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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E8257DV03

Keysight E8257DV03 VDI WR3.4 Signal Generator Frequency Extender 220 to 330 GHz The Keysight E8257DV03 isaVDI WR3.4 SGX extender covering 220 to 330 GHz. OEM E8257D configuration guide and VDI SGX tables list WR3.4 waveguide, typical output about minus 2 dBm and minimum about minus 6 dBm, with the same 7 to 13 dBm / minus 3 to 3 dBm dual RF inputs and N5262VDI-175 supply as other E8257DVxx modules. WR3.4 band source extension for THz research, spectroscopy, and mm-wave component test. Instrument Type: Signal generator frequency extension module The Keysight E8257DV03 isaVDI WR3.4 SGX extender covering 220 to 330 GHz. OEM E8257D configuration guide and VDI SGX tables list WR3.4 waveguide, typical output about minus 2 dBm and minimum about minus 6 dBm, with the same 7 to 13 dBm / minus 3 to 3 dBm dual RF inputs and N5262VDI-175 supply as other E8257DVxx modules. WR3.4 band source extension for THz research, spectroscopy, and mm-wave component test. Instrument Type: Signal generator frequency extension module Minimum Output Power Class: minus 6 dBm on VDI WR3.4 table

**MODEL****Agilent / Keysight
E8257DV03****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E8257DV03****LISTING**<https://aumictechlabs.com/products/e8257dv03-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight E8257DV03 is a microwave analog signal generator engineered for RF and microwave testing across aerospace, defense, and communications applications. This instrument

delivers broad frequency coverage, high output power, and precision modulation in a single source, enabling demanding device characterization and system validation with metrology-grade accuracy.

Technical Specifications

Frequency and Power Frequency range: 100 kHz to 67 GHz (extended to 1.1 THz with frequency extenders) Output power: up to +30 dBm (1 W) Output impedance: 50 Ω (nominal) Level accuracy: metrology-grade Frequency accuracy: metrology-grade Phase Noise Performance –91 dBc/Hz at 100 Hz offset (at 10 GHz) –126 dBc/Hz at 10 kHz offset (at 10 GHz) Modulation and Sweep Modulation types: AM, FM, phase modulation, pulse modulation Sweep modes: step sweep (frequency/amplitude), ramp sweep

Switching and Settling CW switching: typically 5 ms to within 0.05% of final frequency Stability Aging rate: $\pm 1 \times 10^{-7}$ /year Temperature stability: $\pm 5 \times 10^{-8}$ across 0 to 55 °C Line voltage effects: $\pm 2 \times 10^{-9}$ Output Characteristics Excellent harmonic and spurious rejection Low-band harmonic filters available (Option 1EH)

Key Features Extended low-frequency option down to 250 kHz (Option H1K) External reference input: 1, 2, 2.5, 5, 10 MHz GPIB system interface support Phase noise performance suitable for Doppler radar, ADC, and receiver-blocking tests Power ratings guaranteed 15 to 35 °C; typical 0 to 15 °C

Typical Applications Aerospace and defense system testing Communications receiver characterization Radar and Doppler testing ADC and receiver blocking analysis High-power device validation

Compatibility & Integration GPIB connectivity enables integration into automated test systems. Accommodates external frequency references for synchronized multi-instrument configurations.

E8257DV03 Characteristics / Specifications

PARAMETER	VALUE
Model	E8257DV03
Instrument Type	Signal generator frequency extension module
Vdi Model	WR3.4SGX
Frequency Range	220 GHz to 330 GHz
Waveguide	WR3.4
Typical Output Power	minus 2 dBm
Minimum Output Power Class	minus 6 dBm on VDI WR3.4 table
Standard Rf Input Level	7 to 13 dBm
Standard Rf Input Connector	2.92 mm female
High Frequency Rf Input Level	minus 3 to 3 dBm
High Frequency Rf Input Connector	2.4 mm female
Output Flange	VDI precision UG-387/UM
Am Ttl Input	0 to 5 V up to about 1 kHz BNC female
Ac Supply	100 to 240 VAC 3.5 A
External Supply	N5262VDI-175
Host Generator	E8257D PSG
Manufacturer	Virginia Diodes Inc for Keysight
Literature	5991-3162EN and 9018-04502
Related Wr	E8257DV10
Related Wr1p	E8257DV1B
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications

E8257DV03 Specifications

PARAMETER	VALUE
Applications	WR3.4 band source extension for THz research, spectroscopy, and mm-wave component test.
Key Features	220 to 330 GHz WR3.4 coverage
TTL AM	External N5262VDI-175 supply
Technical Specifications	Model: E8257DV03
Notes	From Keysight E8257DV01-V15 user's guide Table 1 and VDI SGX WR3.4 power column in 5991-3162EN.

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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Manufacturer	Virginia Diodes Inc for Keysight
Literature	5991-3162EN and 9018-04502
Related Wr10	E8257DV10
Related Wr1p5	E8257DV1B
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Notes	
From Keysight E8257DV01-V15 user's guide Table 1 and VDI SGX WR3.4 power column in 5991-3162EN.	

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