
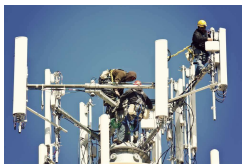


03E PROBE

Electric Field Probe: E Field, 100 kHz ÷ 18 GHz

Key Features:

- Frequency range: 100 kHz ÷ 18 GHz
- Dynamic Range: > 52 dB
- Directivity: Isotropic

Compatibility:

- NHT310 and NHT3D meters

Typical Application:

- Industrial ovens, welding systems, RF heating, tempering and drying systems
- Diathermy equipment and medical devices RF generators, NMR machines
- Power plants and related maintenance and control systems
- Sensitive site (hospital)
- Measurement systems for railway and round transport
- Wireless telecommunication systems such as
- mobile phone base stations, satellite communication equipment, Broadcasting equipment, Wi-Fi, Wi-Max and LTE

Information subject to change without prior notice

MICRORAD

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03E PROBE

Electric Field Probe: E Field, 100 kHz ÷ 18 GHz

Description:

The 03E probe is based on a set of three mutually orthogonal diode dipoles. The signal from the three dipoles is used by the NHT310 or NHT3D instruments to calculate the isotropic value of the field.

The 03E probe is able to detect both CW (Continuous Wave) and modulated signals in the frequency ranges from 100kHz to 18GHz, allowing operators to cover applications in the industrial, scientific, medical, telecommunications and power plants sectors.

The high sensitivity of this probe makes it ideal for protectionist measurement of human exposure to electric fields in both public and professional environments.

The introduction of the signal envelope sampling technique, carried out with the NHT3D meter, allows not only a reliable reading of the field value, but also, for the first time, the graphical representation in the time domain of the form factor of the analyzed signal. This innovative technique opens up new analytical perspectives, allowing to distinguish and evaluate intermittent or pulse signals with important crest factors such as those typical of mobile telephones or radar.

TECHNICAL SPECIFICATIONS	
Frequency range	100 kHz ÷ 18 GHz
Type of frequency response	Flat
Measurement range	0.8 ÷ 340 V/m (cw)
Dynamic range	52 dB
Sensor type	Diode dipoles
Directivity	Isotropic
Frequency response (typical)	± 1.5 dB (1 MHz ÷ 3 GHz)
	± 3 dB (3 GHz ÷ 18 GHz)
Linearity	± 0.5 dB (2 ÷ 200 V/m)
Isotropic response	± 0.5 dB (@100 MHz)

GENERAL CHARACTERISTICS	
Recommended calibration interval	24 months
Operating temperature	0°C ÷ 50°C
Size	327 x 60 Ø(mm)
Weight	120 g
Country of origin	Italy

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