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Data Sheet

August 1, 2026

HP

HP 3048A Phase Noise Measurement System w 11848A

HP 3048A Phase Noise Measurement System with 11848A Phase Noise Interface The HP 3048A is a computer-controlled phase noise measurement system. The basic hardware includes the HP 11848A Phase Noise Interface and an HP 3561A dynamic signal analyzer (FFT), under control of an HP 9000/300 or HP Vectra PC running dedicated phase noise software. The 11848A houses the phase detectors, amplifiers, filters, and switches needed to measure phase noise (and AM noise) from 5 MHz to 1.6 GHz standard, extendable to 18 GHz with Option 201 (microwave phase detector). The 3561A quantifies demodulated noise out to 100 kHz offset and is used for calibration and real-time monitoring. This listing emphasizes the 3048A system with the 11848A interface included. The HP 3048A is a computer-controlled phase noise measurement system. The basic hardware includes the HP 11848A Phase Noise Interface and an HP 3561A dynamic signal analyzer (FFT), under control of an HP 9000/300 or HP Vectra PC running dedicated phase noise software. The 11848A houses the phase detectors, amplifiers, filters, and switches needed to measure phase noise (and AM noise) from 5 MHz to 1.6 GHz standard, extendable to 18 GHz with Option 201 (microwave phase detector). The 3561A quantifies demodulated noise out to 100 kHz offset and is used for calibration and real-time monitoring. This listing emphasizes the 3048A system with the 1184

No photo

MODEL

HP 3048A

CALIBRATION

N/A — off-catalog
OEM datasheet

CONDITION

See OEM
documentation

STATUS

Not listed on
Aumictech
inventory

RFQ / SKU

3048A

LISTING

Off-catalog — OEM dat
asheet only

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- System (3048A) • Automated phase noise measurement under computer control • PLL / phase-detector based measurement techniques via the 11848A • Offset coverage from near carrier (as low as about 0.1 Hz class display) to 100 kHz with the 3561A; wider offsets with optional RF spectrum analyzer configurations • Carrier frequency range set by reference source and phase detector: 5 MHz to 1.6 GHz standard; to 18 GHz with Option 201 • Software for HP 9000 Series 300 or DOS Vectra PC platforms (vintage)

Built-in 11848A Sources (functional / reference)

10 MHz and 400 MHz low-noise sources VCO capability approximately 350-500 MHz Standard Operating Conditions System calibration procedures (performance tests, noise floor, functional path checks, DAC tests, Option 1/2 path characterization) are documented in the HP 3048A Calibration Manual. Warm-up and reference-source quality dominate measured floor. Operational Notes The 11848A is not a standalone noise figure meter; it requires the 3048A software environment and typically the 3561A. Measurement floor depends on reference source phase noise and R-port signal level. Confirm Option 201 if microwave coverage above 1.6 GHz is required. Companion documentation includes Operating Manual and Reference Manual (for example 03048-90002 class).

3048A Characteristics / Specifications

PARAMETER	VALUE
System Model	3048A
Interface Model	11848A
Manufacturer	Hewlett-Packard
Instrument Type	Phase noise measurement system with phase noise interface Frequency Coverage
Standard phase detector	5 MHz to 1.6 GHz (1600 MHz)
FFT analyzer offset (3561A)	to 100 kHz maximum in the basic configuration
Minimum displayed offset	approximately 0.1 Hz class near carrier (system dependent) Basic System Elements HP 11848A Phase Noise Interface HP 3561A Dynamic Signal Analyzer Controller computer with 3048A phase noise software External reference / LO source (user-supplied synthesizer or oscillator with FM/tuning input for PLL measurements)
Carrier frequency range set by reference source and phase detector	5 MHz to 1.6 GHz standard; to 18 GHz with Option 201

3048A Specifications

PARAMETER	VALUE
Technical Specifications	System Model: 3048A
Frequency Coverage	Standard phase detector: 5 MHz to 1.6 GHz (1600 MHz)
Basic System Elements	HP 11848A Phase Noise Interface
HP 3561A Dynamic Signal Analyzer	Controller computer with 3048A phase noise software

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

Specifications

PARAMETER	VALUE
System Model	3048A
Interface Model	11848A
Manufacturer	Hewlett-Packard
Instrument Type	Phase noise measurement system with phase noise interface

Frequency Coverage

Standard phase detector: 5 MHz to 1.6 GHz (1600 MHz)
Option 201 microwave phase detector: approximately 1.2 GHz to 18 GHz
FFT analyzer offset (3561A): to 100 kHz maximum in the basic configuration
Minimum displayed offset: approximately 0.1 Hz class near carrier (system dependent)

Basic System Elements

HP 11848A Phase Noise Interface
HP 3561A Dynamic Signal Analyzer
Controller computer with 3048A phase noise software
External reference / LO source (user-supplied synthesizer or oscillator with FM/tuning input for PLL measurements)

Built-in 11848A Sources (functional / reference)

10 MHz and 400 MHz low-noise sources
VCO capability approximately 350-500 MHz

Standard Operating Conditions

System calibration procedures (performance tests, noise floor, functional path checks, DAC tests, Option 1/2 path characterization) are documented in the HP 3048A Calibration Manual. Warm-up and reference-source quality dominate measured floor.

Operational Notes

The 11848A is not a standalone noise figure meter; it requires the 3048A software environment and typically the 3561A. Measurement floor depends on reference source phase noise and R-port signal level. Confirm Option 201 if microwave coverage above 1.6 GHz is required. Companion documentation includes Operating Manual and Reference Manual (for example 03048-90002 class).

Ordering Information

OPTION	DESCRIPTION
Option 201	(microwave phase detector). The 3561A quantifies demodulated noise out to 100 kHz offset and is used for calibration and real-time monitoring. This listing emph

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

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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.