

02E PROBE

Electric Field Probe: E Field, 400 kHz ÷ 40 MHz

Key Features:

- Frequency range: 400 kHz ÷ 40 MHz
- Dynamic Range: > 50 dB
- Directivity: Isotropic



Compatibility:

- NHT310F and NHT3DL meters

Typical Applications:

- Industrial ovens
- Welding systems
- Short waves transmitting systems

Information subject to change without prior notice

MICRORAD

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Electric Field Probe: E Field, 400 kHz ÷ 40 MHz

Description:

The 02E probe is based on a set of three mutually orthogonal diode dipoles. The signal from the three dipoles is used by Microrad instruments to calculate the isotropic value of the field.

The 02E probe is able to detect both CW (Continuous Wave) and modulated signals in the frequency ranges from 400kHz to 40MHz, allowing operators to cover applications in the industrial, scientific and medical 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 NHT3DL and NHT310F 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 SPECIFICATION	
Frequency range	400 kHz ÷ 40 MHz
Type of frequency response	Flat
Measurement range	2 ÷ 800 V/m (cw)
Sensor type	Diode dipoles
Directivity	Isotropic
Frequency response	± 1dB (500 kHz ÷ 40 MHz)
Linearity	± 0.5 dB (2-800 V/m)
Isotropic response	± 0.5 dB (@100 MHz)

GENERAL CHARACTERISTICS	
Recommended calibration interval	24 months
Operating temperature	-10°C ÷ 50°C
Size	327 x 60 Ø (mm)
Weight	120g
Country of origin	Italy

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