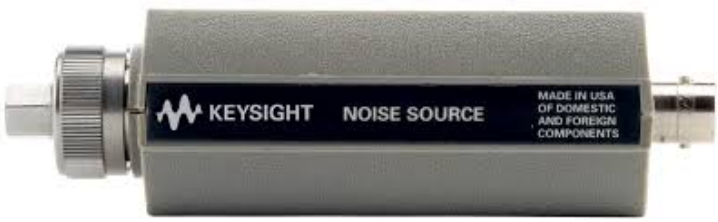
Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 6, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 346CK01 1GHz – 50GHz, Noise Source

Keysight (Agilent) 346CK01 1GHz – 50GHz, Noise Source The Keysight 346CK01 is the Option K01 / 346CK01 coaxial noise source extending the 346C family to 1 GHz–50 GHz with a 2.4 mm (male) RF connector. Designed asabroadband companion for Keysight noise-figure solutions (NFA, X-Series, PNA-X, ESA-E, PSA). Eliminates multiple banded sources for mmWave NF work. Individually calibrated ENR; +28 V bias via BNC (f). Noise-figure calibration and measurement to 50 GHz; broadband NF with spectrum/NF analyzers. The Keysight 346CK01 is the Option K01 / 346CK01 coaxial noise source extending the 346C family to 1 GHz–50 GHz with a 2.4 mm (male) RF connector. Designed asabroadband companion for Keysight noise-figure solutions (NFA, X-Series, PNA-X, ESA-E, PSA). Eliminates multiple banded sources for mmWave NF work. Individually calibrated ENR; +28 V bias via BNC (f). Noise-figure calibration and measurement to 50 GHz; broadband NF with spectrum/NF analyzers.



MODEL Keysight / Agilent 346CK01	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 346CK01	LISTING https://aumictechlabs.com/products/346ck01-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) 346CK01 is a precision noise source engineered to deliver calibrated, stable noise output across the 1 GHz to 50 GHz frequency range. Purpose-built for noise figure

measurements, it characterizes the performance of high-frequency components including receivers, amplifiers, and RF/microwave subsystems. The instrument maintains consistent output suitable for research and development, manufacturing, and quality control environments where measurement repeatability is critical.Technical Specifications Frequency Range: 1 GHz to 50 GHz Output Impedance: 50 Ohms nominal Excess Noise Ratio (ENR): Calibrated output, values detailed in product datasheet Power Input: DC source (specifications provided in product documentation) RF Output Connector: Type-N (f) or equivalent high-frequency connector Warm-up Time: Specified in product manualKey Features Calibrated noise generation across full 1–50 GHz operating band 50 Ohm nominal impedance matching for direct integration into test systems Designed to facilitate high-accuracy noise figure characterization Stable performance under repeated measurement cyclesTypical Applications Receiver noise figure measurement (cellular base stations, radar, satellite systems) Low-noise amplifier (LNA) and component validation Mixer, filter, and RF subsystem performance verification RF/microwave system design validation Production test and quality control of high-frequency modulesCompatibility & Integration The 346CK01 integrates with network analyzers, spectrum analyzers, and dedicated noise figure test sets that accept external noise sources. Operation may be automated through compatible test controllers or measurement software providing power and control signals.

Features & description

From manufacturer datasheet

Features

• Frequency: 1 GHz to 50 GHz • Connector: 2.4 mm (m) RF; BNC (f) bias • ENR: nominally high (~20–21 dB class near low end), decreasing toward ~7 dB class at 50 GHz (confirm cal label) • Low SWR design to reduce NF uncertainty • Works with: NFA, ESA-E, PNA-X, PSA, X-Series (PXA/MXA/EXA/CXA) • Drive: +28 V pulse/bias from NF analyzer noise-source supply

346CK01 Characteristics / Specifications

PARAMETER	VALUE
Keysight (Agilent) 346CK01 1GHz	50GHz, Noise Source Overview The Keysight 346CK01 is the Option K01 / 346CK01 coaxial noise source extending the 346C family to 1 GHz–50 GHz with a 2.4 mm (male) RF connector. Designed asabroadband companion for Keysight noise-figure solutions (NFA, X-Series, PNA-X, ESA-E, PSA). Eliminates multiple banded sources for mmWave NF work. Individually calibrated ENR; +28 V bias via BNC (f).
Model	346CK01
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Noise Source
Family	346 Series (K01 / 50 GHz)
Alias	346CK01; 346C Option K01 RF
Frequency	1–50 GHz; 2.4 mm male; ENR per calibration certificate Operational Notes Prefer Keysight 346C product page / 346 series manual. Use ENR table from the unit calibration disk/certificate.
Connector	2.4 mm (m) RF; BNC (f) bias
ENR	nominally high (~20–21 dB class near low end), decreasing toward ~7 dB class at 50 GHz (confirm cal label)
Works with	NFA, ESA-E, PNA-X, PSA, X-Series (PXA/MXA/EXA/CXA)
Drive	+28 V pulse/bias from NF analyzer noise-source supply

346CK01 Specifications

PARAMETER	VALUE
Applications	Noise-figure calibration and measurement to 50 GHz; broadband NF with spectrum/NF analyzers.
Key Features	- Frequency: 1 GHz to 50 GHz
Technical Specifications	Model: 346CK01
Operational Notes	Prefer Keysight 346C product page / 346 series manual. Use ENR table from the unit calibration disk/certificate.

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	346CK01
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Noise Source
Family	346 Series (K01 / 50 GHz)
Alias	346CK01; 346C Option K01

RF
Frequency: 1–50 GHz; 2.4 mm male; ENR per calibration certificate

Operational Notes
Prefer Keysight 346C product page / 346 series manual. Use ENR table from the unit calibration disk/certificate.

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