

KEYSIGHT TECHNOLOGIES (AGILENT HP)

346B

The Keysight / Agilent 346B is a highly accurate, broadband RF noise source covering the 10 MHz to 18 GHz frequency range. It features a nominal Excess Noise Ratio (ENR) of 15 dB and provides ultra-low SWR to significantly minimize test signal reflections and measurement uncertainty. Designed as an ideal companion to noise figure analyzers, the 346B includes individually calibrated ENR values and standard 3.5 mm (m) output connectors, with options for specific high ENR applications and various connector types.

SPECIFICATIONS

Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	21 × 30 × 140 mm mm
Weight	0.108 kg kg
Shipping Weight	0.5 kg

General Specifications

Frequency Range	10 MHz - 18 GHz
Nominal Impedance	50 Ω

Excess Noise Ratio (ENR) Specifications

Nominal ENR	15.2 dB
ENR Temperature Coefficient	< 0.009 dB/°C
ENR Voltage Coefficient	< 0.002 dB/%ΔV

VSWR & Reflection Specifications

Maximum VSWR (Source ON/OFF)	1.30:1 (10 - 30 MHz); 1.15:1 (30 MHz - 5 GHz); 1.25:1 (5 - 18 GHz)
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Power & Drive Requirements

Drive Voltage	28.0 Vdc ± 1 V
Drive Current (Maximum)	60 mA peak

Connectors & Interfaces

RF Output Connector	3.5 mm (m) standard
Drive Input Connector	BNC (f)

Options & Configurations

Option 001	Type-N (m) RF Output Connector
Option 002	APC-7 RF Output Connector
Option 004	Type-N (f) RF Output Connector
Option H42	Designed for measuring Direct Broadcast Satellite (DBS) LNB converters

Environmental

Storage Temperature	-55 °C to +75 °C
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Calibration Uncertainties

Calibration Uncertainty (10 MHz to 1.5 GHz)	±0.15 dB (RSS)
Calibration Uncertainty (1.5 GHz to 3.0 GHz)	±0.17 dB (RSS)
Calibration Uncertainty (3.0 GHz to 7.0 GHz)	±0.19 dB (RSS)
Calibration Uncertainty (7.0 GHz to 18.0 GHz)	±0.25 dB (RSS)

TECHNOLOGY

Avalanche Diode Noise Source

APPLICATIONS

Noise Figure Measurements, RF & Microwave Calibration

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.