

# Near field probes for Tektronix EMC pre-compliance

## EMI-NF-PROBE (TEKBOX TBPS01 offered by Tektronix)



The EMI-NF-PROBE is the TEKBOX TBPS01. This set of magnetic field and electric field probes is for radiated emissions EMC pre-compliance measurements. The probes are used in the near field of sources of electromagnetic radiation and serve to locate and identify potential sources of interference within the building blocks of electronic assemblies. The probes act similar to wide bandwidth antennas, picking up radiated emissions from components, PCB traces, housing openings or gaps, and from any other parts that could be emitting RF. The probes are usually connected to a spectrum analyzer.

### Key features

- Slim design for good access in between tightly spaced components
- Shielded loops to avoid picking up common mode noise; insensitive to the human hand
- Frequency range up to 6 GHz
- Insulated with rubber coating

### Applications

- Radiated EMC measurement
- RF immunity testing
- Contactless (load free) relative measurement of RF signal chains
- Contactless (load free) relative measurement of oscillators, modulators, etc.

# Specifications

**Near field probes**

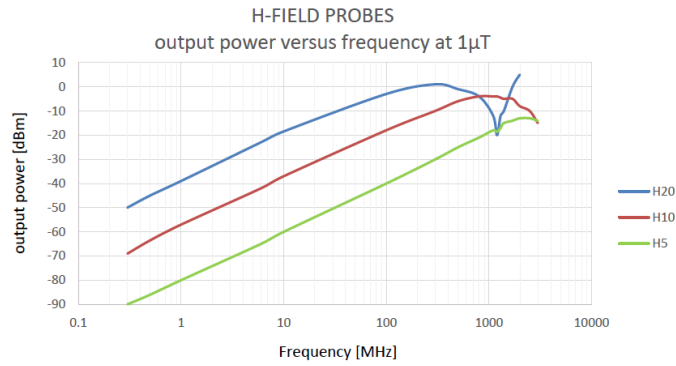
Frequency range 1 MHz –1 GHz

Preamplifier gain 33 dB (3 dB)

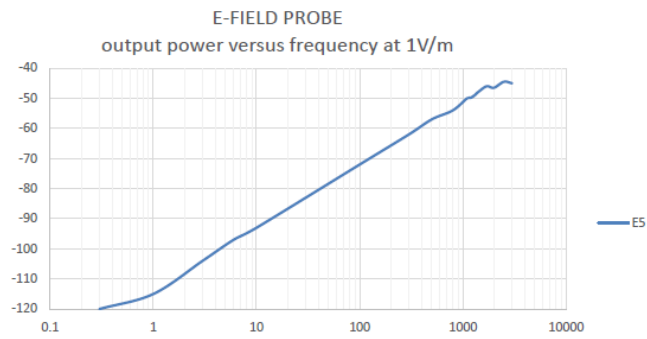
**Dimensions**

Probe	Length	Loop	Tip
H20 H-Field (magnetic)	170 mm	20 mm	N.A.
H10 H-Field (magnetic)	170 mm	10 mm	N.A.
H5 E-Field (electric)	170 mm	5 mm	N.A.
E5 E-Field (electric)	170 mm	N.A.	5 mm

**Frequency response (magnetic field probes)**



**Frequency response (electric field probes)**



## Ordering information

### EMI-NF-PROBE and related accessories

Item	Description
EMI-NF-PROBE	EMC probe set consisting of H20, H10, H5, E5, 75 cm SMB to SMA cable, measurement plots
EMI-NF-AMP	40 dB wideband amplifier with cable

### Service

All service provided by TEKBOX Digital Solutions. Contact <https://www.tekbox.net/> for product information and service.

### DS\_CertificationsContainer

CE Marking Not Applicable.



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.



Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.



Product Area Assessed: The planning, design/development and manufacture of electronic Test and Measurement instruments.

**ASEAN / Australasia** (65) 6356 3900  
**Belgium** 00800 2255 4835\*  
**Central East Europe and the Baltics** +41 52 675 3777  
**Finland** +41 52 675 3777  
**Hong Kong** 400 820 5835  
**Japan** 81 (3) 6714 3086  
**Middle East, Asia, and North Africa** +41 52 675 3777  
**People's Republic of China** 400 820 5835  
**Republic of Korea** +822 6917 5084, 822 6917 5080  
**Spain** 00800 2255 4835\*  
**Taiwan** 886 (2) 2656 6688

**Austria** 00800 2255 4835\*  
**Brazil** +55 (11) 3759 7627  
**Central Europe & Greece** +41 52 675 3777  
**France** 00800 2255 4835\*  
**India** 000 800 650 1835  
**Luxembourg** +41 52 675 3777  
**The Netherlands** 00800 2255 4835\*  
**Poland** +41 52 675 3777  
**Russia & CIS** +7 (495) 6647564  
**Sweden** 00800 2255 4835\*  
**United Kingdom & Ireland** 00800 2255 4835\*

**Balkans, Israel, South Africa and other ISE Countries** +41 52 675 3777  
**Canada** 1 800 833 9200  
**Denmark** +45 80 88 1401  
**Germany** 00800 2255 4835\*  
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**Mexico, Central/South America & Caribbean** 52 (55) 56 04 50 90  
**Norway** 800 16098  
**Portugal** 80 08 12370  
**South Africa** +41 52 675 3777  
**Switzerland** 00800 2255 4835\*  
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\* European toll-free number. If not accessible, call: +41 52 675 3777

**For Further Information.** Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit [www.tek.com](http://www.tek.com).

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