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Data Sheet

August 6, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 3326A 0Hz – 13MHz, Two-Channel Synthesizer

Keysight (Agilent) 3326A 0Hz – 13MHz, Two-Channel Synthesizer The HP/Agilent/Keysight 3326A combines two DC-to-13 MHz synthesizers in one instrument for precise two-tone, two-phase, sweep, and pulse applications. Frequency resolution 1 μ Hz below 100 kHz and 1 mHz from 100 kHz to 13 MHz. Output levels programmable from about 1 mVpp to 10 Vpp into 50 Ω ($\approx$ -56 to +24 dBm) with 0.01 dB amplitude resolution. Internal AM/PM; channel-to-channel modulation; HP-IB. Two-tone stimulus; calibrated phase-offset signals; broadband two-tone sweep; pulse and modulation source for bench/systems. The HP/Agilent/Keysight 3326A combines two DC-to-13 MHz synthesizers in one instrument for precise two-tone, two-phase, sweep, and pulse applications. Frequency resolution 1 μ Hz below 100 kHz and 1 mHz from 100 kHz to 13 MHz. Output levels programmable from about 1 mVpp to 10 Vpp into 50 Ω ($\approx$ -56 to +24 dBm) with 0.01 dB amplitude resolution. Internal AM/PM; channel-to-channel modulation; HP-IB. Two-tone stimulus; calibrated phase-offset signals; broadband two-tone sweep; pulse and modulation source for bench/systems.



MODEL

**Keysight / Agilent
3326A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3326A

LISTING

<https://aumictechlabs.com/products/3326a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) 3326A is a dual-channel synthesizer generating precise signals from DC to 13 MHz with independent control of frequency, amplitude, and modulation on each output. Microprocessor control enables coordinated sweeping, phase-continuous frequency changes with 11-digit resolution, and HP-IB programmability. The instrument delivers sine and square waveforms with 0.01 dB amplitude resolution across eight selectable ranges (1 mV p-p to 10 V p-p), supporting AM, PM, frequency sweeping, two-tone generation, and pulse mode with variable symmetry. All outputs are floating with an internal signal combiner and adjustable DC offset.

Technical Specifications

Frequency Range: DC to 13 MHz

Frequency Resolution: 1 μ Hz below 100 kHz 1 mHz from 100 kHz to 13 MHz 11 digits for phase-continuous sweeps and frequency changes

Frequency Stability: ± 0.2 degrees below 100 kHz with internal calibration; external calibration and Option 001 (High Stability Frequency Reference) available for extended accuracy requirements.

Output Amplitude: 1 mV p-p to 10 V p-p in eight ranges with 0.01 dB resolution. Floating outputs on both channels; rear panel output option available (Option 003).

Waveforms: Sine and square, independently selectable per channel. Sinewave distortion: harmonics ≤ -70 dBc below 100 kHz.

Modulation: AM: DC to 100 kHz, envelope distortion better than -46 dB PM: 0.01-degree phase resolution across entire 13 MHz range

Two-tone: ± 100 kHz channel offset in CW or sweep modes

Pulse mode: 1% to 99% symmetry in 0.1% increments

Sweep Modes: Coordinated dual-channel sweeping. Discrete mode supports 2 to 63 frequency pairs with individual dwell times per frequency and channel. Sweep time range: 5 ms to 1000 s.

Key Features

- Two independent synthesizer channels in one unit
- Built-in signal combiner for merged outputs
- DC offset capability in all modes
- HP-IB programming support
- Phase-continuous frequency tuning

Typical Applications

- Multi-channel signal generation for component and subsystem testing
- Two-tone testing for broadband device characterization
- Precision frequency and phase control in production and laboratory environments

Compatibility & Integration

HP-IB (GPIB) programmable. Rear panel output configuration available via Option 003.

Features & description

From manufacturer datasheet

Features

- Two independent DC–13 MHz synthesizer channels
- Resolution: 1 μ Hz (<100 kHz); 1 mHz (100 kHz–13 MHz)
- Amplitude: ~1 mVpp to 10 Vpp into 50 Ω ; 0.01 dB resolution
- Calibrated phase offset across full frequency range
- Two-tone offset up to ± 100 kHz (CW or swept)
- Internal AM (dc–100 kHz) and PM; simultaneous AM+PM
- Discrete sweep: 2–63 frequency pairs with per-point dwell
- Nine nonvolatile instrument states
- HP-IB / GPIB control

3326A Characteristics / Specifications

PARAMETER	VALUE
Keysight (Agilent) 3326A 0Hz	13MHz, Two-Channel Synthesizer Overview The HP/Agilent/Keysight 3326A combines two DC-to-13 MHz synthesizers in one instrument for precise two-tone, two-phase, sweep, and pulse applications. Frequency resolution 1 μ Hz below 100 kHz and 1 mHz from 100 kHz to 13 MHz. Output levels programmable from about 1 mVpp to 10 Vpp into 50 Ω ($\approx$ -56 to +24 dBm) with 0.01 dB amplitude resolution. Internal AM/PM; channel-to-channel modulation; HP-IB.
Model	3326A
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	Two-Channel Synthesizer
Alias	3326A; HP 3326A; Agilent 3326A Frequency / Amplitude DC-13 MHz; dual channel; levels and resolution as above Operational Notes Prefer HP Journal / 3326A datasheet literature. Confirm options (e.g. Opt 002) on unit.
Resolution	1 μ Hz (<100 kHz); 1 mHz (100 kHz-13 MHz)
Amplitude	~1 mVpp to 10 Vpp into 50 Ω ; 0.01 dB resolution
Discrete sweep	2-63 frequency pairs with per-point dwell

3326A Specifications

PARAMETER	VALUE
Applications	Two-tone stimulus; calibrated phase-offset signals; broadband two-tone sweep; pulse and modulation source for bench/systems.
Key Features	- Two independent DC-13 MHz synthesizer channels
Technical Specifications	Model: 3326A
Frequency / Amplitude	DC-13 MHz; dual channel; levels and resolution as above
Operational Notes	Prefer HP Journal / 3326A datasheet literature. Confirm options (e.g. Opt 002) on unit.

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
Model	3326A
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	Two-Channel Synthesizer
Alias	3326A; HP 3326A; Agilent 3326A

Frequency / Amplitude

DC-13 MHz; dual channel; levels and resolution as above

Operational Notes

Prefer HP Journal / 3326A datasheet literature. Confirm options (e.g. Opt 002) on unit.

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

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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.