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Data Sheet

August 13, 2026

AGILENT

Agilent 11940A / 11941A Close-Field probe 30MHz-1GHz

Agilent 11940A / 11941A Close-Field probe 30MHz-1GHz,"Near-field probes optimized for detecting and analyzing low-level electromagnetic emissions in circuit boards and components. Operate between 30 MHz and 1 GHz with high spatial resolution. Useful for pre-compliance EMC testing, pinpointing noise sources, and verifying shielding effectiveness in product development environments."



MODEL

**Agilent
11940A/11941A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

11940A/11941A

LISTING

<https://aumictechlabs.com/products/11940a-11941a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent 11940A and 11941A Close-Field Probes are magnetic field detection instruments designed for EMC diagnostic and troubleshooting of electronic components, circuit boards, slots, and cables. These probes deliver high spatial resolution with exceptional electric field rejection, identify interference sources early in product development and obtain calibrated, repeatable measurements across their respective frequency bands. Technical Specifications Agilent 11940A Frequency Range: 30 MHz – 1 GHz Maximum Input Power: 0.5 W Dielectric Breakdown: ± 1 kV (typical) Connector Type: SMA, replaceable barrel VSWR: $< 3:1$ (typical) Antenna Factor Accuracy: ± 2 dB (377 Ω field impedance) Operating Temperature: 0 °C to +40 °C Agilent 11941A Frequency

Range: 9 kHz – 30 MHz Maximum Input Power: 0.5 W Dielectric Breakdown: ± 1 kV (typical)
Connector Type: SMA, replaceable barrel Antenna Factor Accuracy: ± 2 dB (377 Ω field impedance) Operating Temperature: 0 °C to +40 °C Key Features Individual factory calibration ensures measurement accuracy and repeatability High electric field rejection minimizes unwanted coupling during close-field measurements Replaceable SMA barrel connectors support field maintenance Low VSWR performance maintains signal integrity across operating frequencies Typical Applications Magnetic field radiation measurement from surface currents, slots, cables, and integrated circuits EMC pre-compliance and diagnostic troubleshooting Interference source identification during design validation Near-field analysis in product development cycles Compatibility & Integration Each probe ships with 2 meters of RG-223 coaxial cable, SMA(f) to Type-N(m) adapter, and SMA(f) to BNC(m) adapter. The Agilent 11945A Close Field Probe Set combines both models, providing continuous frequency coverage from 9 kHz to 1 GHz for comprehensive near-field characterization.

11940A/11941A Characteristics / Specifications

PARAMETER	VALUE
Model	11940A / 11941A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Close-field magnetic (H-field) probe
Alias	HP 11940A; Agilent 11940A; HP 11941A; Agilent 11941A; 11945A set
Frequency Range 11940A	30 MHz to 1 GHz
Frequency Range 11941A	9 kHz to 30 MHz
Combined Set Coverage 11945A	9 kHz to 1 GHz
Maximum Input Power	0.5 W
Temperature Range	variation specified over 0 C to +40 C
Dielectric Breakdown	plus/minus 1 kV typical
Connector Type	SMA, replaceable barrel
VSWR 11940A	less than 3:1 typical
VSWR 11941A	less than 3:1
Antenna Factor Accuracy	individually calibrated to within plus/minus 2 dB in a 377 ohm field impedance
Field Impedance For Calibration	377 ohm
Supplied Cable	2 m RG-223 coaxial
Supplied Adapter N	SMA(f) to Type-N(m)
Supplied Adapter BNC	SMA(f) to BNC(m)
Probe Set Model	11945A (11940A plus 11941A)
Preamplifier Band 1 Frequency	9 kHz to 50 MHz (8447F Option H64)
Preamplifier Band 1 Noise Figure	less than 7.0 dB
Preamplifier Band 1 Gain	28 dB
Preamplifier Band 1 Gain Flatness	plus/minus 2.0 dB
Preamplifier Band 2 Frequency	100 kHz to 1.3 GHz (8447F Option H64)
Preamplifier Band 2 Noise Figure	8.5 dB

PARAMETER	VALUE
Preamplifier Band 2 Gain	26 dB
Preamplifier Band 2 Gain Flatness	plus/minus 1.5 dB
Preamplifier Connector	Type-N (f) both bands
Listing Shipping Weight 11940A	about 4 lb class
Loop Design Constraint	maximum loop dimension less than one-tenth wavelength at 1 GHz Notes Specs from Agilent/HP 11940A, 11941A, and 11945A EMC accessory catalog pages and the 8447F Option H64 table published with the probe set. Confirm which probe (11940A vs 11941A) and whether Option E51 / 8447F H64 is included on the listing.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	11940A / 11941A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Close-field magnetic (H-field) probe
Alias	HP 11940A; Agilent 11940A; HP 11941A; Agilent 11941A; 11945A set
Frequency Range 11940A	30 MHz to 1 GHz
Frequency Range 11941A	9 kHz to 30 MHz
Combined Set Coverage 11945A	9 kHz to 1 GHz
Maximum Input Power	0.5 W
Temperature Range	variation specified over 0 C to +40 C
Dielectric Breakdown	plus/minus 1 kV typical
Connector Type	SMA, replaceable barrel
VSWR 11940A	less than 3:1 typical
VSWR 11941A	less than 3:1
Antenna Factor Accuracy	individually calibrated to within plus/minus 2 dB in a 377 ohm field impedance
Field Impedance For Calibration	377 ohm
Supplied Cable	2 m RG-223 coaxial
Supplied Adapter N	SMA(f) to Type-N(m)
Supplied Adapter BNC	SMA(f) to BNC(m)
Probe Set Model	11945A (11940A plus 11941A)
Option E51 Contents: 8447F Option H64 dual preamplifier, 36 inch (914 mm) Type-N cable, carrying bag	
Specifications	
PARAMETER	VALUE
Preamplifier Band 1 Frequency	9 kHz to 50 MHz (8447F Option H64)
Preamplifier Band 1 Noise Figure	less than 7.0 dB
Preamplifier Band 1 Gain	28 dB

PARAMETER	VALUE
Preamplifier Band 1 Gain Flatness	plus/minus 2.0 dB
Preamplifier Band 2 Frequency	100 kHz to 1.3 GHz (8447F Option H64)
Preamplifier Band 2 Noise Figure	8.5 dB
Preamplifier Band 2 Gain	26 dB
Preamplifier Band 2 Gain Flatness	plus/minus 1.5 dB
Preamplifier Connector	Type-N (f) both bands
Listing Shipping Weight 11940A	about 4 lb class
Loop Design Constraint	maximum loop dimension less than one-tenth wavelength at 1 GHz

Notes

Specs from Agilent/HP 11940A, 11941A, and 11945A EMC accessory catalog pages and the 8447F Option H64 table published with the probe set. Confirm which probe (11940A vs 11941A) and whether Option E51 / 8447F H64 is included on the listing.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.