

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8664A

The Keysight (formerly Agilent/HP) 8664A is a high-performance synthesized RF signal generator designed for stringent receiver testing up to 3.0 GHz. It offers excellent spectral purity, making it ideal for out-of-channel receiver testing and as a low-jitter clock source, particularly when equipped with the low-noise enhancement option. It features standard AM and FM modulation with wide bandwidths, and supports radar testing applications with its optional internal pulse modulation.

SPECIFICATIONS

Frequency

Minimum Frequency	100 kHz Hz
Maximum Frequency	3 GHz Hz
Frequency Resolution	0.01 Hz

Output

Phase Noise	<-140 dBc/Hz (typical @ 20 kHz offset, 1 GHz carrier, with Option 004)
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Modulation

Modulation	AM, FM, Pulse (with Option 008)
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General

Reference Oscillator	10 MHz
Interfaces	HP-IB (IEEE-488)

Spectral Purity

Non-harmonics (Spurious)	<-100 dBc (to 2 GHz)
Harmonics	< -30 dBc

Frequency Modulation (FM)

FM Rate	Up to 2 MHz
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Pulse Modulation

Pulse Width	50 ns to 999 ms (internally adjustable, with Option 008)
Pulse Delay	50 ns to 999 ms (internally adjustable, with Option 008)

Options and Configurations

Enhanced Phase Noise Option	Option 004
Pulse Modulation Option	Option 008

Amplitude

Amplitude Resolution	0.1 dB
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Amplitude Modulation

AM Rate	DC to 100 kHz
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RF Output

Output Impedance	50 Ω
RF Output Connector	Type-N female

Environmental

Operating Temperature	0 °C to +55 °C
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TECHNOLOGY

Synthesized RF Signal Generator

APPLICATIONS

Receiver testing, out-of-channel receiver testing, low-jitter clock source, radar testing, high-speed digital communications

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