Isotropic Pulsed Electric Field Probe
PI-03P: 100 MHz-18 GHz, 70-1400 V/m

Broadband isotropic electric field probe PI-03P measures the pulsed RF field produced by the microwave radars. It has fast sampling capability measuring the field strength of RF bursts (pulses) as short as 1 us (one microsecond). It operates in the frequency range 100 MHz - 18 GHz, covering the test requirements of MIL STD-461 and automotive EMC GM and Ford specifications.

Main Parameters *

- Diode based 3-Axial isotropic sensor.
- Field strength range: 70-1400 V/m.
- Pulse duty: 0.01% to 100%.
- Pulse repetition period: 0.1-10 msec.
- Frequency of pulse repetition: 100-10000 Hz.
- Shortest pulse width: 1 us.
- Longest pulse repetition period: 10 ms.
- Pulse amplitude measurement variation for fields >200 V/m over the range of pulse width (from 1 uS to 100% duty) and period (0.1-10 msec.): <1 dB.
- Pulse amplitude measurement variation for fields >70 V/m over the range of pulse width (from 4 uS to 100% duty) and period (0.1-10 msec.): <1 dB.
- Linearity: +/- 0.5 dB.
- Frequency response (no corr. factors): 100 MHz-6 GHz (+/- 3 dB), 6-18 GHz (+/- 4 dB).
- Frequency response (with corr. factors): +/- 1.5 dB.
- Rotational isotropiety: <1 dB.
- Rechargeable battery operating time: >60 hrs.
- Temperature: 5-40 °C,
- Humidity (non-condensing): RH 10-90%.
- Temperature error: 0.05 dB/°C.
- UK NPL or NIST traceable calibration.
- Probe size (LxD): 12.0"x2.25" (310x58 mm).
- Power Unit: (LxWxD): 4x2.3x1.3 (100x58x33 mm).
- Weight (probe and power unit): 0.5 lb, 230 g.
- Operates with RFP-05 meter
- Designed and made in the USA.

* Specification may be changed to reflect the design progress.

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