

PSG Signal Generators

- Industry's first 67 GHz analog and 44 GHz vector signal generators
- Best in class phase noise and high output power
- Up to 2 GHz RF modulation bandwidth for vector signals
- Flexible option structure reduces investment cost

Now with
even lower
close-to-carrier
phase noise
performance.



A higher standard in microwave signal generation



Agilent Technologies

To meet the needs of designers and manufacturers working on aerospace, defense, and microwave communications components and systems, the E8257D PSG analog signal generator has frequency ranges that extend up to 67 GHz¹. For those doing system-level test in radar, electronic warfare, and microwave communications, the new E8267D PSG vector signal generator provides frequencies up to 44 GHz.

Create complex signals

The internal baseband generator and I/Q modulator of the PSG vector signal generator provide the means to accurately simulate wideband complex waveforms for a variety of microwave applications at frequencies up to 44 GHz. With optional wideband I/Q inputs, the PSG vector signal generator will modulate baseband signals with up to 2 GHz bandwidth for carrier frequencies greater than 3.2 GHz.

Performance data²

Typical maximum output power³

> 3.2 to 20 GHz	+23 dBm
> 20 to 30 GHz	+20 dBm
> 30 to 40 GHz	+17 dBm
> 40 to 67 GHz	+14 dBm
> 67 to 70 GHz	+8 dBm

Ordering information

E8257D PSG analog signal generator

E8257D-520	250 kHz to 20 GHz
E8257D-532	250 kHz to 31.8 GHz
E8257D-540	250 kHz to 40 GHz
E8257D-550	250 kHz to 50 GHz
E8257D-567	250 kHz to 67 GHz ⁴

Other options provide:

AM/FM/PM modulation, standard pulse modulation, narrow pulse modulation, step attenuator, high power, reduced low band harmonics, improved phase noise, analog sweep interface, and more.

E8267D PSG vector signal generator

E8267D-520	250 kHz to 20 GHz
E8267D-532	250 kHz to 31.8 GHz
E8267D-544	250 kHz to 44 GHz

Other options include those listed for E8257D, plus: digital modulation, wide modulation bandwidth and internal baseband generators.

For additional information including data sheets and configuration guides please visit www.agilent.com/find/psg

1. Frequencies above 70 GHz up to 325 GHz require mm-wave modules. See Web for more details.
2. Data subject to change.
3. E8257D PSG with high output power option, 1EA.
4. Operational to 70 GHz.
5. E8257D PSG with enhanced phase noise option, UNX.

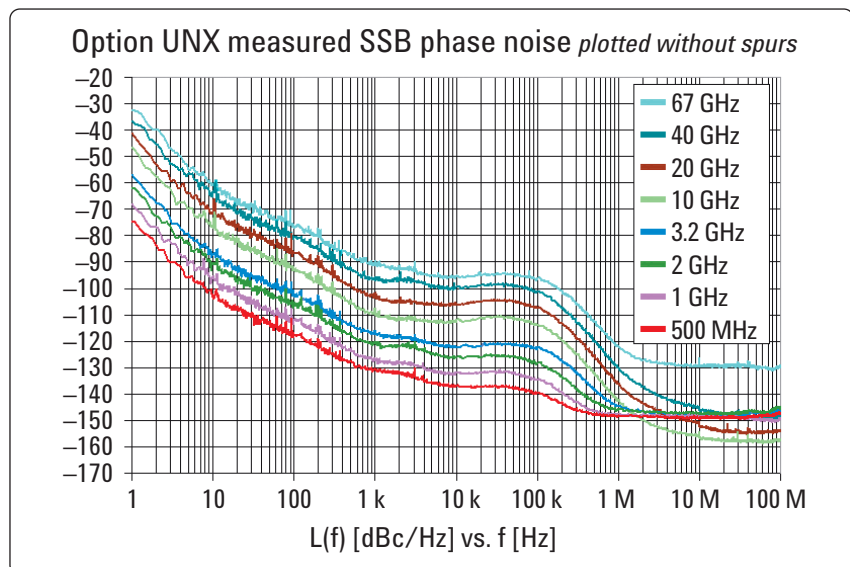
Flexible option structure to save you time and money

A flexible option structure allows you to tailor the PSG to your specific applications, ordering only the functionality you need. Expanding the capability of your PSG in the future is quick and easy because many of our options only require a license key for activation. In addition, our new option structure has reduced the typical delivery time for common PSG configurations.

Extend the PSG support life

A first for the Test & Measurement industry, Agilent now provides an option (1EZ) to extend the PSG signal generator's support for 10 years after the product is discontinued. The standard support life for an Agilent instrument is typically 5 years after discontinuance. Option 1EZ is not a warranty for repairs; it is a guarantee that Agilent will carry sufficient parts inventory and maintain calibration capability to service PSG signal generators for 10 years after discontinuance.

Measured single sideband phase noise⁵



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Printed in USA, March 9, 2006
5989-1221EN