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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 3325A Synthesizer/Function Generator

HP Agilent 3325A Synthesizer Function Generator 1 uHz to 21 MHz The HP 3325A is a programmable synthesizer/function generator producing sine to 20.999999999 MHz, square to 10.999999999 MHz, and triangle/ramps to 10.999999999 Hz with 1 uHz minimum and up to eleven digits of resolution. Amplitude is 1 mV to 10 V peak to peak into 50 ohm. HP-IB control, linear/log sweep, and optional high-voltage output (Opt 002) to 40 V p-p into greater than or equal to 500 ohm. Optional oven timebase (Opt 001). Precision sine/square/triangle stimulus; swept-frequency component test; ATE analog source; phase-continuous frequency switching. The HP 3325A is a programmable synthesizer/function generator producing sine to 20.999999999 MHz, square to 10.999999999 MHz, and triangle/ramps to 10.999999999 Hz with 1 uHz minimum and up to eleven digits of resolution. Amplitude is 1 mV to 10 V peak to peak into 50 ohm. HP-IB control, linear/log sweep, and optional high-voltage output (Opt 002) to 40 V p-p into greater than or equal to 500 ohm. Optional oven timebase (Opt 001). Precision sine/square/triangle stimulus; swept-frequency component test; ATE analog source; phase-continuous frequency switching.



MODEL

**Keysight / Agilent /
HP 3325A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3325A

LISTING

[https://aumictechlabs.c
om/products/3325a-2/](https://aumictechlabs.com/products/3325a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight/Agilent/HP 3325A is a synthesizer/function generator combining precision signal generation with full programmability for ATE systems and electronic development. It generates sine, square, triangle, and ramp waveforms from 1 μ Hz to 21 MHz (sine), with auxiliary outputs extending to 61 MHz. Frequency resolution reaches 1 μ Hz below 100 kHz and 1 mHz above, backed by $\pm 5 \times 10^{-6}$ accuracy. The instrument delivers 1 mV to 10 V peak-to-peak output into 50 Ω loads with selectable amplitude display in V rms or dBm. Phase-continuous logarithmic, linear, and discrete sweeps span the full frequency range with variable sweep times and marker output. External AM and PM modulation, variable phase offset to $\pm 719.9^\circ$, and DC offset to ± 4.5 V (± 18 V with Option 002) enable complex signal conditioning. Sine harmonics measure 65 dB down below 50 kHz; square waves exhibit ≤ 20 ns rise/fall time; triangle and ramp linearity holds to 0.05%. Ten front-panel storage registers recall instrument setups instantly. HP-IB programmability integrates into automated test systems. External reference input (0 dBm to +20 dBm, 1 MHz to 10 MHz) enables phase-locking to external standards. Warm-up to specified accuracy requires 20 minutes. Optional high-stability reference (Option 001) improves aging to $\pm 5 \times 10^{-8}$ /week; Option 002 extends output capability. Housed in a compact 5.25" $\times$ 16.75" $\times$ 19.63" package drawing 90 VA, the 3325A operates across 0°C to 55°C at up to 95% relative humidity.

Features & description

From manufacturer datasheet

Features

- Synthesized frequency with 1 uHz resolution across eleven digits

3325A Characteristics / Specifications

PARAMETER	VALUE
Model	3325A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Synthesizer Function Generator
Alias	3325A; HP 3325A; Agilent 3325A
Sine Range	1 uHz to 20.999999999 MHz
Square Range	1 uHz to 10.999999999 MHz
Triangle Range	1 uHz to 10.999999999 kHz
Ramp Range	1 uHz to 10.999999999 kHz positive or negative slope
Frequency Resolution	up to 11 digits (1 uHz)
Frequency Accuracy	plus or minus 5E-6 of selected value (20 C to 30 C standard)
Amplitude Range	1 mV to 10 V peak to peak into 50 ohm
Amplitude Units	V p-pVrms or dBm (50 ohm)
Sine Amplitude Accuracy	plus or minus 0.1 dB (100 kHz to 20 MHz no attenuator no DC offset into 50 ohm range 1)
Square Amplitude Accuracy	plus or minus 1.0 percent class (no attenuator no DC offset)
DC Offset With AC	up to plus or minus 4.5 V
DC Only Output	up to plus or minus 5 V
DC Offset Accuracy	plus or minus 0.4 percent of full output per range (DC only into 50 ohm)
Output Impedance	50 ohm
High Voltage Option	Opt 002 up to 40 V p-p into greater than or equal to 500 ohm
Oven Option	Opt 001 high-stability timebase with 10 MHz oven output
Interface	HP-IB (IEEE 488)
Sweep	frequency sweep (linear/log class per operating manual)
Phase Offset	programmable
Minimum Frequency	1 uHz all functions

PARAMETER	VALUE
Warm Up	per operating manual before specified accuracy
Related Board	03325-66509 oscillator board spare
Related Model	3325B successor
Form	benchtop/system half-rack class synthesizer Notes Frequency amplitude and offset from HP 3325A operating manual 03225-90022. Confirm Opt 001/002 on the rear label and serial prefix before quoting oven or high-voltage limits.

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	3325A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Synthesizer Function Generator
Specifications	
PARAMETER	VALUE
Alias	3325A; HP 3325A; Agilent 3325A
Sine Range	1 uHz to 20.999999999 MHz
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PARAMETER	VALUE
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Ramp Range	1 uHz to 10.999999999 kHz positive or negative slope
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Specifications	
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PARAMETER	VALUE
Sine Amplitude Accuracy	plus or minus 0.1 dB (100 kHz to 20 MHz no attenuator no DC offset into 50 ohm range 1)
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DC Offset With AC	up to plus or minus 4.5 V

Specifications

PARAMETER	VALUE
DC Only Output	up to plus or minus 5 V
DC Offset Accuracy	plus or minus 0.4 percent of full output per range (DC only into 50 ohm)
Output Impedance	50 ohm

Specifications

PARAMETER	VALUE
High Voltage Option	Opt 002 up to 40 V p-p into greater than or equal to 500 ohm
Oven Option	Opt 001 high-stability timebase with 10 MHz oven output
Interface	HP-IB (IEEE 488)

Specifications

PARAMETER	VALUE
Sweep	frequency sweep (linear/log class per operating manual)
Phase Offset	programmable
Minimum Frequency	1 uHz all functions

Specifications

PARAMETER	VALUE
Warm Up	per operating manual before specified accuracy
Related Board	03325-66509 oscillator board spare
Related Model	3325B successor

Form: benchtop/system half-rack class synthesizer

Notes

Frequency amplitude and offset from HP 3325A operating manual 03225-90022. Confirm Opt 001/002 on the rear label and serial prefix before quoting oven or high-voltage limits.

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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<https://aumictechlabs.com>

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.