

20 dB near field amp for Tektronix EMC pre-compliance

EMI-NF-AMP (TEKBOX TBWA2 offered by Tektronix)



The EMI-NF-AMP is the TEKBOX TBWA2. This 20 dB wideband amplifier is for radiated emissions EMC pre-compliance measurements. This amplifier can be used with the EMI-NF-PROBE probes to increase the dynamic range of the measurements.

Key features

- Wideband amplifier with 20 dB gain
- Works with EMI-NF-PROBE (TEKBOX TBPS01) magnetic field and electric field probes

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 amplifier

Input	50 Ω, SMA
Output	50 Ω, SMA
Nominal supply voltage	4.5 – 5 V, typical. 110 mA, Mini-USB-B connector
Maximum supply voltage	5.5 V
Maximum input power	+ 10 dBm
1 dB output compression point at 2 GHz	+20 dBm
3rd order output intercept point at 2 GHz	Pin = 0 dBm/tone, Δf = 10 MHz: +35 dBm
Reverse isolation S12, 0.1... 6 GHz	23 dB
Noise figure at 2 GHz	4.5 . . . 5 dB

Gain	1 MHz	10 MHz	100 MHz	500 MHz	1 GHz	2 GHz	3 GHz	4.5 GHz	6 GHz
	14.8 dB	20.2 dB	20.2 dB	20 dB	19.8 dB	19 dB	17.6 dB	17.4 dB	15.4 dB

Ordering information

EMI-NF-AMP and related accessories

Item	Description
EMI-NF-AMP	20 dB wideband amplifier with cable
EMI-NF-PROBE	EMC probe set consisting of H20, H10, H5, E5, 75 cm SMB to SMA cable, measurement plots

Service

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

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