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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8267C PSG Vector Signal Generator, up to 20 GHz

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
E8267C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8267C

LISTING

<https://aumictechlabs.com/products/e8267c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E8267C PSG Vector Signal Generator delivers signal generation across 250 kHz to 20 GHz, engineered for complex modulation and demanding test environments in aerospace, defense, and wireless communications. This vector signal generator combines precision frequency control with flexible modulation formats and arbitrary waveform playback, enabling rapid development and manufacturing validation of advanced RF systems.

Technical Specifications

Frequency Range: 250 kHz to 20 GHz with 0.001 Hz resolution
Output Power: +17 dBm to -130 dBm; CW level accuracy ± 0.8 dB (2 to 20 GHz)
RF Modulation Bandwidth: 160 MHz standard, extendable to 1 GHz; internal baseband generator supports 80 MHz RF BW
Arbitrary Waveform Capability: Up to 100 MSa/s playback; 64 MSa playback memory with 1 GSa storage; real-time symbol generation to 50 Msym/s
Baseband Memory: 160 MB (32 Msamples); optional 64 MSa for internal baseband generator
Internal Storage: 6 GB hard drive (1.2 Gsamples)
Sweep Functions: Step, list, and ramp sweep; ramp sweep time 10 ms to 100 s
Key Features

Modulation formats: FSK, MSK, PSK, QAM (4, 8, 16, 64, 256), custom I/Q, AM, FM, PM, and pulse modulation
External I/Q inputs at 160 MHz; optional wideband I/Q to 1 GHz or 40 MSa/s streaming
Generates radar test signals, 802.11 WLAN, multitone, noise power ratio, and custom modulation patterns
Remote control via 10BaseT LAN or GPIB with SCPI and IVI-COM drivers
RF output connector: 2.4 mm (f) on 20 GHz models; optional Type-N available
Front-panel connectors: RF output, video out, sync out, gate/pulse/trigger input, external inputs, ALC input, LF output

Typical Applications

Aerospace and defense signal validation, wireless communications development, radar signal testing, and manufacturing test of modulated RF devices.

Physical Specifications 7" H $\times$ 16.8" W $\times$ 19.6" D; 50 lbs.

E8267C 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
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 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	
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 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
Documentation Source	Agilent E8267C PSG Vector Signal Generator data sheet 5988-6632EN and AN 1410 5988-7689EN feature list

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
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.