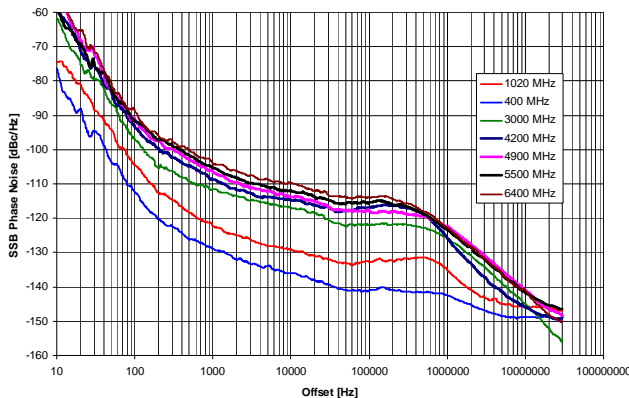


Product Brief

9 kHz to 6500 MHz Signal Generator **APSIN6000**

The APSIN6000 is a compact, high-performance RF signal generator with wide frequency coverage from 9 kHz to 6500 MHz, milli-Hz resolution, and broad output power range. It combines low phase noise, good harmonic and spurious signal suppression with fast switching.

An internal OCXO reference guarantees high stability and can be phase-locked to an external reference. The APSIN6000 is also available with an optional internal battery making it a truly-portable instrument weighting only 3 kgs.



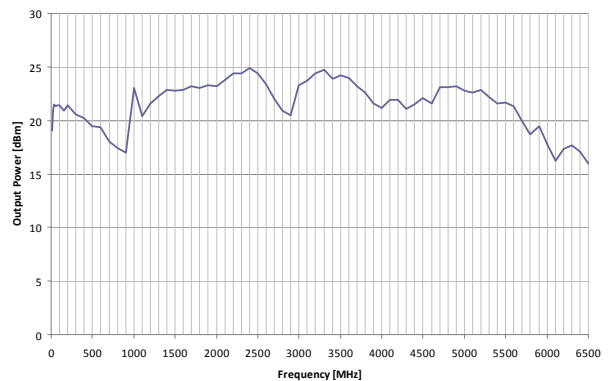
SSB Phase Noise

Key Features

- Excellent signal quality
- Internal high-stability reference (OCXO)
- Easy remote access (GUI, VISA/SCPI)
- Powerful trigger and sweep modes

Applications

- Lab analog signal source
- Production test & measurement
- Automated test systems (ATE)
- EMC testing
- Installation and Maintenance



Maximum Output Power

Options

- **B3:** internal rechargeable battery operation
- **PE:** power range to -100 dBm
- **PE2:** power range to -135 dBm
- **RM:** 19" Rack-mount

Key Specifications

Parameter	Value	Notes
Frequency range	9 kHz – 6500 MHz	
resolution	1 mHz	
Phase resolution	0.1 deg	
Settling time	2 ms 1 ms in list mode	
SSB Phase noise		
at 20 kHz from carrier	-115 dBc/Hz	5 GHz carrier
wideband noise	-150 dBc/Hz	
Power level		
Range	-30 – +13 dBm -100 – +13 dBm -140 – +13 dBm	Standard Option PE Option PE2
Resolution	0.1 dB	
Level uncertainty	< 1 dB	
Output impedance VSWR	50 Ω < 2	
Spectral purity		
output harmonics	< -30 dBc	
non-harmonic spurious	< -55 dBc	
Amplitude Modulation		
Rate	0.1 Hz – 10 kHz	sine, pulse, triangle
Depth	0 to 80 %	
Pulse Modulation		
Rate	DC – 5 MHz	
On/OFF Ratio	> 60 dB	
Pulse width	> 50 ns	
Rise/Fall times	< 10 ns	
Internal reference frequency	100 MHz	
Temperature stability	±100 ppb	0 to 50 °C
Dimensions	172 x 220 x 106 mm	W x L x H

