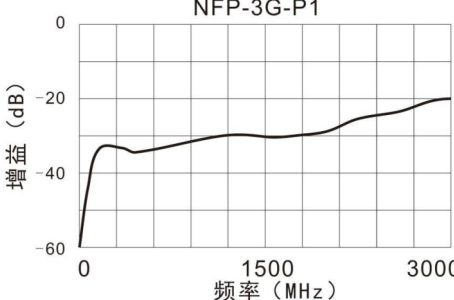
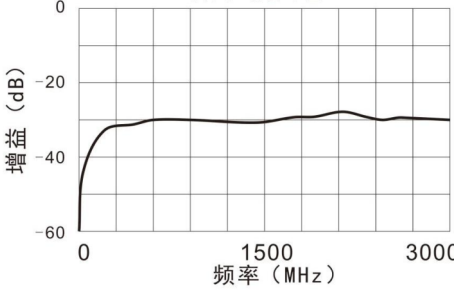
- EMI 辐射干扰源定位。
- 磁场强度检测。

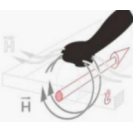
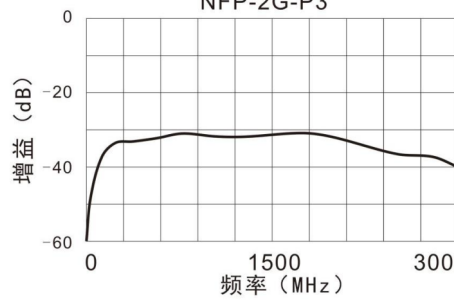
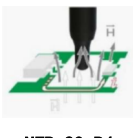
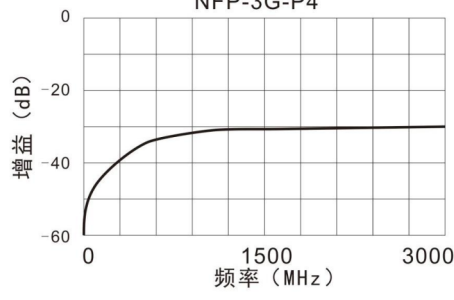
性能指标

频率	
频率范围	30MHz-3GHz

端口类型	
端口形式	SMB 公头
转接器	SMA 母头转N公头
射频线缆	SMA-SMB,1米
端口及转接器阻抗	50Ω

一般技术规格	
尺寸	230*180*45mm
重量	<1kg
工作温度	0℃至50℃
存储温度	-20℃至70℃

型号	说明
 NFP-3G-P1	磁场近场探头，可检查10cm范围内的磁场，主要用于机箱泄露测试。分辨率25mm左右。 
 NFP-3G-P2	磁场近场探头，可检查3cm范围内的磁场，分辨率10mm左右。 

型号	说明
 NFP-2G-P3	磁场近场探头，主要用于线缆电磁泄露测试。分辨率：5mm左右，频率范围：30MHz至2GHz。 
 NFP-3G-P4	磁场近场探头，可检测垂直方向发射的电磁场。主要用于PCB布线产生的电磁场测试。分辨率2mm左右。 

UTS-EMIO1 Near Field Probes Kit

Product Overview

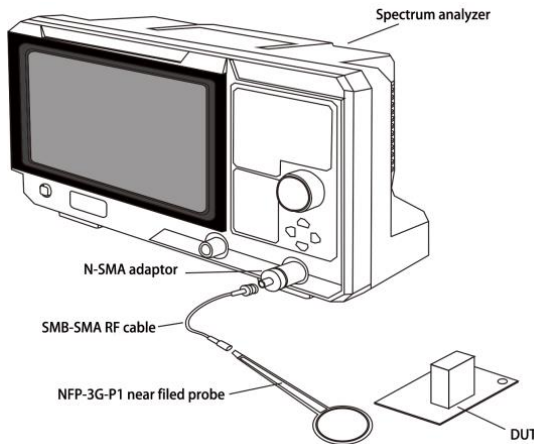
Near Field Probes are used in conjunction with the UNI-T spectrum analyzer for EMI testing of electronic products. It can be used to check the magnetic field strength on the surface of components, magnetic field coupling channels and the magnetic field environment near electronic modules to quickly locate the source of interference.

This kit contains four near-field probes NFP-3G-P1, NFP-3G-P2, NFP-2G-P3 and NFP-3G-P4.



Measurement Connection

Porbe in conjunction with spectrum analyzer as shown in the follwing figure.



- Porbe in conjunction with a spectrum analyzer
Use SMA-SMB RF cable to respectively connect to SMB male conntector of probe and SMA femal connector of N-SMA adaptor, and then connect N male conntector of N-SMA adaptor to RF input port of spectrum analyzer.
- Porbe in conjunction with a device
Probe and DUT close distance but non-contact measurement. Please notice the placement direction of the near-field probes when measuring.

Typical Application

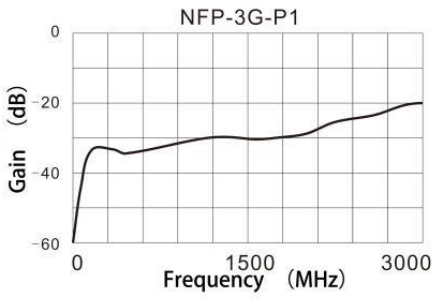
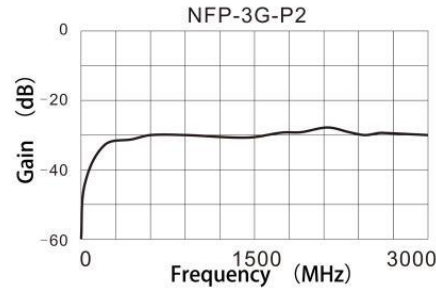
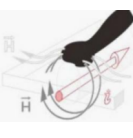
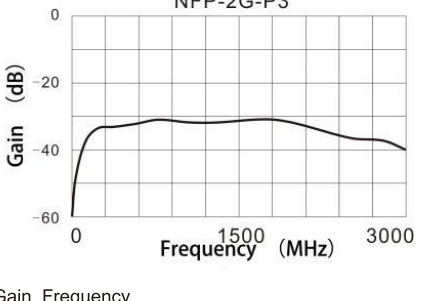
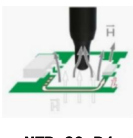
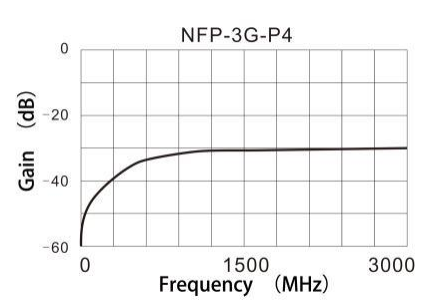
- Locating EMI.
- Detecting the strength of the magnetic fields.

Performance Index

Frequency	
Frequency range	30MHz-3GHz

Port Type	
Port	SMB male connector
Adaptor	SMA female connector convert to N male connector
RF cable	SMA- SMB, 1 meter
Impedance of port and adaptor	50 Ω

General Technical Specification	
Size	230*180*45mm
Weight	< 1kG
Working temperature	0°C~50°C
Storage temperature	-20°C~70°C

Model	Description
 NFP-3G-P1	NFP-3G-P1 can detect the magnetic field within 10cm. It is mainly used for case leakage test. The resolution is about 25mm.  Gain (dB) Frequency (MHz) Gain Frequency
 NFP-3G-P2	NFP-3G-P2 can detect the magnetic field within 3cm. It is mainly used for case leakage test. The resolution is about 10mm.  Gain (dB) Frequency (MHz) Gain Frequency
 NFP-2G-P3	NFP-2G-P3 is mainly used for cable electromagnetism leakage test. Resolution: 5mm. Frequency range: 30MHz-2GHz.  Gain (dB) Frequency (MHz) Gain Frequency
 NFP-3G-P4	NFP-3G-P4 can detect the magnetic field launched in vertical direction. It is mainly used to test the electromagnetic field generated by PCB wiring . The resolution is about 2mm.  Gain (dB) Frequency (MHz) Gain Frequency