

KEYSIGHT TECHNOLOGIES (AGILENT HP)

11940A

The Keysight (Agilent HP) 11940A is a passive, close-field magnetic (H-field) probe designed for EMI/EMC troubleshooting and diagnostic measurements over the frequency range of 30 MHz to 1 GHz. Featuring a unique dual-loop design, it provides exceptional rejection of electric (E-field) fields, ensuring highly localized and accurate magnetic field measurements. Each probe is individually calibrated, with its unique antenna factor calibration curve printed directly on the probe body for convenient and precise measurement conversion.

SPECIFICATIONS

Physical

Power Supply	Passive (none required)
Operating Temperature	0 °C to 55 °C °C
Dimensions (W×H×D)	46 mm × 140 mm × 19 mm mm
Weight	0.11 kg kg

Electrical Performance

Frequency Range	30 MHz to 1 GHz
Probe Type	H-Field (Magnetic Field)
Sensor Design	Dual-loop (for common-mode E-field rejection)
Nominal Impedance	50 ohms
Maximum Continuous Input RF Power	0.5 W (+27 dBm)
Output Connector Type	SMA female

Calibration & Traceability

Calibration Type	Individually calibrated; antenna factors plotted on probe handle
Calibration Accuracy	±2 dB (typical)

System Compatibility & Accessories

Compatible Equipment	Spectrum Analyzers, EMI Receivers, Oscilloscopes
Related Probe Set	HP 11945A Close-Field Probe Set

Environmental

Storage Temperature	-40 °C to +75 °C
Operating Humidity	95% RH @ 40 °C

Electrical

Maximum Safe DC Current	0.5 A
Maximum Safe Electric Field	1000 V/m

TECHNOLOGY

Passive Near-Field Probing

APPLICATIONS

EMI/EMC Diagnostic and Pre-compliance Testing

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