

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8595E

The Keysight (formerly Agilent / HP) 8595E is a versatile, portable RF spectrum analyzer that operates across a frequency range of 9 kHz to 6.5 GHz. Part of the 8590 E-Series, it is designed for ease of use with one-button measurement routines and highly adaptable hardware. It features a split-screen display and a four-slot cardcage that accommodates optional plug-in measurement personalities and hardware interfaces, making it highly configurable for applications ranging from cable TV and broadcast to electromagnetic compatibility (EMC) and wireless communications.

SPECIFICATIONS

General

Interfaces	Dual interfaces (configuration/option dependent, e.g., GPIB, RS-232, Parallel)
Display	CRT (split screen capable)
Calibration Signal	300 MHz, -20 dBm (± 0.4 dB)
Internal Demodulation	AM, FM (audio output via internal speaker and headphone jack)

Physical

Power Supply	115 VAC (90-132 V, 47-440 Hz) or 230 VAC (195-250 V, 47-66 Hz), < 500 VA
Operating Temperature	0 to 55 °C
Dimensions (W×H×D)	325 × 163 × 427 mm
Weight	16.4 kg kg

Frequency Specifications

Frequency Range	9 kHz to 6.5 GHz
Resolution Bandwidth (RBW) Range	1 kHz to 3 MHz standard (30 Hz to 300 Hz available via Option 130)
Video Bandwidth (VBW) Range	30 Hz to 1 MHz
Frequency Reference Aging Rate	$< 2 \times 10^{-6}$ / year (standard); $< 1 \times 10^{-7}$ / year (Option 004)

Sweep and Trigger Specifications

Sweep Time (Span > 0 Hz)	20 ms to 100 s
Sweep Trigger Modes	Free Run, Single, Line, Video, External

Amplitude Specifications

Maximum Safe Input Level (Continuous Wave)	+30 dBm (1 W)
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Tracking Generator Options

Tracking Generator	Built-in (configuration dependent / optional)
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Inputs and Outputs

RF Input Connector	Type-N female
Input Impedance	50 Ω

Software and Measurement Features

Measurement Routines	One-button execution (configuration/personality dependent)
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Amplitude & Sensitivity

Displayed Average Noise Level (DANL)	≤ -115 dBm (10 MHz to 2.9 GHz), ≤ -112 dBm (2.75 to 6.5 GHz) @ 1 kHz RBW
Amplitude Range	DANL to +30 dBm
Input Attenuator	0 to 70 dB (10 dB steps)
Reference Level Resolution	0.01 dB (Log scale), 0.1% (Linear scale)
Amplitude Units	dBm, dBmV, dBμV, V, W

Spectral Purity

Phase Noise	< -105 dBc/Hz (30 kHz offset, f < 2.9 GHz)
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Sweep

Zero Span Sweep Time	20 μs to 100 s
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Environmental

Storage Temperature	-40 °C to +75 °C
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Power

Power Consumption	< 500 VA
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Measurement & Signal Processing

Trace Detectors	Normal, Positive Peak, Sample, Negative Peak
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TECHNOLOGY

Spectrum Analysis

APPLICATIONS

RF and Microwave Measurement, EMC Testing, Cable TV/Broadcast, Component Test, Wireless Communications

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