

Isotropic Electric Field Probe PI-09:

3 MHz- 90 GHz, 4 V/m -1000 V/m

Ultrabroadband isotropic electric field probe **PI-09** extends the requirements of most EMC and RF safety standards for industrial, military, and communication applications. It covers all RF and microwave frequency bands up to the middle of M band, thus providing a versatile measuring tool for all microwave test applications.

Main Parameters *

- Diode-based: **3-Axial isotropic sensor.**
- Frequency range: **3 MHz-90 GHz.**
- Field strength range: **4 V/m-1000 V/m.
4 μ W/cm² – 270 mW/cm²**
- Linearity: **+/- 1.5 dB.**
- Linear power RMS response **up to 150V/m (6 mW/cm²)**
- Frequency resp. (no corr. factors): **3 MHz-1 GHz (+/-2 dB)
1-26 GHz (+6/-0 dB)
26-60 GHz (+/- 6 dB)
60-90 GHz (+0/-10 dB)**
- Frequency resp, (with corr. factors): **+/- 3.0 dB.**
- Measurement uncertainty, including the calibration and rotational deviation **+/- 4.5 dB.**
- Rotational isotropicity: **+/-3 dB**
- Temperature: **5-40 °C,**
- Humidity (non-condensing): **RH 10-90%.**
- Temperature error: **0.05 dB/°C.**
- **UK NPL traceable** calibration.
- UKAS certified up to **75 GHz as of 1.15.2025.**
- Probe size (LxD): **12.0"x2.25" (310x58 mm).**
- Weight (probe and power unit): **0.17 lb (76 g).**
- Operates with **RFP-05M/RFP-05** meters
- Designed and made in the **USA.**

** Specification may be changed to reflect the design progress.*

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Probe PI-09



Meter RFP-05M