Tel/tronix[®]



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,

Specifications

Near field probes

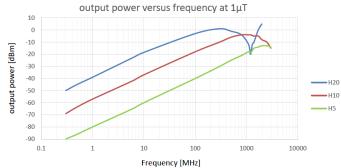
Frequency range

1 MHz –1 GHz

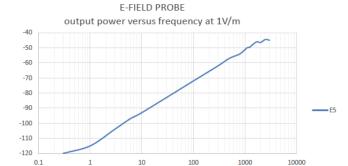
Dimensions

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) H-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	20 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

Datasheet

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*
Italy 00800 2255 4835*
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*

USA 1 800 833 9200

* 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.

Copyright © Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks, or registered trademarks of their respective companies.

03 Apr 2018 37W-61343-1

www.tek.com

