

NOISE XT



LNS-18 Low Noise Synthesizer



The LNS-18 is a general purpose synthesizer that exhibits outstanding phase noise performance. Its low noise oscillators generate a very flexible frequency up to 18 GHz.

With -132 dBc/Hz at 10 GHz carrier and 20 kHz offset, the LNS-18 is one of the lowest phase noise synthesizer that can help you challenge tomorrow's requirements for Space and Defense applications.

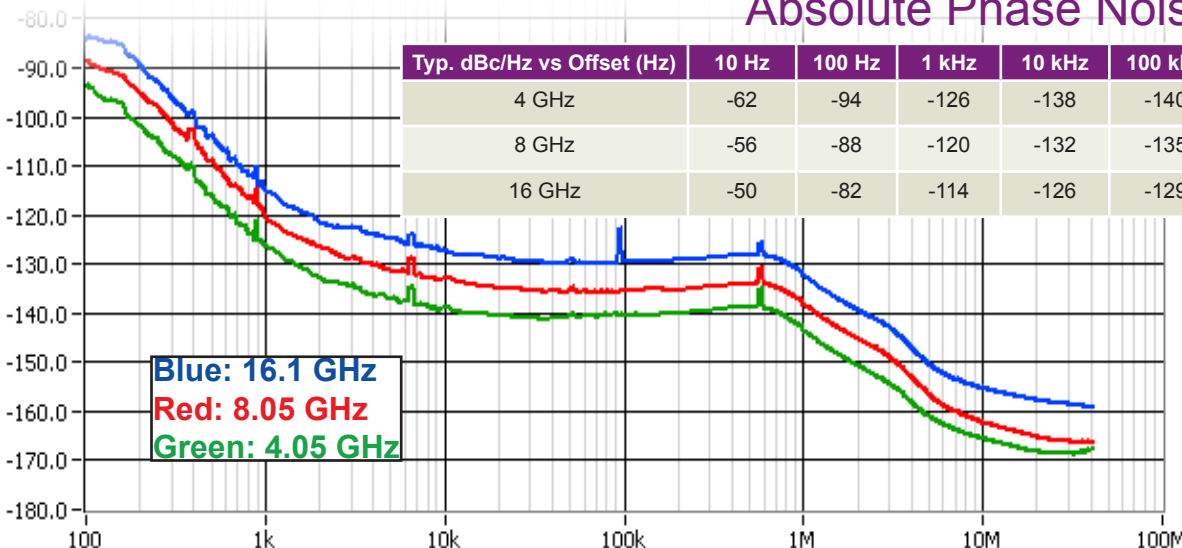
Optional level control, Pulse modulation, GPIB and low frequency extension down to 8 MHz using ultra low noise frequency dividers (-165 dBc/Hz) are also available in addition to the Ethernet and EFC input.

LNS-18 Specifications

- Output Frequency:** 4 to 18 GHz (option for 8 MHz min)
- Output Level:** +13 dBm (+/-2) dB
- Non-harmonic spurious:** -50 dBc from 1 Hz to 1 kHz offset
-80 dBc above 1 kHz offset

Absolute Phase Noise (dBc/Hz)

Typ. dBc/Hz vs Offset (Hz)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	1 MHz	10 MHz
4 GHz	-62	-94	-126	-138	-140	-142	-165
8 GHz	-56	-88	-120	-132	-135	-138	-162
16 GHz	-50	-82	-114	-126	-129	-132	-155



Preliminary specifications, the values shown are typical values, for guaranteed values add +5dB.

Blue: 16.1 GHz
Red: 8.05 GHz
Green: 4.05 GHz



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