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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 346B

The Agilent / HP 346B is a broadband noise source for noise-figure measurements with HP/Agilent noise figure analyzers and meters. OEM 346B datasheet rates Excess Noise Ratio (ENR) performance across microwave bands with Type N or APC-7 output and 28 V noise source drive. Noise figure and gain measurement of amplifiers, mixers, and receivers when paired with an HP/Agilent noise figure meter or analyzer. Frequency Coverage Class: microwave broadband Storage Temperature Class: minus 40 C to 75 C Storage Temperature Class: minus 40 C to 75 C On Off Control: noise source gate via meter Compatibility: HP 8970 8971 NFA family class Identity from Agilent/HP 346B Noise Source catalog. Exact ENR versus frequency table is on the 346B calibration report shipped with the head.



MODEL

**Agilent / Keysight
346B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

346B

LISTING

<https://aumictechlabs.com/products/346b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 346B is a broadband noise source engineered for precision noise figure measurements spanning 10 MHz to 18 GHz. It delivers stable, repeatable noise power output with a nominal Excess Noise Ratio (ENR) of 15 dB, making it essential for characterizing RF amplifiers, receivers, and related components across multiple frequency bands. The unit combines high ENR performance with low SWR across its operating range, minimizing measurement uncertainties from signal reflections and reducing the need for multiple noise sources. Technical Specifications Electrical Performance Frequency range: 10 MHz to 18 GHz Nominal ENR: 15 dB (14 to 16 dB limits)

Noise figure measurement range: Up to 30 dB Maximum SWR: 1.30:1 (10–30 MHz); 1.15:1 (30–5000 MHz); 1.25:1 (5–18 GHz) Power requirement: 28 ±1 Vdc Input impedance: 50 Ω Connectors Standard: APC 3.5 mm (male) Bias input: BNC (female) Optional: Type-N (male), APC-7, Type-N (female) Physical Dimensions 140 mm (H) × 21 mm (W) × 30 mm (D) Weight: 0.108 kg netKey Features Broadband coverage eliminates frequency-band-specific noise sources Controlled SWR across three distinct frequency bands reduces reflection-induced measurement error Compact form factor integrates readily into test racks and automated systems Multiple connector options accommodate diverse RF architecturesOptional Configurations Option H01 delivers 21 dB typical ENR for high noise figure device measurement. Option H42 targets DBS low noise block converter testing with WR75 waveguide output, 5 dB ENR, and optimized calibration uncertainty.Compatibility & Integration The 346B integrates with Keysight noise figure meters and measurement systems including NFA, ESA-E Series, PNA-X, PSA-Series, and X-Series instruments (PXA, MXA, EXA, CXA).

Features & description

From manufacturer datasheet

Polarization: coaxial TEM

Cooling: ambient Related Models: 346A 346C family Notes Identity from Agilent/HP 346B Noise Source catalog. Exact ENR versus frequency table is on the 346B calibration report shipped with the head.

346B Characteristics / Specifications

PARAMETER	VALUE
Model	346B
Instrument Type	noise source
Manufacturer	HP Agilent Keysight
Drive Voltage	28 V class
Output Connector Class	TypeNor APC-7
Frequency Coverage Class	microwave broadband
Enr Calibration	factory ENR table
Form Factor	coaxial noise head
Operating Temperature Class	0 C to 55 C
Storage Temperature Class	minus 40 C to 75 C
Humidity Class	non condensing
VSWR Class	low VSWR noise head
On Off Control	noise source gate via meter
Compatibility	HP 8970 8971 NFA family class
Mass Class	handheld noise head
Cable	drive interconnect to meter
Duty	intermittent or continuous NF test
Grounding	RF ground through connector
Calibration Cycle	periodic ENR cal
Safety	RF and bias safety
Mounting	inline with DUT
Polarization	coaxial TEM
Cooling	ambient
Related Models	346A 346C family
Storage temperature	Class: minus 40 C to 75 C

PARAMETER

VALUE

Operating temperature

Class: 0 C to 55 C

Humidity

Class: non condensing

346B Specifications

PARAMETER	VALUE
Agilent HP 346B Noise Source	Overview
Key Features	Broadband microwave noise source
Coaxial RF output	28 V drive compatible
Technical Specifications	Model: 346B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 75 C
Operating temperature	Class: 0 C to 55 C
Operating Temperature	Class: 0 C to 55 C
Humidity	Class: non condensing
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Cooling	ambient
Related Models	346A 346C family Notes Identity from Agilent/HP 346B Noise Source catalog. Exact ENR versus frequency table is on the 346B calibration report shipped with the head.

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 across microwave bands with TypeNor APC-7 output and 28 V noise source drive.

Applications

Noise figure and gain measurement of amplifiers mixers and receivers when paired with an HP/Agilent noise figure meter or analyzer.

Key Features

Broadband microwave noise source

Compatible with HP noise figure meters

ENR calibrated across band

Coaxial RF output

28 V drive compatible

Technical Specifications

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PARAMETER	VALUE
Mounting	inline with DUT
Polarization	coaxial TEM
Cooling	ambient
Related Models	346A 346C family

Notes
Identity from Agilent/HP 346B Noise Source catalog. Exact ENR versus frequency table is on the 346B calibration report shipped with the head.

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.