

NEW! INDUSTRY LEADING SPECTRAL PURITY

The HSX Series was developed to be of the cleanest CW sources available. Phase noise performance, spurious rejection and harmonic /sub-harmonic rejection were the primary focus points during the development cycle. The result is an extremely high performing, broadband CW source.

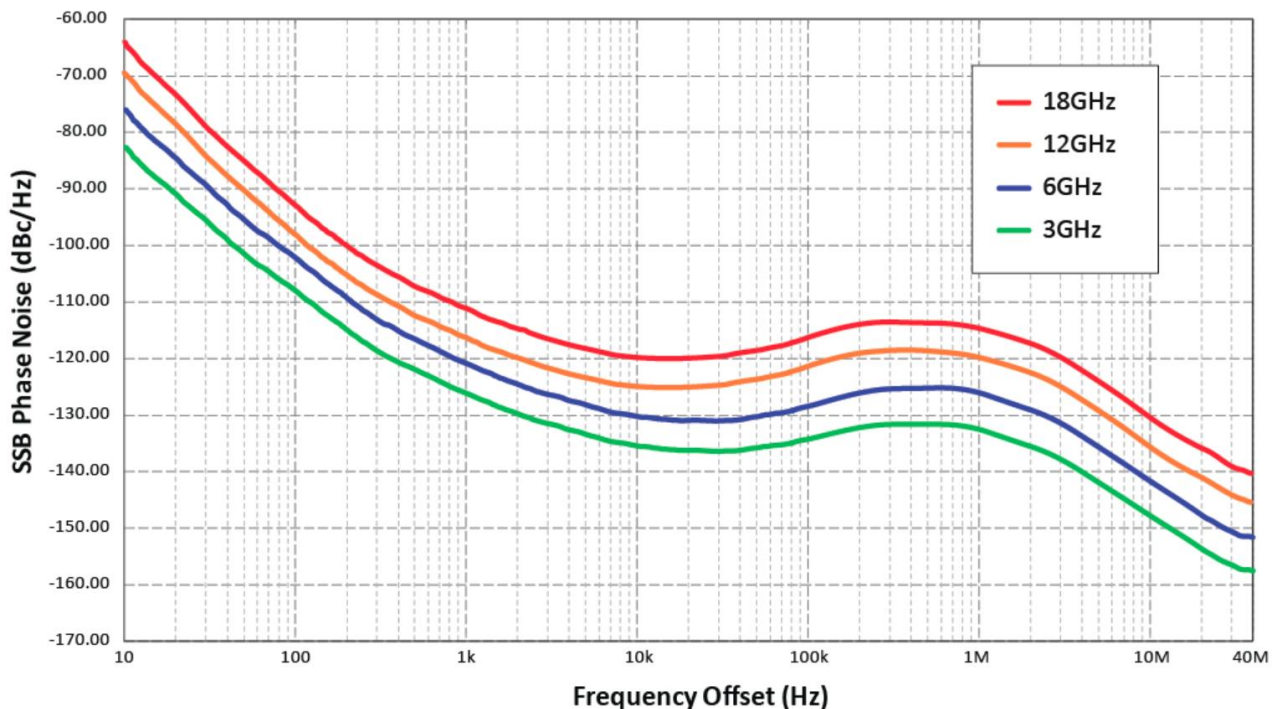
The HSX Series is available as a 10MHz to 3GHz, 6GHz, 12GHz or 24GHz multi-channel CW source. This series of broadband frequency sources exhibit industry leading phase noise and spectral purity performance coupled with a highly accurate dynamic range of +20dBm to -110dBm. The 1U high form factor will be available in 1, 2, 3 or 4 channel models; all providing the ultimate in frequency accuracy, channel-to-channel stability and phase coherent channels. Users can also mix and match channel bandwidth options to optimize the price point for a given application.

SPECTRAL PURITY SPECIFICATIONS

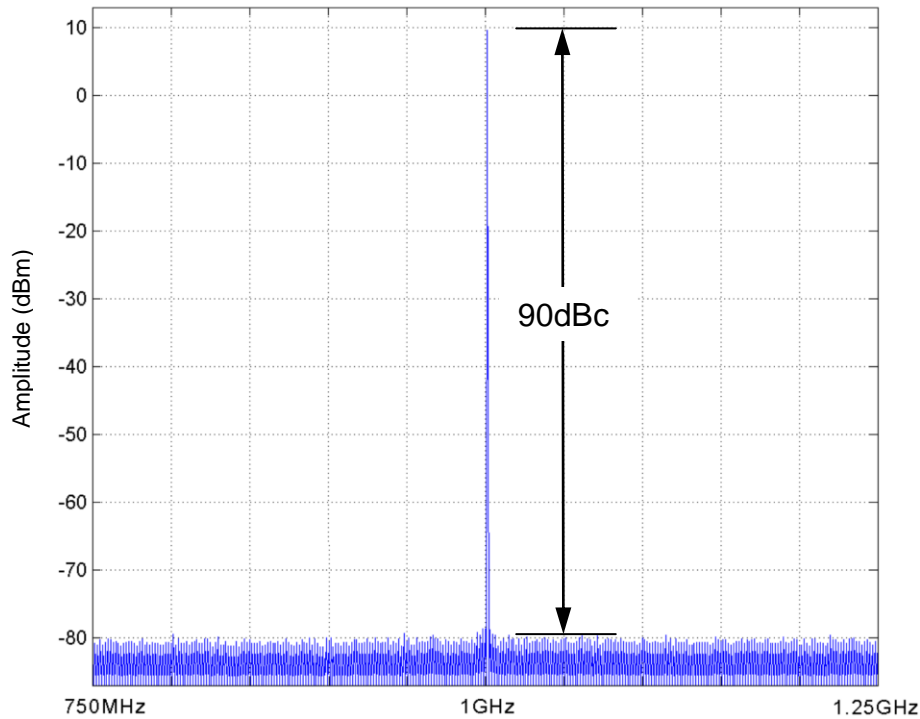
Bandwidth	Output Power	Phase Noise at Max. Frequency			Harmonics	Spurious
		10Hz offset	10kHz offset	10MHz offset		
10MHz to 3GHz	+20dBm to -110dBm	-82dBc/Hz	-136dBc/Hz	-148dBc/Hz	-40dBc	-90dBc
10MHz to 6GHz	+20dBm to -110dBm	-76dBc/Hz	-130dBc/Hz	-142dBc/Hz	-40dBc	-90dBc
10MHz to 12GHz	+20dBm to -90dBm	-70dBc/Hz	-124dBc/Hz	-136dBc/Hz	-35dBc	-90dBc
10MHz to 24GHz	+20dBm to -90dBm	-64dBc/Hz	-118dBc/Hz	-130dBc/Hz	-35dBc	-90dBc

PHASE NOISE PERFORMANCE

The HSX Series targets extremely low phase noise performance. The enhanced architecture maintains phase coherency while optimizing both long term and short term stability.



SPECTRAL PURITY PERFORMANCE



ADDITIONAL SPECIFICATIONS

PARAMETER	MIN	TYPICAL	MAX	COMMENTS
Frequency Range	10MHz		3, 6, 12, 24GHz	
Frequency Resolution	0.001Hz			
Switching Speed (Frequency)		500 μ s		
Output Power Range	-110 dBm		+20 dBm	Calibrated accuracy. -90dBm min on 12GHz /20GHz
Interface	USB, Ethernet, RS-232, GPIB. Java™ application GUI, LabVIEW™, MATLAB™, C++, etc. (open DLL)			
Product dimensions	1U (1.75 in.) high. 17 in. wide. 15 in. deep. 19" rack mount kit available.			
Warranty	3 years. Full manufacturer's warranty against defects. Parts and Labor.			



HSX9004A – 4 channel RF Synthesizer
Phase Coherent, Independently Tunable Channels
3 YEAR FACTORY WARRANTY