

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83630L Synthesized Swept-CW Generator, 10 MHz to 26.5 GHz, +13 dBm calibrated

HP / Agilent 83630L Synthesized Swept CW Generator 10 MHz to 26.5 GHz The HP/Agilent 83630L is the 10 MHz to 26.5 GHz 8360L synthesized swept-CW generator. Maximum leveled power is +13 dBm below 20 GHz and +10 dBm from 20 GHz to 26.5 GHz, matching the 83630B power table but without B-series pulse/AM/FM (Options 002 and 006 not applicable).

Resolution is 1 kHz standard, 1 Hz with Option 008. RF output is precision 3.5 mm male.

Broadband CW and swept stimulus to 26.5 GHz without modulation hardware; filter and converter characterization; LO substitution; user-flatness-corrected ATE at K-band. The

HP/Agilent 83630L is the 10 MHz to 26.5 GHz 8360L synthesized swept-CW generator.

Maximum leveled power is +13 dBm below 20 GHz and +10 dBm from 20 GHz to 26.5 GHz, matching the 83630B power table but without B-series pulse/AM/FM (Options 002 and 006 not applicable). Resolution is 1 kHz standard, 1 Hz with Option 008. RF output is precision 3.5 mm male. Broadband CW and swept stimulus to 26.5 GHz without modulation hardware; filter and converter characterization; LO substitution; user-flatness-corrected ATE at K-band.



MODEL

**HP / Agilent
83630L**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83630L

LISTING

<https://aumictechlabs.com/products/83630L-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 83630L is a synthesized swept-CW generator delivering precise signal generation across 10 MHz to 26.5 GHz with +13 dBm calibrated output power. Built for microwave component and system testing, it combines wide frequency coverage with analog sweep capability, multiple modulation formats, and step-attenuator support for dynamic range extension to -110 dBm minimum settable output. Technical Specifications Frequency Range: 10 MHz to 26.5 GHz Output Power: Calibrated at +13 dBm; -110 dBm minimum settable with step attenuator (Option 001). Typical harmonics: -50 dBc below 26.5 GHz. Leveled output power is reduced by 1.5 dB to 20 GHz, 2 dB above 20 GHz, and 2.5 dB above 40 GHz. Temperature specification window: 15 °C to 35 °C (degraded 0.3 dB outside this range). Phase Noise: SSB phase noise <-80 dBc at 10 GHz, 10 kHz offset. Frequency Resolution: 1 kHz standard; 1 Hz with Option 008. Output power resolution: 0.02 dB. Frequency Switching Time: 10 ms typical (without attenuator change). Step sweep switching: 15 ms + (step size/1 GHz) × 5 ms within a frequency band. Temperature Stability: 0.01 dB/°C typical. Key Features Analog sweep engine supporting CW, step, list, manual, and ramp sweep modes Step sweep capability from 2 to 801 points Wideband FM, linear and log AM, pulse modulation (≥400 MHz), and scan modulation FSK simulation via external generator HP-IB (IEEE 488.1) control interface Coupled attenuator mode operation for leveled output accuracy Integrated power meter control via 437B for user flatness correction Typical Applications Microwave component design and verification, communications signal simulation, telemetry tone generation, antenna scanning systems, and radar subsystem testing. Compatibility & Integration 8510 network analyzer compatibility. Controlled power meter integration supports user-defined flatness correction across the operating band.

Features & description

From manufacturer datasheet

Features

- 8360L swept-CW to 26.5 GHz (no pulse/AM/FM)
- Same leveled-power breakpoints as 83630B (+13/+10 dBm)
- Step, list, and ramp sweep; 801-point tables
- Option 001 attenuator: -110 dBm settable; 1.5 dB max-power derate to 20 GHz, 2 dB above 20 GHz
- Auxiliary 2 to 26.5 GHz unmodulated reference, typically -10 dBm
- Type-N to 3.5 mm and 3.5 mm to 3.5 mm adapters supplied

83630L Characteristics / Specifications

PARAMETER	VALUE
Model	83630L
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Synthesized swept CW generator
Family	8360L Series
Alias	HP 83630L; Agilent 83630L; Keysight 83630L
Frequency Range	10 MHz to 26.5 GHz
Standard Frequency Resolution	1 kHz
Timebase Aging Rate	5e-10 per day; 1e-7 per year
Maximum Leveled Power Below 20 GHz	+13 dBm
Maximum Leveled Power 20 to 26.5 GHz	+10 dBm
Minimum Settable Power Standard	-20 dBm
Minimum Settable Power Option 0	-110 dBm
Attenuator Derating To 20 GHz	1.5 dB
Attenuator Derating Above 20 GHz	2 dB
Power Resolution	0.02 dB
Power Switching Time Typical	10 ms without attenuator change
Power Accuracy Above minus 10 dBm 2 to 20 GHz	plus/minus 0.7 dB
Power Accuracy Above minus 10 dBm 20 to 40 GHz	plus/minus 0.9 dB
Harmonics Below 2 GHz Standard	-30 dBc
Harmonics 2 to 26.5 GHz Standard	-50 dBc
Subharmonics Below 7 GHz	none
Subharmonics 7 to 20 GHz	-50 dBc
Subharmonics 20 to 40 GHz	-50 dBc
Phase Noise 13.5 to 20 GHz at 10 kHz Offset	-76 dBc/Hz

PARAMETER	VALUE
Phase Noise 20 to 26.5 GHz at 10 kHz Offset	-74 dBc/Hz
CW Switching Within Band	15 ms plus 5 ms per GHz step
CW Switching Maximum Or Band Cross	50 ms
Step Sweep Points	2 to 801
List Mode Points	1 to 801
Dwell Time	100 us to 3.2 s
Ramp Sweep Time	10 ms to 100 s; 300 MHz/ms maximum rate
User Flatness Points Per Table	2 to 801
User Flatness Tables	up to 8
Source Match Typical Below 20 GHz	1.6:1 SWR internally leveled
RF Connector	precision 3.5 mm male
Net Weight	27 kg (60 lb)
Dimensions	178 mmHx 425 mmWx 648 mmDMains: 48 to 66 Hz; 115 V or 230 V; 400 VA maximum
Operating Temperature	0 C to 55 C
Leveled Power Above 20 GHz Temperature	0 C to 25 C for the max-power spec
Warm Up Operation	30 minutes from cold start
RelatedBModel	83630B same span and power with pulse/AM/FM

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 55 C
Operating Temperature	0 C to 55 C
Leveled Power Above 20 GHz Temperature	0 C to 25 C for the max-power spec
Warm Up Operation	30 minutes from cold start
RelatedBModel	83630B same span and power with pulse/AM/FM Notes Specs from Agilent 8360B/L data sheet 5964-6162E 83630B/L column. This file is the L (swept CW) instrument. Distinct from 83630A and from 8510-dedicated 83631B. Confirm Option 001/008; do not quote B-series pulse rows.

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	83630L
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Synthesized swept CW generator
Family	8360L Series
Alias	HP 83630L; Agilent 83630L; Keysight 83630L
Frequency Range	10 MHz to 26.5 GHz
Standard Frequency Resolution	1 kHz

Option 008 Frequency Resolution: 1 Hz

Specifications

PARAMETER	VALUE
Timebase Aging Rate	5e-10 per day; 1e-7 per year
Maximum Levelled Power Below 20 GHz	+13 dBm
Maximum Levelled Power 20 to 26.5 GHz	+10 dBm

Option 006 Pulse: not applicable

Specifications

PARAMETER	VALUE
Minimum Settable Power Standard	-20 dBm
Minimum Settable Power Option 001	-110 dBm
Attenuator Derating To 20 GHz	1.5 dB
Attenuator Derating Above 20 GHz	2 dB
Power Resolution	0.02 dB
Power Switching Time Typical	10 ms without attenuator change

Power Accuracy Above minus 10 dBm 2 to 20 GHz: plus/minus 0.7 dB
Power Accuracy Above minus 10 dBm 20 to 40 GHz: plus/minus 0.9 dB

Specifications

PARAMETER	VALUE
Harmonics Below 2 GHz Standard	-30 dBc
Harmonics 2 to 26.5 GHz Standard	-50 dBc
Subharmonics Below 7 GHz	none
Subharmonics 7 to 20 GHz	-50 dBc
Subharmonics 20 to 40 GHz	-50 dBc

Phase Noise 13.5 to 20 GHz at 10 kHz Offset: -76 dBc/Hz

Phase Noise 20 to 26.5 GHz at 10 kHz Offset: -74 dBc/Hz

Specifications

PARAMETER	VALUE
CW Switching Within Band	15 ms plus 5 ms per GHz step
CW Switching Maximum Or Band Cross	50 ms
Step Sweep Points	2 to 801
List Mode Points	1 to 801
Dwell Time	100 us to 3.2 s
Ramp Sweep Time	10 ms to 100 s; 300 MHz/ms maximum rate
User Flatness Points Per Table	2 to 801
User Flatness Tables	up to 8
Source Match Typical Below 20 GHz	1.6:1 SWR internally leveled
RF Connector	precision 3.5 mm male
Net Weight	27 kg (60 lb)
Dimensions	178 mmHx 425 mmWx 648 mmDMains: 48 to 66 Hz; 115 V or 230 V; 400 VA maximum
Operating Temperature	0 C to 55 C
Leveled Power Above 20 GHz Temperature	0 C to 25 C for the max-power spec
Warm Up Operation	30 minutes from cold start
RelatedBModel	83630B same span and power with pulse/AM/FM

Notes

Specs from Agilent 8360B/L data sheet 5964-6162E 83630B/L column. This file is the L (swept CW) instrument. Distinct from 83630A and from 8510-dedicated 83631B. Confirm Option 001/008; do not quote B-series pulse rows.

Ordering Information

OPTION	DESCRIPTION
Option 001	attenuator: -110 dBm settable; 1.5 dB max-power derate to 20 GHz, 2 dB above 20 GHz
Option 008	Frequency Resolution: 1 Hz
Option 006	Pulse: not applicable

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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