

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8644B

The Keysight (Agilent/HP) 8644B is a high-performance synthesized RF signal generator designed for applications requiring exceptional spectral purity. Available in 1 GHz and 2 GHz models, it features very low single-sideband (SSB) phase noise and non-harmonic spurious performance, making it highly suited for stringent receiver testing and automated spurious rejection testing. It also incorporates a solid-state electronic attenuator for highly reliable, repeatable level setting without the use of mechanical relays.

SPECIFICATIONS

Frequency

Minimum Frequency	252 kHz Hz
Maximum Frequency	1030 MHz (2060 MHz with option 002) Hz
Frequency Resolution	0.01 Hz

Output

Maximum Output Power	+16 dBm dBm
Output Power Range	+16 dBm to -137 dBm
Phase Noise	-136 dBc/Hz at 20 kHz offset, 1 GHz carrier

Modulation

Modulation	AM, FM, Phase, Pulse
Amplitude Modulation Depth	0 to 100%

General

Interfaces	HP-IB (IEEE-488)
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Physical

Weight	30 kg kg
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Frequency Characteristics

Frequency Range	252 kHz to 1030 MHz (Standard); 252 kHz to 2060 MHz (Option 002)
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Amplitude and Output Power Characteristics

Level Accuracy	±1.0 dB down to -127 dBm
Amplitude Resolution	0.1 dB

Environmental

Operating Temperature	0 °C to 55 °C
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Protection

Reverse Power Protection	50 W max (from 50 Ω source)
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Outputs

Output Impedance	50 Ω
RF Output Connector	Type N (female)

TECHNOLOGY

RF / Microwave

APPLICATIONS

Signal Generation

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