


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 6, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 346C

Keysight (Agilent) 346C Noise Source, 10 MHz to 26.5 GHz The Keysight/Agilent 346C isabroadband avalanche-diode noise source covering 10 MHz to 26.5 GHz with ENR typically 12–17 dB. Low SWR (<1.35:1) reduces reflection-related NF uncertainty. 3.5 mm (m) RF output; BNC (f) +28 V bias. Individually calibrated ENR at specific frequencies; calibration data suitable for NFA loading. Option K01 (346CK01) extends to 50 GHz with 2.4 mm. Noise-figure measurements with Keysight NFA/X-Series/PNA-X and related analyzers; broadband NF source replacing multiple banded sources. The Keysight/Agilent 346C isabroadband avalanche-diode noise source covering 10 MHz to 26.5 GHz with ENR typically 12–17 dB. Low SWR (<1.35:1) reduces reflection-related NF uncertainty. 3.5 mm (m) RF output; BNC (f) +28 V bias. Individually calibrated ENR at specific frequencies; calibration data suitable for NFA loading. Option K01 (346CK01) extends to 50 GHz with 2.4 mm. Noise-figure measurements with Keysight NFA/X-Series/PNA-X and related analyzers; broadband NF source replacing multiple banded sources.



MODEL

**Keysight / Agilent
346C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

346C

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 346C is a broadband noise source engineered for precise noise figure measurements across RF and microwave frequencies. It delivers stable, calibrated noise signals essential for characterizing amplifiers, receivers, and RF circuits with minimal measurement

uncertainty. Individual ENR calibration data supplied on floppy disk enables direct integration with Keysight noise figure analyzers and spectrum measurement platforms.

Technical Specifications
Frequency Range: 10 MHz to 26.5 GHz Excess Noise Ratio (ENR): 15 dB nominal – 10 MHz to 12 GHz: 16 dB ENR (12 to 16 dB limits) – 12 GHz to 26.5 GHz: 17 dB ENR (14 to 17 dB limits) VSWR: <1.35:1 Characteristic Impedance: 50 Ω RF Output Connector: 3.5 mm (male) Power Supply: 28 V DC, 45 mA typical (source ON) Maximum Reverse Power: 1 W Operating Temperature Range: 0°C to 55°C Physical Dimensions: 140 mm (H) $\times$ 21 mm (W) $\times$ 30 mm (D) Shipping Weight: 2 lb

Key Features
Low VSWR (<1.35:1) minimizes signal reflections and measurement uncertainty
Individually calibrated ENR values at specific frequencies
Dual-level ENR performance optimized across 10 MHz to 26.5 GHz coverage
BNC input bias connector for external power control
Produces active noise output when 28 V DC is applied; residual thermal noise present when powered down
Compact form factor enables laboratory and field deployment

Typical Applications
Noise figure measurement of low-noise amplifiers (LNAs)
Receiver sensitivity characterization
RF component validation and design verification
System-level noise performance assessment

Compatibility & Integration
The 346C integrates with Keysight's NFA Series Noise Figure Analyzers, ESA-E, PNA-X, PSA-Series, and X-Series instruments (PXA, MXA, EXA, CXA). Optional configurations include the K01 (1 GHz to 50 GHz, 2.4 mm connector), K40 (40 GHz, 2.4 mm, 6 dB attenuator), and H01 (21 dB ENR, APC 3.5 mm connector).

Features & description

From manufacturer datasheet

Features

- Frequency: 10 MHz to 26.5 GHz • ENR range: 12 to 17 dB • VSWR: <1.35:1 • Connectors: 3.5 mm (m) RF; BNC (f) bias (+28 V) • Impedance: 50 Ω nominal • Operating temperature: 0 °C to 55 °C • Nominal ENR ~15 dB class with 27–29 V supply • Related: 346A (~5 dB ENR to 18 GHz), 346B (~15 dB to 18 GHz), 346CK01 (1–50 GHz)

346C Characteristics / Specifications

PARAMETER	VALUE
Model	346C
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Noise Source
Family	346 Series
Alias	346C; Agilent 346C; HP 346C RF / ENR 10 MHz–26.5 GHz; ENR 12–17 dB; VSWR <1.35:1 Operational Notes Prefer Keysight 346A/B/C operating manual 9018-01420. Use unit ENR cal table.
Frequency	10 MHz to 26.5 GHz
ENR range	12 to 17 dB
VSWR	<1.35:1
Connectors	3.5 mm (m) RF; BNC (f) bias (+28 V)
Impedance	50 Ω nominal
Operating temperature	0 °C to 55 °C
Related	346A (~5 dB ENR to 18 GHz), 346B (~15 dB to 18 GHz), 346CK01 (1–50 GHz)

346C Specifications

PARAMETER	VALUE
Applications	Noise-figure measurements with Keysight NFA/X-Series/PNA-X and related analyzers; broadband NF source replacing multiple banded sources.
Key Features	- Frequency: 10 MHz to 26.5 GHz
Technical Specifications	Model: 346C
RF / ENR	10 MHz–26.5 GHz; ENR 12–17 dB; VSWR <1.35:1
Operational Notes	Prefer Keysight 346A/B/C operating manual 9018-01420. Use unit ENR cal table.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 °C to 55 °C - Nominal ENR ~15 dB class with 27–29 V supply - Related: 346A (~5 dB ENR to 18 GHz), 346B (~15 dB to 18 GHz), 346CK01 (1–50 GHz)
Operating Temperature	0 °C to 55 °C - Nominal ENR ~15 dB class with 27–29 V supply - Related: 346A (~5 dB ENR to 18 GHz), 346B (~15 dB to 18 GHz), 346CK01 (1–50 GHz)
Model	346C
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Noise Source
Family	346 Series
Alias	346C; Agilent 346C; HP 346C RF / ENR 10 MHz–26.5 GHz; ENR 12–17 dB; VSWR <1.35:1 Operational Notes Prefer Keysight 346A/B/C operating manual 9018-01420. Use unit ENR cal table.

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	346C
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Noise Source
Family	346 Series
Alias	346C; Agilent 346C; HP 346C

RF / ENR

10 MHz–26.5 GHz; ENR 12–17 dB; VSWR <1.35:1

Operational Notes

Prefer Keysight 346A/B/C operating manual 9018-01420. Use unit ENR cal table.

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 6, 2026

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