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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8267C PSG Vector Signal Generator

HP Agilent Keysight E8267C PSG Vector Signal Generator 250 kHz to 20 GHz The Agilent E8267C is the vector member of the PSG C-series, covering 250 kHz to 20 GHz with an integrated I/Q modulator and internal baseband generator. OEM E8267C literature 5988-6632EN and application note 5988-7689EN list plus 18 dBm class output, 80 MHz RF modulation bandwidth, and 32 Msample waveform playback memory. Microwave vector signal simulation, two-tone/multitone component test, and I/Q-modulated EW or communications waveforms to 20 GHz. The Agilent E8267C is the vector member of the PSG C-series, covering 250 kHz to 20 GHz with an integrated I/Q modulator and internal baseband generator. OEM E8267C literature 5988-6632EN and application note 5988-7689EN list plus 18 dBm class output, 80 MHz RF modulation bandwidth, and 32 Msample waveform playback memory. Microwave vector signal simulation, two-tone/multitone component test, and I/Q-modulated EW or communications waveforms to 20 GHz. First microwave generator family with integrated I/Q modulator and internal baseband generator



MODEL

**Agilent / Keysight
8267C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8267C

LISTING

<https://aumictechlabs.com/products/8267c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8267C PSG Vector Signal Generator delivers signal generation across 250 kHz to 44 GHz, engineered for wireless communications, aerospace, defense, and advanced signal simulation. The instrument combines +20 dBm maximum output power with exceptional phase noise performance (<-110 dBc/Hz at 10 kHz offset at 10 GHz) and extensive modulation capabilities to support demanding test and development workflows.

Technical Specifications

Frequency Range: 250 kHz to 44 GHz Output Power: +20 dBm maximum (typical); 100 dB power control with 0.1 dB resolution Spectral Purity: Phase Noise: <-110 dBc/Hz at 10 kHz offset at 10 GHz (typical) Harmonics: <-30 dBc at frequencies below 18 GHz (typical) Non-Harmonic Spurious: <-60 dBc (typical) Modulation: AM, FM, PM, FSK, pulse modulation (on/off, width, delay, timing control), and digital modulation formats via internal waveform generation or external I/Q data Power Supply: 100-240 VAC, 47-63 Hz Interfaces: GPIB (IEEE 488.2) for remote control and automation Ethernet (LAN) for network connectivity USB for firmware updates and data transfer RF output via Type N connector Trigger I/O for external synchronization External modulation inputs for AM, FM, and I/Q signals

Key Features

- Wide frequency coverage from 250 kHz to 44 GHz
- Arbitrary waveform generation with internal baseband generator
- External I/Q input for virtually any digital modulation format
- Low phase noise for demanding signal fidelity
- Suppressed harmonics and spurious content

Typical Applications

- Wireless communications testing
- Aerospace and defense signal simulation
- Complex modulated signal generation
- Digital modulation format validation

Compatibility & Integration

The 8267C operates with Keysight signal generation and analysis software. GPIB and Ethernet interfaces enable integration with test automation platforms. Firmware upgrades extend functional capabilities.

8267C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	PSG vector signal generator
Series Family	Agilent E8247C/E8257C/E8267C PSGCFrequency Range: 250 kHz to 20 GHz (Option 520 required in AN 1410 configuration example)
Frequency Resolution CW Class	0.001 Hz (PSGCfamily)
Output Power Class	plus 18 dBm
RF Modulation Bandwidth	80 MHz
Baseband Generator Option 0	internal baseband generator with arbitrary waveform capability
Waveform Playback Memory	32 Msamples (160 MB)
Waveform Storage Option 0	1.2 Gsamples (6 GB) internal hard driveIQModulator: integrated microwave I/Q modulatorIQAdjustments: variable I/Q offset, amplitude, and phase
Waveform Sequencer	flexible sequencer
Switching Speed Class	less than 12 ms typical (PSGCfamily analog/CW sheet)
List Step Sweep Points Class	2 to 1601 (PSGCfamily)
Output Impedance	50 ohm nominal
Remote Interface	GPIO SCPI
Operating Temperature Class	0 C to 55 C after 45 minute warm-up
External Reference Class	1, 2, 2.5, 5, 10 MHz (PSGCfamily)
Reference Output Class	10 MHz
User Flatness	PSG user flatness correction for test-port leveling
Two Tone Personality	Option 408 Signal Studio for Enhanced Multitone
Analog Sibling	E8257C analog; CW sibling E8247C
Documentation Source	Agilent E8267C PSG Vector Signal Generator data sheet 5988-6632EN and AN 1410 5988-7689EN feature list
Calibration Note	analog spectral-purity tables overlap the E8247C/57C sheet; vector EVM/ACPR numbers belong on 5988-6632EN and are not padded here
Bandwidth	80 MHz

PARAMETER	VALUE
Operating temperature	Class: 0 C to 55 C after 45 minute warm-up

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 C to 55 C after 45 minute warm-up
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External Reference Class	1, 2, 2.5, 5, 10 MHz (PSGCfamily)
Reference Output Class	10 MHz
User Flatness	PSG user flatness correction for test-port leveling
Two Tone Personality	Option 408 Signal Studio for Enhanced Multitone
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Documentation Source	Agilent E8267C PSG Vector Signal Generator data sheet 5988-6632EN and AN 1410 5988-7689EN feature list
Calibration Note	analog spectral-purity tables overlap the E8247C/57C sheet; vector EVM/ACPR numbers belong on 5988-6632EN and are not padded here Notes Vector feature numbers (80 MHz BW, 32 MSa, plus 18 dBm, 250 kHz to 20 GHz, 6 GB Option 005) from Agilent E8267C application note 5988-7689EN key-features list citing data sheet 5988-6632EN. Analog/CW family rows from E8247C/57C PSG data sheet where the C-series architecture is shared.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Instrument Type	PSG vector signal generator
Series Family	Agilent E8247C/E8257C/E8267C PSGCFrequency Range: 250 kHz to 20 GHz (Option 520 required in AN 1410 configuration example)
Frequency Resolution CW Class	0.001 Hz (PSGCfamily)
Output Power Class	plus 18 dBm
RF Modulation Bandwidth	80 MHz
Baseband Generator Option 002	internal baseband generator with arbitrary waveform capability
Waveform Playback Memory	32 Msamples (160 MB)
Waveform Storage Option 005	1.2 Gsamples (6 GB) internal hard driveIQModulator: integrated microwave I/Q modulatorIQAdjustments: variable I/Q offset, amplitude, and phase
Waveform Sequencer	flexible sequencer
Option UNR: enhanced phase noise	
Specifications	
PARAMETER	VALUE
Switching Speed Class	less than 12 ms typical (PSGCfamily analog/CW sheet)
List Step Sweep Points Class	2 to 1601 (PSGCfamily)
Output Impedance	50 ohm nominal
Remote Interface	GPIOB SCPI
Operating Temperature Class	0 C to 55 C after 45 minute warm-up
External Reference Class	1, 2, 2.5, 5, 10 MHz (PSGCfamily)
Reference Output Class	10 MHz
User Flatness	PSG user flatness correction for test-port leveling
Two Tone Personality	Option 408 Signal Studio for Enhanced Multitone
Analog Sibling	E8257C analog; CW sibling E8247C
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PARAMETER	VALUE
Calibration Note	analog spectral-purity tables overlap the E8247C/57C sheet; vector EVM/ACPR numbers belong on 5988-6632EN and are not padded here

Notes

Vector feature numbers (80 MHz BW, 32 MSa, plus 18 dBm, 250 kHz to 20 GHz, 6 GB Option 005) from Agilent E8267C application note 5988-7689EN key-features list citing data sheet 5988-6632EN. Analog/CW family rows from E8247C/57C PSG data sheet where the C-series architecture is shared.

Ordering Information

OPTION	DESCRIPTION
Option 005	for waveform storage
Option 520	required in AN 1410 configuration example)
Option 408	Signal Studio for Enhanced Multitone

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.