

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 8444A Tracking generator for 8554B, 8555A

HP 8444A Tracking Generator for 8554B / 8555A Spectrum Analyzer RF Sections The HP 8444A Tracking Generator complements 8554B and 8555A Spectrum Analyzer RF sections. It converts the analyzer first and third LO signals into tracking RF output for frequency-response measurements, and can also serve as a CW or swept signal source. An auxiliary counter output supports precision frequency measurement. Option 059 extends coverage to 1500 MHz for later analyzers. Swept frequency-response measurements with 140-series spectrum analyzers; CW generator locked to analyzer tuning; precision frequency counting via aux output. The HP 8444A Tracking Generator complements 8554B and 8555A Spectrum Analyzer RF sections. It converts the analyzer first and third LO signals into tracking RF output for frequency-response measurements, and can also serve as a CW or swept signal source. An auxiliary counter output supports precision frequency measurement. Option 059 extends coverage to 1500 MHz for later analyzers. Swept frequency-response measurements with 140-series spectrum analyzers; CW generator locked to analyzer tuning; precision frequency counting via aux output.



MODEL

**HP / Agilent
8444A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8444A

LISTING

<https://aumictechlabs.com/products/8444a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 8444A Tracking Generator is a synthesized, frequency-tracking signal source engineered to complement spectrum analyzers including the 8554B and 8555A. It delivers leveled, calibrated RF output across a wide frequency range, enabling swept frequency measurements and direct frequency response characterization of filters, amplifiers, and network components.

Technical Specifications

Frequency Coverage 0.5 MHz to 1.3 GHz (standard) 0.5 MHz to 1.5 GHz (with Option 059) **Frequency resolution:** 1 kHz **Output Characteristics**

Continuously variable output level: 0 dBm to -10 dBm **Amplitude accuracy:** ± 0.5 dB (0.5 to 1300 MHz); ± 0.75 dB (0.5 to 1500 MHz) **Tracking generator calibration:** 0 dBm ± 0.5 dB at 30 MHz **System frequency response:** ± 2.7 dB **Dynamic range:** >90 dB **Spectral Purity**

Spurious signals: ≥ 35 dB below output level **Harmonic distortion:** 25 dB below output level (typical) **Residual FM noise (peak-to-peak):** 200 Hz (stabilized); <10 kHz (unstabilized) **Interfaces**

Output connector: Type N female **Counter output:** 0.1 V rms (typical) **500 MHz third LO output:** Available with Option 059 **Physical Weight (with Option 059):** 7.1 kg (15.6 lb)

Key Features

- Phase-locked synthesis for precise frequency tracking
- Leveled output maintains constant amplitude across swept frequency range
- Greater than 90 dB dynamic range from 1 dB gain compression to noise floor
- Residual FM noise stabilization reduces measurement uncertainty

Typical Applications

- Filter and amplifier frequency response measurement
- Network component characterization
- Swept frequency analysis of RF/microwave circuits
- Direct gain/loss measurements on two-port networks

Compatibility & Integration

The 8444A integrates with HP/Agilent spectrum analyzers including the 8554B, 8555A, 8590A/B, 8568A/B, and 8558B. When paired with the 8555A, frequency coverage extends to 18 GHz via internal mixer configuration.

Features & description

From manufacturer datasheet

Features

- Tracks 8554B: 500 kHz to 1250 MHz • Tracks 8555A: 10 MHz to 1300 MHz • Option 059: 500 kHz to 1500 MHz class with internal 500 MHz third LO • Drive level 0 to -10 dBm continuously variable; 0 dBm calibrated plus/minus 0.5 dB at 30 MHz • Flatness plus/minus 0.5 dB over core bands • Residual FM depends on analyzer stabilized/unstabilized state

8444A Key Specifications

PARAMETER	VALUE
Tracks 8554B	500 kHz to 1250 MHz
Tracks 8555A	10 MHz to 1300 MHz
Option 059	500 kHz to 1500 MHz class with internal 500 MHz third LO

8444A Characteristics / Specifications

PARAMETER	VALUE
Model	8444A
Manufacturer	Hewlett Packard
Instrument Type	Tracking generator for spectrum analyzer RF sections
Frequency Range With 8554B	500 kHz to 1250 MHz
Frequency Range With 8555A	10 MHz to 1300 MHz
Frequency Range Option 0	500 kHz to 1500 MHz
Drive Level To Test Device	0 to -10 dBm continuously variable
Calibration At 30 MHz	0 dBm plus/minus 0.5 dB
Output Flatness Core Band	plus/minus 0.5 dB (0.5 to 1300 MHz class)
Output Flatness To 1500 MHz Option 0	plus/minus 0.75 dB
Frequency Accuracy With 8554B Dial	plus/minus 10 MHz
Frequency Accuracy With 8555A Dial	plus/minus 15 MHz
Residual FM Stabilized Typical	200 Hz peak to peak
Residual FM Unstabilized Typical	10 kHz peak to peak
Harmonic Distortion	25 dB below output level
Nonharmonic Spurious	greater than 40 dB below output level
Long Term Stability Typical	less than 30 kHz/hour after 2 hour warmup when stabilized
Frequency Resolution Class	1 kHz
Full Scan With 8554B	0 to 1250 MHz
Full Scan With 8555A	0 to 1300 MHz
Scan Per Division 8555A	2 kHz/div to 200 MHz/div (2 5 10 sequence)
Scan Per Division 8554B	2 kHz/div to 100 MHz/div (2 5 10 sequence)
Auxiliary Counter Output	yes
Alias	HP 8444A; HP 8444A Option 059

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	8444A
Manufacturer	Hewlett Packard
Instrument Type	Tracking generator for spectrum analyzer RF sections
Frequency Range With 8554B	500 kHz to 1250 MHz
Frequency Range With 8555A	10 MHz to 1300 MHz
Frequency Range Option 059	500 kHz to 1500 MHz
Drive Level To Test Device	0 to -10 dBm continuously variable
Calibration At 30 MHz	0 dBm plus/minus 0.5 dB
Output Flatness Core Band	plus/minus 0.5 dB (0.5 to 1300 MHz class)
Output Flatness To 1500 MHz Option 059	plus/minus 0.75 dB
Frequency Accuracy With 8554B Dial	plus/minus 10 MHz
Frequency Accuracy With 8555A Dial	plus/minus 15 MHz
Residual FM Stabilized Typical	200 Hz peak to peak
Residual FM Unstabilized Typical	10 kHz peak to peak
Harmonic Distortion	25 dB below output level
Nonharmonic Spurious	greater than 40 dB below output level
Long Term Stability Typical	less than 30 kHz/hour after 2 hour warmup when stabilized
Frequency Resolution Class	1 kHz
Full Scan With 8554B	0 to 1250 MHz
Full Scan With 8555A	0 to 1300 MHz
Scan Per Division 8555A	2 kHz/div to 200 MHz/div (2 5 10 sequence)
Scan Per Division 8554B	2 kHz/div to 100 MHz/div (2 5 10 sequence)
Auxiliary Counter Output	yes
Option 059 Third LO: internal 500 MHz oscillator for analyzers lacking third LO Alias: HP 8444A; HP 8444A Option 059	
Notes	
Specs from HP 8444A operating/service manual and Option 059 appendix. Performance is as system with the paired	

RF section; confirm Option 058/059 and analyzer model before quoting upper frequency.

Ordering Information

OPTION	DESCRIPTION
Option 059	extends coverage to 1500 MHz for later analyzers.

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.