

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8562EC

The Keysight (Agilent/HP) 8562EC is a high-performance, portable microwave spectrum analyzer designed for demanding R&D and manufacturing environments, specifically optimized for high-speed digital wireless communication applications such as GSM spur testing. Operating over a range of 30 Hz to 13.2 GHz, it features an active-matrix color LCD display, fast digital resolution bandwidths, and rugged MIL-PRF-28800 Class 3 construction.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488)
Display	Color active-matrix LCD
Audio Demodulation	AM and FM (with internal speaker and front-panel headphone jack)

Physical

Operating Temperature	0 to +55 °C °C
Dimensions (W×H×D)	337 mm × 187 mm × 461 mm mm
Weight	16.5 kg kg

Frequency Specifications

Frequency Range	30 Hz to 13.2 GHz
Frequency Span Range	0 Hz, 100 Hz to 13.2 GHz
Reference Aging Rate (Per Year)	$\pm 1 \times 10^{-7}$
Reference Temperature Stability	$\pm 1 \times 10^{-8}$
SSB Phase Noise (at 10 kHz Offset)	≤ -113 dBc/Hz (at 1 GHz carrier)
SSB Phase Noise (at 100 kHz Offset)	≤ -117 dBc/Hz (at 1 GHz carrier)

Bandwidth Specifications

Resolution Bandwidth (RBW) Range	1 Hz to 2 MHz
Resolution Bandwidth (RBW) Steps	1, 3, 10 sequence
Video Bandwidth (VBW) Range	1 Hz to 3 MHz
RBW Selectivity (60 dB / 3 dB Shape Factor)	< 15:1 (analog RBW 300 Hz to 2 MHz), < 5:1 (digital RBW 1 Hz to 100 Hz)

Amplitude & Sensitivity

Maximum Safe Continuous RF Input Power	+30 dBm (1 W)
Maximum DC Input Voltage	0 V (DC coupled)
Input Attenuator Range	0 to 70 dB
Input Attenuator Steps	10 dB
1 dB Gain Compression Point	-5 dBm (10 MHz to 2.9 GHz at input mixer)

Amplitude Accuracy

Frequency Response (Flatness) (30 Hz to 2.9 GHz)	±1.0 dB
Absolute Amplitude Calibration Accuracy	±0.3 dB (at 300 MHz)
Resolution Bandwidth Switching Uncertainty	±0.5 dB

Sweep & Trigger

Sweep Time Range (Span > 0 Hz)	50 ms to 100 s
Sweep Time Range (Zero Span)	50 µs to 6000 s
Sweep Trigger Sources	Free run, Line, Single, Video, External
Gated Sweep Capability	Built-in

Inputs & Outputs (Ports)

RF Input Connector Type	Type-N female
RF Input Impedance	50 ohms nominal
Calibrator Output	300 MHz, -20 dBm
External Reference Input	10 MHz
First LO Output Level / Connector	SMA female, +16.5 dBm ±2.0 dB

Measurement & Display Features

Number of Displayed Traces	3
Trace Detector Modes	Peak, Sample, Negative Peak, Normal (Rosenfell)

Power & Environmental

Storage Temperature Range	-40 °C to +75 °C
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Input Characteristics

Input SWR (30 Hz to 2.9 GHz)	< 1.5 (with ≥ 10 dB attenuation)
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Performance

Video Bandwidth (VBW) Steps	1-3-10 sequence
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Inputs & Outputs

Blanking/Gate Output	BNC female, TTL level
Sweep Output	BNC female, 0 to +10 V ramp

TECHNOLOGY

RF & Microwave Spectrum Analysis

APPLICATIONS

RF & Microwave Testing, GSM Spur Search, Wireless R&D, Manufacturing Test

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