

KEYSIGHT TECHNOLOGIES (AGILENT HP)

11909A

The Keysight (Agilent HP) 11909A is a low noise amplifier operating from 9 kHz to 1 GHz. Providing a typical gain of 32 dB and an exceptionally low noise figure, it is designed to significantly improve the sensitivity of test systems, spectrum analyzers, and receivers. It is particularly well-suited for EMI troubleshooting when paired with the Agilent 11940A and 11941A close-field probes.

SPECIFICATIONS

Physical

Power Supply	100 / 120 / 220 / 240 V AC (+10%, -15%), 47 to 66 Hz
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	110 mm × 117 mm × 216 mm mm

Frequency and Bandwidth Characteristics

Lower Frequency Limit	9 kHz
Upper Frequency Limit	1 GHz

Gain and Amplitude Performance

Nominal Gain	32 dB ± 1.5 dB @ 100 MHz
Gain Flatness	±0.5 dB (25 kHz to 800 MHz)
Output 1 dB Compression Point (P1dB)	+10 dBm
Maximum Safe Input Voltage (DC)	±2 V DC
Maximum Input for Linear Operation	±24 mV (approximate)

Impedance and Port Characteristics

Input Impedance	50 ohms
Output Impedance	50 ohms
Input Return Loss	8 dB
Output Return Loss	10 dB
RF Input Connector Type	Type-N female
RF Output Connector Type	Type-N female

Compliance, Standards and Calibration

Recommended Accessories	Agilent 11940A & 11941A close-field probes
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Performance

Output Third-Order Intercept Point (OIP3)	+22 dBm (typical)
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Environmental

Storage Temperature Range	-40 °C to +75 °C
Operating Humidity	95% RH at 40 °C (non-condensing)

Electrical Specifications

Maximum Safe AC Input Level	+13 dBm (1.0 V rms)
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TECHNOLOGY

Solid State LNA

APPLICATIONS

Receiver sensitivity improvement, radiated emissions testing, and close-field EMI probing

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