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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 346CK40

HP Agilent Keysight 346CK40 Waveguide Adapter for 346C Noise Source 26.5 to 40 GHz The Keysight 346CK40 is a waveguide adapter that extends the 346C noise source into WR-28 (26.5 to 40 GHz). OEM 346A/B/C noise-source accessory tables list 346CK40 as the R-band / WR-28 adapter for 346C (10 MHz-26.5 GHz, APC-3.5) so ENR measurements can be made in waveguide from 26.5 to 40 GHz. Noise-figure measurements in WR-28 waveguide using a 346C SNS/346-series noise source. Instrument Type: Waveguide adapter for 346C noise source The Keysight 346CK40 is a waveguide adapter that extends the 346C noise source into WR-28 (26.5 to 40 GHz). OEM 346A/B/C noise-source accessory tables list 346CK40 as the R-band / WR-28 adapter for 346C (10 MHz-26.5 GHz, APC-3.5) so ENR measurements can be made in waveguide from 26.5 to 40 GHz. Noise-figure measurements in WR-28 waveguide using a 346C SNS/346-series noise source. Instrument Type: Waveguide adapter for 346C noise source Host 346c Frequency: 10 MHz to 26.5 GHz coaxial



MODEL

**Agilent / Keysight
346CK40**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

346CK40

LISTING

<https://aumictechlabs.com/products/346ck40-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 346CK40 is a broadband coaxial noise source engineered for precision noise figure measurements across RF and microwave frequencies. Operating from 1 GHz to 40 GHz with usable extension to 50 GHz, it delivers controlled noise performance with calibration data across

the entire frequency band at 1 GHz intervals. The unit combines low VSWR design with a 6 dB output attenuator to minimize measurement uncertainty and signal reflections, making it ideal for metrology labs, research facilities, and high-frequency manufacturing environments requiring stringent calibration accuracy.

Technical Specifications

Frequency Range: 1 GHz to 40 GHz operating; usable to 50 GHz
Excess Noise Ratio (ENR): Typically 14 dB at 1 GHz, decreasing to approximately 5 dB at 40 GHz; nominal 3 dB to 7 dB between 37–40 GHz; nominal –0.5 dB at 50 GHz
Output Attenuator: 6 dB included on output connector
RF Output Connector: 2.4 mm (m)
Input Bias Connector: BNC (f)
Reflection Coefficient Match: Differential between 'on' and 'off' states no greater than 0.01 (typical specification)
Operating Temperature Range: –10°C to 50°C
Power Supply: 110–240 VAC, 50/60 Hz
Calibration Data: Provided on USB flash device and printed documentation from 1 GHz to 50 GHz at 1 GHz steps

Key Features

- Low VSWR minimizes reflections and reduces measurement uncertainty
- Improved source impedance matching compared to baseline models
- Broadband operation eliminates need for multiple noise sources across frequency bands
- Compact, lightweight design for portability
- 6 dB output attenuator for controlled noise injection

Typical Applications

- Noise figure calibration and verification
- RF and microwave test equipment calibration
- High-frequency metrology measurements
- Advanced research and development

Compatibility & Integration

The 346CK40 is engineered as a companion instrument to Keysight noise figure measurement solutions for applications spanning DC to millimeter-wave frequencies.

346CK40 Characteristics / Specifications

PARAMETER	VALUE
Model	346CK40
Instrument Type	Waveguide adapter for 346C noise source
Waveguide	WR-28
Frequency Range	26.5 GHz to 40 GHz
Host Noise Source	346C
Host 346c Frequency	10 MHz to 26.5 GHz coaxial
Host 346c Connector	APC-3.5
Related Noise Sources	346A 346B 346C
Related Sns	N4000A N4001A N4002A
Use Case	WR-28 noise figure
Manufacturer	HP Agilent Keysight
Form Factor	coax to waveguide adapter
Literature	346C accessory table 346CK40
Operating Temperature Class	346C noise source rating
Enr	uses 346C ENR data with adapter characterization
Noise Figure Meter	8970B NFA N897x
Band	R band / WR-28
Flange	WR-28 waveguide flange
Coax Side	mates 346C APC-3.5
Calibration	adapter with 346C ENR report
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Operating temperature	Class: 346C noise source rating

346CK40 Specifications

PARAMETER	VALUE
Applications	Noise-figure measurements in WR-28 waveguide using a 346C SNS/346-series noise source.
Key Features	WR-28 waveguide on 346C
Technical Specifications	Model: 346CK40

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 346C noise source rating
Operating Temperature	Class: 346C noise source rating
Operating Temperature Class	346C noise source rating
Enr	uses 346C ENR data with adapter characterization
Noise Figure Meter	8970B NFA N897x
Band	R band / WR-28
Flange	WR-28 waveguide flange
Coax Side	mates 346C APC-3.5
Calibration	adapter with 346C ENR report
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications Notes Identity, WR-28, and 26.5 to 40 GHz coverage from Keysight/HP 346C noise-source accessory tables listing 346CK40. ENR values remain those of the 346C plus adapter characterization on the calibration report.

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	
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PARAMETER	VALUE
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Waveguide	WR-28
Frequency Range	26.5 GHz to 40 GHz
Host Noise Source	346C
Host 346c Frequency	10 MHz to 26.5 GHz coaxial
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Use Case	WR-28 noise figure
Manufacturer	HP Agilent Keysight
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Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Notes	
Identity, WR-28, and 26.5 to 40 GHz coverage from Keysight/HP 346C noise-source accessory tables listing 346CK40. ENR values remain those of the 346C plus adapter characterization on the calibration report.	

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
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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.