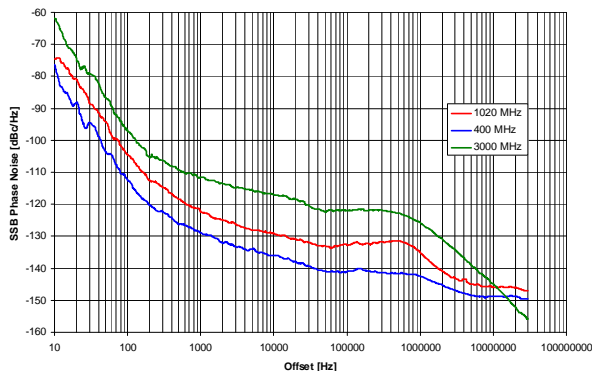


Product Brief

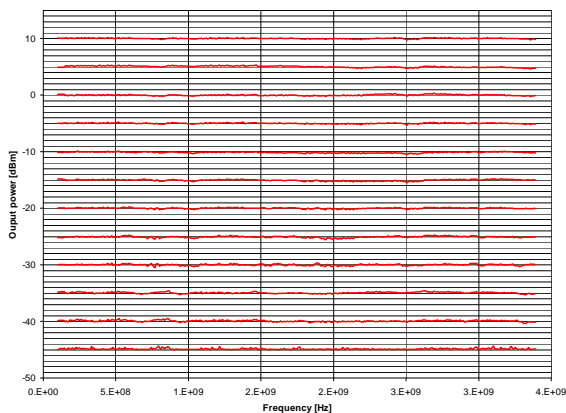
9 kHz to 3300 MHz Signal Generator **AP SIN3000**

The APSIN3000 is a compact, high-performance analog signal generator with frequency coverage from 9 kHz to 3300 MHz, mHz resolution and a precisely leveled, broad output power range. It provides excellent signal quality with low phase noise, good harmonic suppression and low spurious.

It supports AM/FM/PM and pulse modulation and has an internal low-drift OCXO reference. A truly portable version of the APSIN3000 is available with an optional internal battery and weighs less than 3 kgs.



SSB Phase Noise



Level Accuracy

Key Features

- Very low phase noise
- Externally lockable high-stability reference (OCXO)
- Easy remote control from PC (GUI)
- VXI-11/SCPI-99 fully supported

Applications

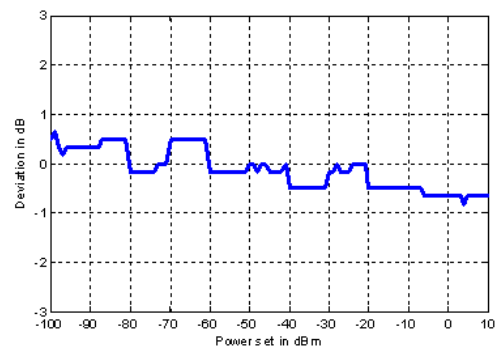
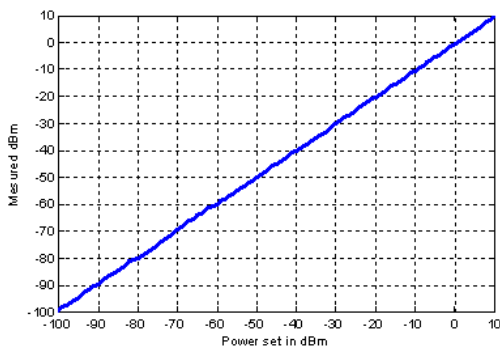
- High-Performance Lab Generator
- Automated test systems (ATE)
- Field measurements

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	Remarks
Frequency range	9 kHz -- 3300 MHz	
resolution	1 MHz	
Phase resolution	0.1 deg	
Settling/step time in list mode	2 ms 1 ms	
SSB Phase noise		
at 20 kHz from carrier	-130 dBc/Hz	1 GHz carrier
wideband noise	-150 dBc/Hz	
Total Jitter	< 100 fs	Integrated 10 Hz to 20 MHz
Power level		
Range	-30 -- +13 dBm -100 -- +13 dBm -135 -- +13 dBm	Standard Option PE Option PE2
Resolution	0.1 dB	
Level uncertainty	< 1 dB	
Output impedance VSWR	50 Ω 1.6	
Spectral purity output harmonics non-harmonic spurious	< -30 dBc < -60 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	> 100 ns	
Rise/Fall times	< 10 ns	
Internal reference frequency	100 MHz	
Temperature stability	± 100 ppb	0 to 50 $^{\circ}\text{C}$
Dimensions	172 x 220 x 106 mm	W x L x H



Level Linearity at 1 GHz