



SHE100K6z5G

- Electric E-Field Sensor Head
- Isotropic
- 100kHz–6.5GHz
- 65dB dynamic range
- Sensitivity 0.2 V/m

Features

The SHE100K6z5G E-field sensor head is based on a set of three mutually orthogonal diode dipoles. The three relative voltages which correspond to the spatial components are individually available at the sensor head output. An SM-series meter (required for use of this sensor head) calculates the resulting isotropic field strength.



This sensor head detects electric fields from 100 kHz to 6.5 GHz covering those fields which occur in broadcasting, telecoms, ISM and industry. The high sensitivity of this sensor head makes it ideal for the measurement of human exposure to electric fields in both public and professional environments.

The sensor head is supplied with factory calibration. This model is

also available in an M1-version which includes an accredited 17025-compliant calibration.

Typical Applications

- Industrial ovens, welding systems, RF heating, tempering and drying equipment.
- Diathermy equipment and medical devices RF generating, NMR machines.
- Power plants and related systems maintenance.
- Sensitive sites (hospitals).
- Measurements for railways and ground transport systems.
- Wireless telecommunication systems such as mobile phone base stations, satellite communication equipment, Broadcasting equipment, Wi-Fi, Wi-Max and LTE systems.

Specifications

Frequency Range: 100 kHz–6.5 GHz

Type of Frequency Response: Flat

Measurement Range: 0.2–350 V/m CW

Dynamic Range: 65 dB

Sensor Type: Diode Dipoles

Directivity: Isotropic

Accuracy:

Flatness Frequency Response:

±1.5 dB (1 MHz–3 GHz)

±2.5 dB (3 GHz–6.5 GHz)

Linearity: ±0.5 dB (2–200 V/m)

Isotropic Response (@ 100MHz): ±0.5 dB

Calibration Frequencies: 0.1-0.5-1-5-10-27.12-50-100-200-300-400-500-600-700-800-900-1000-2000-2500-3500-4000-4500-5000-5500-6000-6500 (MHz)

Operation Temperature: 0°C–50°C

Size: 327 x 60 mm, 12.88 x 2.4 in

Weight: 120 g, 4.25 oz

Export Classification: EAR99

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