



# NFP-3

Near-field Probe



DSA Series  
Spectrum Analyzer  
EMC Lab

Proudly Distributed By:

Instruments 4 Engineers Ltd  
Stockport Business & Innovation Centre  
Broadstone Mill, Broadstone Road  
Stockport, SK5 7DL United Kingdom

Tel: +44 (0) 161 871 7450  
info@Instruments4engineers.com

[www.instruments4engineers.com](http://www.instruments4engineers.com)

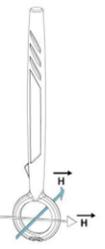
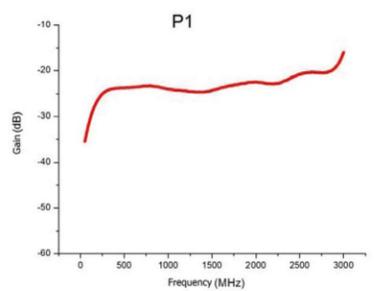
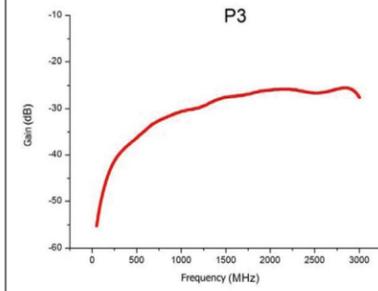
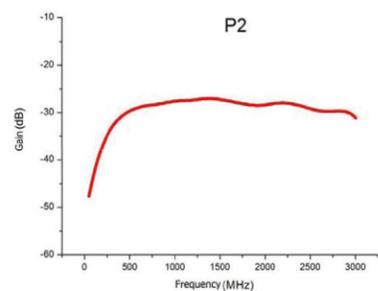
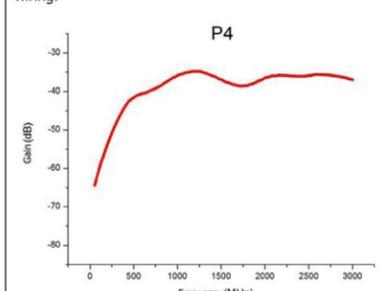


## Advantages and Characteristics

- Frequency Range: 30MHz to 3GHz
- One set includes four types of probe, provides optimized sensitivity and resolution
- Minimum resolution: 2 mm; able to capture near-field radiation of single circuit line
- Applicable for electromagnetic leakage testing inside the cable
- A measurement tool for EMI pre-conformance testing, troubleshooting, and design verification
- Determine frequency and relative intensity of the spectral components of the interference source

## Brief Technical Parameters

Frequency	
Frequency Range	30MHz to 3GHz
Terminal Type	
Terminal Type	SMB (M)
Adaptor	N (M)-BNC (F)
RF Cable	BNC (M)-SMB (F), 1000 mm
Terminal and Adaptor Impedance	50 $\Omega$

Model	Description	Model	Description
NFP-3-P1	Near field probe for magnetic field measurements. The test range is within 10 cm. It is used to locate the leakage field.  	NFP-3-P3	Near field probe for magnetic field measurements. The resolution is about 5 mm. It is used to test the electromagnetic leakage of the cables.  
NFP-3-P2	Near field probe for magnetic field measurements. The test range is within 3 cm. It is used to accurately test the leakage field.  	NFP-3-P4	Near field probe for magnetic field measurements. The resolution is about 2 mm. It can test the magnetic field in the vertical direction and the electromagnetic field generated by the PCB wiring.  

## Key Applications and Field

- Measurement requirements of SME production line for electromagnetic interference pre-testing
- Measurement evaluation requirements of electronic product design lab for electromagnetic interference signals
- Measurement requirements for electronics fans of electromagnetic interference
- Locate the source of the electromagnetic interference radiation
- Determine the frequency and relative intensity of spectral components of interference source
- Reduce the product development cycle, ensure product launch plan, and save the testing cost
- Applicable to RF industrial region, such as R&D, lower cost manufacture industry etc.
- Combined with the Microwave & RF education and training kit; applicable to RF education field; get to deeply understand the theories by practical operations

## NFP-3 Application Scenarios

NFP-3-P1, a near-field probe which can detect the magnetic field within a range of 10 cm. It is applicable for the leakage detection of magnetic field. For example, verification of shielding measurement, leakage testing for the chassis etc.



NFP-3-P2, a near-field probe which can detect the magnetic field within a range of 3 cm. It is applicable for detecting the magnetic environment around the modules. For example, accurately locating the leakage of the chassis, detecting the magnetic field direction and intensity of the circuit board module.



NFP-3-P3, a near-field probe which resolution is 5 mm. It is applicable for the detection magnetic field on surface. For example, the detection of the magnetic field produced by the wire, cable, metal surface, connectors, electronic components, and component joints.



NFP-3-P4, a near-field probe which resolution is 2 mm. It can detect the vertically emitted electromagnetic field. It is applicable for the detection of magnetic field where current loop exists. For example, electromagnetic field testing for PCB wiring, magnetic field testing for IC pins area etc



## Price and Application Solutions