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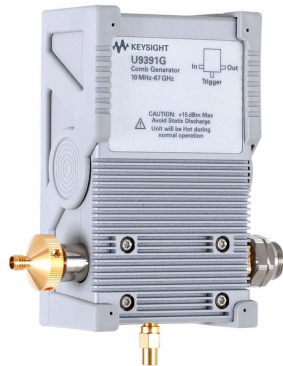
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U9391G

Agilent Keysight U9391G Comb Generator 10 MHz to 67 GHz The Keysight U9391G extends the U9391 comb generator family to 67 GHz output for 67 GHz PNA-X NVNA phase calibration. OEM tables list 10 MHz to 67 GHz output, identical 10 MHz to 6 GHz input range, and higher bias current than U9391C/F. 67 GHz nonlinear VNA phase reference/calibration and millimeter-wave converter delay characterization. USB control with plus 15 Vdc external supply The Keysight U9391G extends the U9391 comb generator family to 67 GHz output for 67 GHz PNA-X NVNA phase calibration. OEM tables list 10 MHz to 67 GHz output, identical 10 MHz to 6 GHz input range, and higher bias current than U9391C/F. 67 GHz nonlinear VNA phase reference/calibration and millimeter-wave converter delay characterization. USB control with plus 15 Vdc external supply Selectable divide ratios for tone spacing



MODEL

**Agilent / Keysight
U9391G**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U9391G

LISTING

<https://aumictechlabs.com/products/u9391g-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U9391G is a comb generator that generates frequency harmonics from an input RF signal to deliver precision phase calibration for non-linear measurements. Built on Keysight's InP MMIC technology, It has superior phase stability and excellent amplitude and phase flatness across a wide frequency range. The U9391G is optimized for use with the Keysight PNA-X nonlinear vector network analyzer (NVNA) and supports phase and delay measurements of frequency converters. Technical Specifications Frequency Performance Input frequency range: 10

MHz to 6 GHz Output frequency range: 10 MHz to 67 GHz Minimum tone spacing: 10 MHz Selectable divide ratios: 1, 2, 4, 8, or 16 Signal Quality Amplitude flatness: Excellent across frequency range Phase flatness: Excellent for precise calibration Phase stability: Superior, enabled by InP MMIC technology Lower sensitivity compared to competing comb generators, allowing single-point calibration across broad input power and frequency ranges

Key Features InP MMIC technology ensures superior phase and amplitude stability NIST-referenced phase calibration traceability Sine-to-square wave converter (U9391-60009) included as standard accessory for optimal performance with sine wave inputs below 100 MHz USB interface for plug-and-play operation with PNA-X, enabling frequency divider control and calibration data retrieval Trigger output available for synchronization with pulse repetition frequency Rugged connectors designed for high repeatability across multiple connections Handgrip included for improved handling and heat insulation Extended operating life

Typical Applications Precision phase calibration for non-linear network analysis Phase and delay measurements of frequency converters Wideband calibration of signal analyzers and oscilloscopes (with Keysight Signal Optimizer software K3101A)

Compatibility & Integration The U9391G integrates directly with the Keysight PNA-X NVNA via USB interface. It also supports phase and delay calibration of PNA and PNA-X network analyzers for frequency converter measurements.

U9391G Characteristics / Specifications

PARAMETER	VALUE
Model	U9391G
Instrument Type	microwave comb generator
Output Frequency Range	10 MHz to 67 GHz
Input Frequency Range	10 MHz to 6 GHz
Input Power Range	minus 15 to plus 15 dBm
Minimum Output Power Per Picket	minus 100 dBm at 10 MHz input PRF
Amplitude Flatness Versus Output Frequency	less than 40 dB at 10 MHz input PRF
Amplitude Flatness Versus Input Power Typical	1.0 dB
Pulse Width	less than 23 ps
Divide Ratio	1 2 4 8 16
Input Return Loss S	greater than 10 dB from 10 MHz to 6 GHz
Output Return Loss S22 10 MHz to 20 GHz	greater than 10 dB
Output Return Loss S22 20 GHz to 45 GHz	greater than 7 dB
Output Return Loss S22 45 GHz to 67 GHz	greater than 5 dB
Drive Supply Voltage	plus 15 Vdc plus or minus 10 percent
Drive Supply Current Nominal	850 mA
Control Interface	USB
Minimum Tone Spacing	10 MHz
Form Factor	compact RF module
Series Family	Keysight U9391
Related Models	U9391C U9391F
Phase Flatness 50 GHz to 67 GHz	plus 35 / minus 35 degrees

PARAMETER	VALUE
Operating Temperature Class	laboratory 0 C to 40 C class
Operating temperature	Class: laboratory 0 C to 40 C class
Return loss	S11: greater than 10 dB from 10 MHz to 6 GHz

U9391G Specifications

PARAMETER	VALUE
Agilent Keysight U9391G Comb Generator 10 MHz to 67 GHz	Overview
Applications	67 GHz nonlinear VNA phase reference/calibration and millimeter-wave converter delay characterization.
Key Features	67 GHz harmonic comb coverage
Technical Specifications	Model: U9391G
Notes	Numeric rows from Agilent/Keysight U9391C/F/G comb generator technical overview specification table for U9391G.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory 0 C to 40 C class
Operating Temperature	Class: laboratory 0 C to 40 C class
Operating Temperature Class	laboratory 0 C to 40 C class Notes Numeric rows from Agilent/Keysight U9391C/F/G comb generator technical overview specification table for U9391G.

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	U9391G
Instrument Type	microwave comb generator
Output Frequency Range	10 MHz to 67 GHz
Input Frequency Range	10 MHz to 6 GHz
Input Power Range	minus 15 to plus 15 dBm
Minimum Output Power Per Picket	minus 100 dBm at 10 MHz input PRF
Amplitude Flatness Versus Output Frequency	less than 40 dB at 10 MHz input PRF
Amplitude Flatness Versus Input Power Typical	1.0 dB
Pulse Width	less than 23 ps
Divide Ratio	1 2 4 8 16
Input Return Loss S11	greater than 10 dB from 10 MHz to 6 GHz
Output Return Loss S22 10 MHz to 20 GHz: greater than 10 dB	
Output Return Loss S22 20 GHz to 45 GHz: greater than 7 dB	
Output Return Loss S22 45 GHz to 67 GHz: greater than 5 dB	
Specifications	
PARAMETER	VALUE
Drive Supply Voltage	plus 15 Vdc plus or minus 10 percent
Drive Supply Current Nominal	850 mA
Control Interface	USB
Minimum Tone Spacing	10 MHz
Form Factor	compact RF module
Series Family	Keysight U9391
Related Models	U9391C U9391F
Phase Flatness 50 GHz to 67 GHz	plus 35 / minus 35 degrees
Operating Temperature Class	laboratory 0 C to 40 C class

Notes

Numeric rows from Agilent/Keysight U9391C/F/G comb generator technical overview specification table for U9391G.

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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NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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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.