

# RF-E 05

E-Field Probe 30 MHz up to 3 GHz



## Short description

The electrode at the underside of the probe head of the RF-E 05 has a width of approx. 0.5 mm. The E-fields of clocked lines, IC pins, and smaller components are precisely located. The RF-E 05 probe was developed for Langer scanner.

The RF-E 05 is a near-field probe. It has the same structure as the RF-E 02 and RF-E 10 probes, but detects E-fields from very small ranges. The RF-E 05 is designed to detect the specific cause of an electrical interference field. For measurements the E-field probe is positioned directly onto or held above the components or surfaces of printed circuit boards. The near-field probe is small and handy. It has a current attenuating sheath and, therefore, is electrically shielded. It can be connected to a spectrum analyzer or an oscilloscope with a 50 Ω input. The H-field probe does not have an internal terminating resistance of 50 Ω.

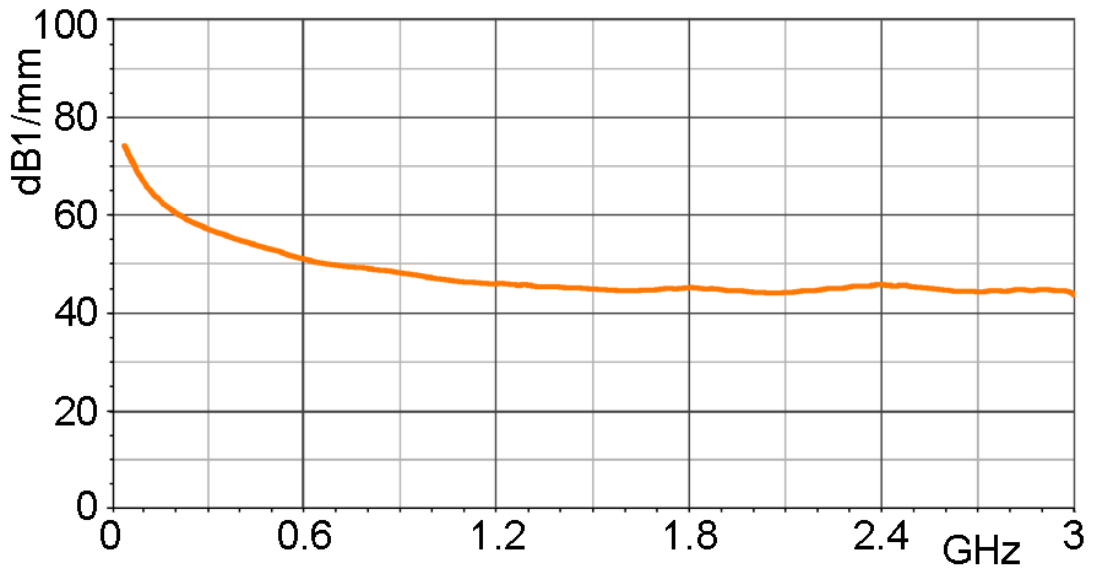
## Technical parameters

|                       |                  |
|-----------------------|------------------|
| Frequency range       | 30 MHz ... 3 GHz |
| Resolution            | ≈ 0.6 mm         |
| Probe head dimensions | ≈ (1 x 8) mm     |
| Connector - output    | SMB, male, jack  |

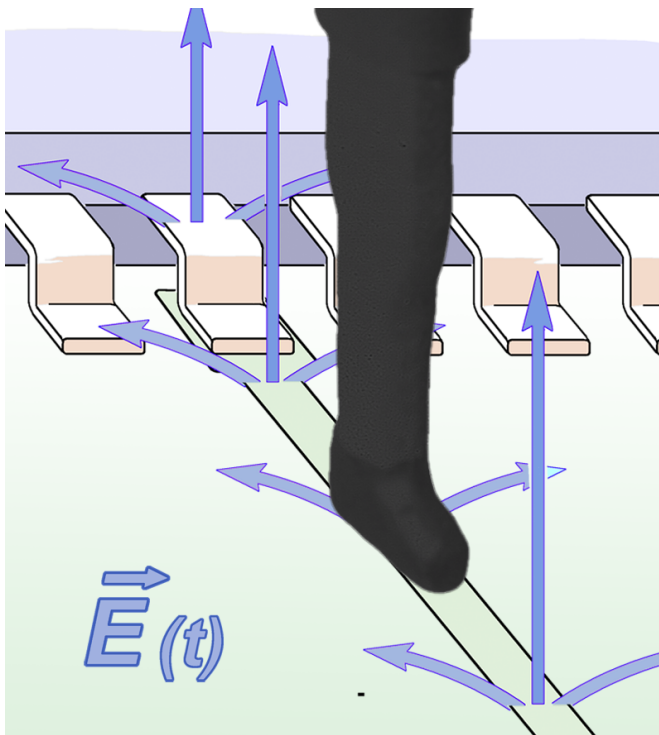
Frequency response [dBμV] / [dBμV/mm]



E- field correction curve [dB $\mu$ V/mm] / [dB $\mu$ V]



Measuring principles



# RF-E 05

E-Field Probe 30 MHz up to 3 GHz

Probe head

