

Magnetic Field Probes

HP 11940A and 11941A Close Field Probes

These hand-held probes are specially designed to measure magnetic field radiation from surface currents, slots, cables, and ICs for EMC diagnostic and troubleshooting measurements. Their unique design results in a high level of electric field rejection. This significantly reduces errors allowing calibrated and repeatable measurements. Each probe is calibrated and comes with a two-meter, RG-223 coaxial cable, an SMA(f) to Type-N(m) adapter, and an SMA(f) to BNC(m) adapter.



Frequency Range	11940A: 30 MHz - 1 GHz 11941A: 9 kHz - 30 MHz
Maximum Input Power	0.5 W
Temperature Range	Variation over 0 °C to + 40 °C
Dielectric Breakdown	± 1 dB, typical
Connector	SMA, replaceable barrel
VSWR	< 3 : 1, typical for 11940A only
Antenna Factor Accuracy	Individually calibrated to within ± 2 dB in a 377 Ω field impedance

HP 11945A Close Field Probe Set

The HP 11945A close field probe set includes both the 11940A and 11941A probes to provide full coverage from 9 kHz to 1 GHz. This set provides a powerful measurement tool for electrical and mechanical designers who want to search for and eliminate sources of interference from their products early in the design process. Option E51 adds the HP 8447F Option H64 dual preamplifier, a 36 inch (914 mm) Type-N cable and a carrying bag to store and protect the entire set of probes, preamplifier, and cables.

