



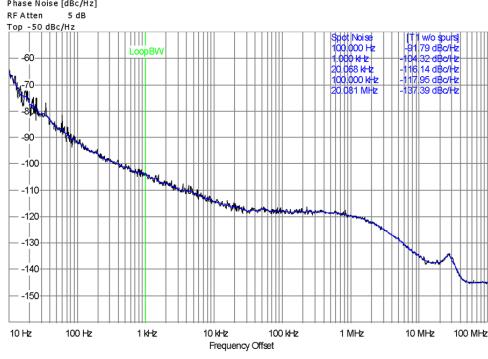
9 kHz to 6100 MHz Signal Generator **APSIN6010RM**

REQUEST QUOTE

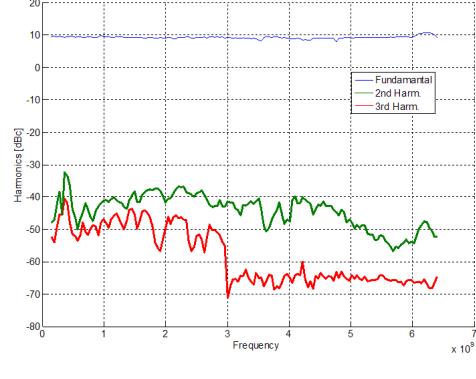
The APSIN6010RM is a 19" 1U rackmount, very low phase noise, fast-switching RF signal generator with μ -Hz frequency resolution, and precisely leveled power range from -120 to +13+ dBm. It combines excellent signal quality, high-quality analog modulation and fast switching capabilities. Flexible and simultaneous modulation allows complex signal simulation. The internal OCXO guarantees a high stability time base and can be locked to an external reference in the range of 1 to 250 MHz. The modular design simplifies maintenance and minimizes cost of ownership.



SSB phase Noise at 4 GHz



Harmonic Distortion at +10 dBm



Key Features

- Only 200 μ s frequency switching time
- Excellent SSB phase noise
- Comprehensive AM, low-distortion, wideband FM and PM and high speed pulse modulation for testing all types of receivers
- LAN/USB/GPIB (optional) remote control
- Input for USB power sensor
- Powerful trigger and sweeping modes

Applications

- R&D high-quality lab source
- Education
- Production test & measurement
- Automated test systems (ATE)
- EMC testing

Options

- PE3: extended power range down to -120 dBm (Step Attenuator added)
- GPIB: IEEE-488.2,1987 programming interface

Key Specifications

Parameter	Value	Notes
Frequency range	9 kHz -- 6100 MHz	
resolution	0.1 mHz	
Phase resolution	0.1 deg	
Settling time	0.2 ms	
SSB Phase noise		
at 20 kHz from carrier	-120 dBc/Hz	3 GHz carrier
wideband noise	-150 dBc/Hz	
Power level		
Range	-30 -- +13 dBm -120 -- +13 dBm	Standard Option PE3
Resolution	0.05 dB	
Level uncertainty	< 1 dB	
Output impedance	50 W	
VSWR	1.5 typical	
Spectral purity		
output harmonics	< -30 dBc	
non-harmonic spurious	< -60 dBc	
Sweeps & Trigger		
Dwell time	> 50 µs	
Time resolution	10 µs	
List size	20'000	
Trigger	auto, external, bus, gated	
Frequency Modulation		
Modulation rate	DC to 800 kHz	
Maximum deviation	> 7 % of f	
Distortion	0.1 %	$f_{mod} = 1 \text{ kHz}$ $\& f_{dev} = 10 \text{ MHz}$

Amplitude Modulation		
Rate	0.1 Hz – 20 kHz	
Depth	0 to 95 %	
Distortion	1.5 % at 30 % 2 % at 80 %	$f_{mod} = 1 \text{ kHz}$
Pulse Modulation		
Rate	DC – 10 MHz	
On/OFF Ratio	> 60 dB	
Pulse width	> 50 ns	
Rise/Fall times	< 10 ns	
Internal reference		
Temperature stability	$\pm 100 \text{ ppb}$	0 to 50 °C