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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 03325-66509 Oscillator Board

The Keysight/Agilent/HP 03325-66509 is an oscillator board designed for use in electronic test and measurement equipment. This board generates stable and precise signals, crucial for accurate testing and calibration. It ensures reliable performance within compatible Keysight, Agilent, and HP devices, maintaining signal integrity and contributing to overall system accuracy.



MODEL

**Keysight / Agilent /
HP 03325-66509**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

03325-66509

LISTING

[https://aumictechlabs.c
om/products/03325-66
509-2/](https://aumictechlabs.com/products/03325-66509-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight/Agilent/HP 03325-66509 is an oscillator board that generates stable and precise reference frequencies for the HP 3325A Synthesizer/Function Generator. This component is essential for maintaining signal integrity and ensuring accurate test and measurement performance across the instrument's full operating range. The board operates with exceptional frequency stability and low phase noise characteristics, making it critical for applications requiring high-resolution frequency synthesis and reliable waveform generation. Technical Specifications Model: 03325-66509 Manufacturer: Keysight / Agilent / HP Product Type: Oscillator Board Primary Function: Reference frequency generation for HP 3325A Frequency Stability (Aging Rate):

$\pm 5 \times 10^{-6}$ /year Frequency Stability (Ambient, 0° to +55°C): $\pm 5 \times 10^{-8}$ Phase Noise: Harmonics 65 dB down below 50 kHz Reference Input: Accepts external frequency reference 0 dBm to +20 dBm into 50 Ω , subharmonic of 10 MHz (1 MHz to 10 MHz typical) NSN: 5998-01-160-4468 Weight: Approximately 3 lbs Key Features Enables HP 3325A sine wave generation from 1 μ Hz to 20.999 999 999 MHz with 11-digit frequency resolution Supports square waveform generation to 10.999 999 999 MHz Enables triangle and ramp waveform generation to 10.999 999 999 kHz Frequency resolution: 1 μ Hz below 100 kHz; 1 mHz above 100 kHz Supports external AM and PM modulation control Accepts external frequency reference inputs for synchronization Typical Applications Precision frequency synthesis and calibration Waveform generation for signal integrity testing Harmonic and subharmonic signal generation Instrumentation requiring stable frequency references Compatibility & Integration This oscillator board is specifically designed as a component for the HP 3325A Synthesizer/Function Generator. It integrates with Option 001 (high-stability crystal oscillator OCXO) and Option 002 (High Voltage Output) configurations. Related documentation includes the HP 3325A Operating and Service Manual (03325-90) and Service Manual 03325-90003.

Features & description

From manufacturer datasheet

Applications

- 3325A oscillator-board replacement

0332566509 Characteristics / Specifications

PARAMETER	VALUE
Model	03325-66509
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Oscillator Board
Alias	03325-66509
Parent Instrument	3325A synthesizer/function generator
Parent Sine Range	1 uHz to 20.999999999 MHz
Parent Square Range	1 uHz to 10.999999999 MHz
Function	oscillator / synthesis PCA
Form	service printed-circuit assembly
NotAGenerator	board only
Host Chassis	3325A
Related Opt 0	3325A oven timebase is a different assembly
Status	HP 3325A service part
Installation	match 3325A serial prefix
ESD	analog/RF PCA
Documentation	3325A service oscillator
Calibration	3325A frequency/amplitude cal after swap
Compatibility	3325A
Use	restore synthesis
Identification	03325-66509
Power	3325A supplies
Cooling	3325A airflow
Not 3325B	confirm A versus B oscillator dash
Interface Parent	HP-IB on 3325A Notes Oscillator-board identity from HP 03325-66509 for 3325A. After replacement calibrate the 3325A. Instrument ranges are on the 3325A OEM file.

0332566509 Specifications

PARAMETER	VALUE
Applications	- 3325A oscillator-board replacement
Key Features	- Oscillator PCA 03325-66509
Technical Specifications	Model: 03325-66509

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.

performance belongs to the calibrated 3325A, not the bare board.

Applications

- 3325A oscillator-board replacement
- Restore synthesis
- Service PCA

Key Features

- Oscillator PCA 03325-66509
- Parent 3325A
- See keysight-3325a.txt for instrument specs

Technical Specifications

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PARAMETER	VALUE
Model	03325-66509
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Oscillator Board

Specifications

PARAMETER	VALUE
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Specifications

PARAMETER	VALUE
Parent Square Range	1 uHz to 10.999999999 MHz
Function	oscillator / synthesis PCA
Form	service printed-circuit assembly

Specifications

PARAMETER	VALUE
NotAGenerator	board only
Host Chassis	3325A

PARAMETER	VALUE
Related Opt 001	3325A oven timebase isadifferent assembly

Specifications

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Status	HP 3325A service part
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Specifications

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Specifications

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Specifications

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Cooling	3325A airflow
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Interface Parent	HP-IB on 3325A

Notes

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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.