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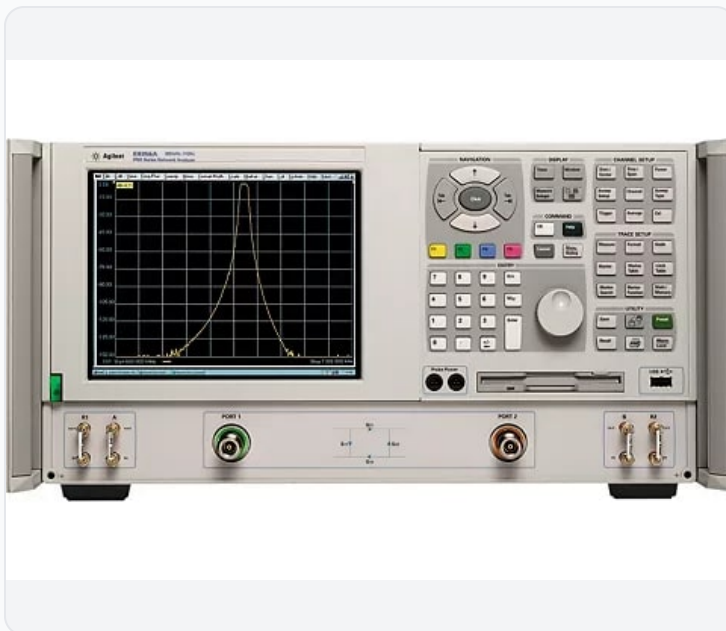
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8357A 6GHz PNA Network Analyzer

Agilent / Keysight E8357A PNA RF Network Analyzer 300 kHz to 6.0 GHz The Agilent E8357A is a 2-port four-receiver PNA Series RF vector network analyzer covering 300 kHz to 6.0 GHz. OEM PNA RF data sheets rate test-port system dynamic range of 125 dB from 300 kHz to 25 MHz and 128 dB from 25 MHz to 3 GHz, with receiver-input dynamic range to 143 dB from 25 MHz to 3 GHz, frequency resolution of 1 Hz, and source power range about -85 to +10 dBm to 6 GHz. RF S-parameter characterization, filter and amplifier production test, in-fixture TRL measurements, and high-dynamic-range component analysis to the model upper frequency. The Agilent E8357A is a 2-port four-receiver PNA Series RF vector network analyzer covering 300 kHz to 6.0 GHz. OEM PNA RF data sheets rate test-port system dynamic range of 125 dB from 300 kHz to 25 MHz and 128 dB from 25 MHz to 3 GHz, with receiver-input dynamic range to 143 dB from 25 MHz to 3 GHz, frequency resolution of 1 Hz, and source power range about -85 to +10 dBm to 6 GHz. RF S-parameter characterization, filter and amplifier production test, in-fixture TRL measurements, and high-dynamic-range component analysis to the model upper frequency.



MODEL

**Agilent / Keysight
E8357A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8357A

LISTING

<https://aumictechlabs.com/products/e8357a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E8357A is a 2-port PNA network analyzer operating from 300 kHz to 6 GHz, engineered for high-speed microwave component characterization in R&D and manufacturing environments. It delivers a maximum dynamic range of 125 dBm and output power to 10 dBm, enabling accurate S-parameter measurements of filters, amplifiers, antennas, and passive devices. The instrument combines exceptionally fast sweep speeds with low trace noise and supports segmented sweeps and limit-line testing for efficient pass/fail validation.

Technical Specifications
Frequency Range: 300 kHz to 6000 MHz (6 GHz)
Ports: 2
Maximum Dynamic Range: 125 dBm
Maximum Output Power: 10 dBm

Key Features
Fast sweep speeds without performance compromise
Segmented sweep capability for optimized test efficiency
Low trace noise ensures measurement repeatability
Pass/fail testing via limit lines
Full two-port electronic calibration (ECal) with USB control of ECal modules
Automated error correction delivers residual performance after calibration

Typical Applications
Filter, amplifier, and antenna characterization
Impedance and time-domain analysis
High-power amplifier measurements
Mixer, converter, and tuner measurements using frequency-offset techniques
In-fixture device testing
Material properties measurement with compatible dielectric probe kits

Connectivity & Integration
USB, GPIB, LAN, serial, and parallel interfaces for test equipment interconnection
Windows 2000-based graphical user interface
Hardkey and drop-down menu operation
Integrated automation for increased productivity

E8357A Characteristics / Specifications

PARAMETER	VALUE
Model	E8357A
Instrument Type	PNA RF vector network analyzer
Frequency Range	300 kHz to 6.0 GHz
Port Count	2
Receiver Architecture	4 receivers
Frequency Resolution	1 Hz
Cw Accuracy	plus or minus 1 ppm
Frequency Stability Typical	plus or minus 1 ppm from -10 C to 70 C
System Dynamic Range 300 Khz To 25 Mhz	125 dB at test port
System Dynamic Range 25 Mhz To 3 Ghz	128 dB at test port
System Dynamic Range 3 To 6 GHz	118 dB at test port
Receiver Dynamic Range 3 To 6 GHz	133 dB at receiver input
Receiver Dynamic Range 300 Khz To 25 Mhz	140 dB at receiver input
Receiver Dynamic Range 25 Mhz To 3 Ghz	143 dB at receiver input
Source Power Range 300 Khz To 6 Ghz Class	-85 to +10 dBm
Power Level Accuracy 300 Khz To 6 Ghz	plus or minus 1.0 dB variation from 0 dBm in power range 0
Power Level Linearity 300 Khz To 9 Ghz Minus 15 To Plus 5 Dbm	plus or minus 0.3 dB
Power Level Resolution	0.01 dB
Power Sweep Range 300 Khz To 6 Ghz Class	25 dB
Trace Noise Class At 35 Khz Ifbw	about 0.004 dB rms class literature
Measurement Speed Class	about 35 us per point at widest IFBW class
Harmonics At Max Output Characteristic	less than -25 dBc

PARAMETER	VALUE
Interfaces	LAN USB GPIB class PNA
Calibration Class	full two-port TRL TRM and ECal family
Card Geometry	benchtop PNA RF analyzer

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	E8357A
Instrument Type	PNA RF vector network analyzer
Frequency Range	300 kHz to 6.0 GHz
Port Count	2
Receiver Architecture	4 receivers
Frequency Resolution	1 Hz
Cw Accuracy	plus or minus 1 ppm
Frequency Stability Typical	plus or minus 1 ppm from -10 C to 70 C

System Dynamic Range 300 Khz To 25 Mhz: 125 dB at test port
System Dynamic Range 25 Mhz To 3 Ghz: 128 dB at test port
System Dynamic Range 3 To 6 GHz: 118 dB at test port
Receiver Dynamic Range 3 To 6 GHz: 133 dB at receiver input
Receiver Dynamic Range 300 Khz To 25 Mhz: 140 dB at receiver input
Receiver Dynamic Range 25 Mhz To 3 Ghz: 143 dB at receiver input
Source Power Range 300 Khz To 6 Ghz Class: -85 to +10 dBm
Power Level Accuracy 300 Khz To 6 Ghz: plus or minus 1.0 dB variation from 0 dBm in power range 0
Power Level Linearity 300 Khz To 9 Ghz Minus 15 To Plus 5 Dbm: plus or minus 0.3 dB
Power Level Resolution: 0.01 dB
Power Sweep Range 300 Khz To 6 Ghz Class: 25 dB

Specifications

PARAMETER	VALUE
Trace Noise Class At 35 Khz Ifbw	about 0.004 dB rms class literature
Measurement Speed Class	about 35 us per point at widest IFBW class
Harmonics At Max Output Characteristic	less than -25 dBc
Interfaces	LAN USB GPIB class PNA
Calibration Class	full two-port TRL TRM and ECal family
Card Geometry	benchtop PNA RF analyzer

Notes

From Agilent PNA Series RF Network Analyzers E8356/7/8A data sheet. Spurious residuals may limit dynamic range to about 100 dB at particular frequencies below 750 MHz.

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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NIST-traceable calibration · SAM registered ·
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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.