

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E8257C-540

The Keysight (Agilent) E8257C-540 is a high-performance analog signal generator from the PSG series, designed for precision RF and microwave test applications. Covering a frequency range from 250 kHz to 40 GHz, it provides excellent output power, superior level accuracy, low phase noise, and comprehensive analog modulation capabilities (AM, FM, Phase, and Pulse).

SPECIFICATIONS

Frequency

Minimum Frequency	250 kHz Hz
Maximum Frequency	40 GHz Hz
Frequency Resolution	0.01 Hz

Modulation

Modulation	AM, FM, Phase, Pulse
Sweep Modes	Step, List, Analog Ramp (Option 007)

General

Reference Oscillator	10 MHz
Interfaces	GPIO (IEEE-488.2), LAN (10BaseT), RS-232

Physical

Power Supply	100-240 VAC, 50/60 Hz; 100-120 VAC, 400 Hz
Dimensions (W×H×D)	426 × 178 × 515 mm mm
Weight	22 kg kg

Frequency Characteristics

Frequency Range	250 kHz to 40 GHz
Phase Offset	Adjustable in 0.1° nominal increments

Options and Configurations

Frequency Option	Option 540
Analog Ramp Sweep	Continuous sweep (Option 007)

Inputs / Outputs and Interfaces

RF Output Connector	2.4 mm (male)
---------------------	---------------

General Specifications

Network Analyzer Compatibility	Fully automated use with Agilent 8757D scalar network analyzer
--------------------------------	--

Environmental

Operating Temperature	0 to 55 °C
Storage Temperature	-40 to +70 °C

RF Output

Output Impedance	50 Ω (nominal)
------------------	----------------

Configuration & Options

Step Attenuator	Optional (Option 1E1)
High Output Power	Optional (Option 1EA)
Enhanced Phase Noise	Optional (Option UNJ)
Pulse Modulation	Optional (e.g., Option UNU)

Amplitude

Amplitude Resolution	0.01 dB
----------------------	---------

TECHNOLOGY

RF / Microwave

APPLICATIONS

Component Characterization, LO Substitution, Receiver Test, Radar Test

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