

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8564E

The Agilent / HP 8564E is a portable, rugged millimeter-wave spectrum analyzer providing measurement capability from 30 Hz to 40 GHz with a single coaxial connection. It combines outstanding phase noise, 1 Hz resolution bandwidths, wide dynamic range, and a precision timebase in a MIL-T-28800 compliant package, offering comprehensive solutions for digital modulation burst signals and adjacent-channel power (ACP) testing.

SPECIFICATIONS

General

Interfaces	GPIO (IEEE-488)
Warm-up Time	5 minutes (typical accuracy)

Physical

Power Supply	115 VAC (47-440 Hz) or 230 VAC (47-66 Hz)
Operating Temperature	-10 °C to +55 °C °C

Frequency Specifications

Preselected Frequency Range	2.75 GHz to 40 GHz
Resolution Bandwidth (RBW) Range	1 Hz to 2 MHz
Fast Digital Resolution Bandwidths	1, 3, 10, 30, and 100 Hz
Video Bandwidth (VBW) Range	1 Hz to 3 MHz
Counter Resolution	1 Hz
Phase Noise (SSB) at 10 kHz Offset	-113 dBc/Hz (at 1 GHz center frequency)

Amplitude Specifications

Maximum Safe Input Level (Continuous Wave)	+30 dBm (1 W)
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Display and Processing

Measurement Applications (Standard)	Adjacent channel power (ACP), channel power, carrier power, occupied bandwidth percentage, time-gated spectrum analysis
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Inputs and Outputs

RF Input Connector Type	2.4 mm (male)
RF Input Impedance	50 Ω

Environmental and Compliance

Ruggedness Compliance	MIL-T-28800
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Frequency

Reference Oscillator Frequency	10 MHz
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Amplitude

Calibration Signal Frequency	300 MHz
Calibration Signal Amplitude	-10 dBm
Display Scale Modes	Logarithmic (1 to 15 dB/div) and Linear

Features

Audio Demodulation	AM, FM
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Sweep & Triggering

Sweep Time (Span > 0 Hz)	50 ms to 100 s
Sweep Time (Zero Span)	50 μs to 100 s
Trigger Sources	Free run, line, video, external

TECHNOLOGY

Superheterodyne Spectrum Analysis

APPLICATIONS

Millimeter-wave measurement, digital radio testing, phase noise measurement, adjacent-channel power (ACP) analysis

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