

PNCS-1 Phase Noise Clock Standard

1 GHz



The PNCS-1 Phase Noise Clock Standard provides an ultra-low phase noise 1 GHz sinewave that can be used as a phase noise reference standard for testing spectrum analyzer phase noise performance.

The PNCS-1 is also well suited for use as a system clock for ADCs and DACs, providing a clean reference for optimal performance.

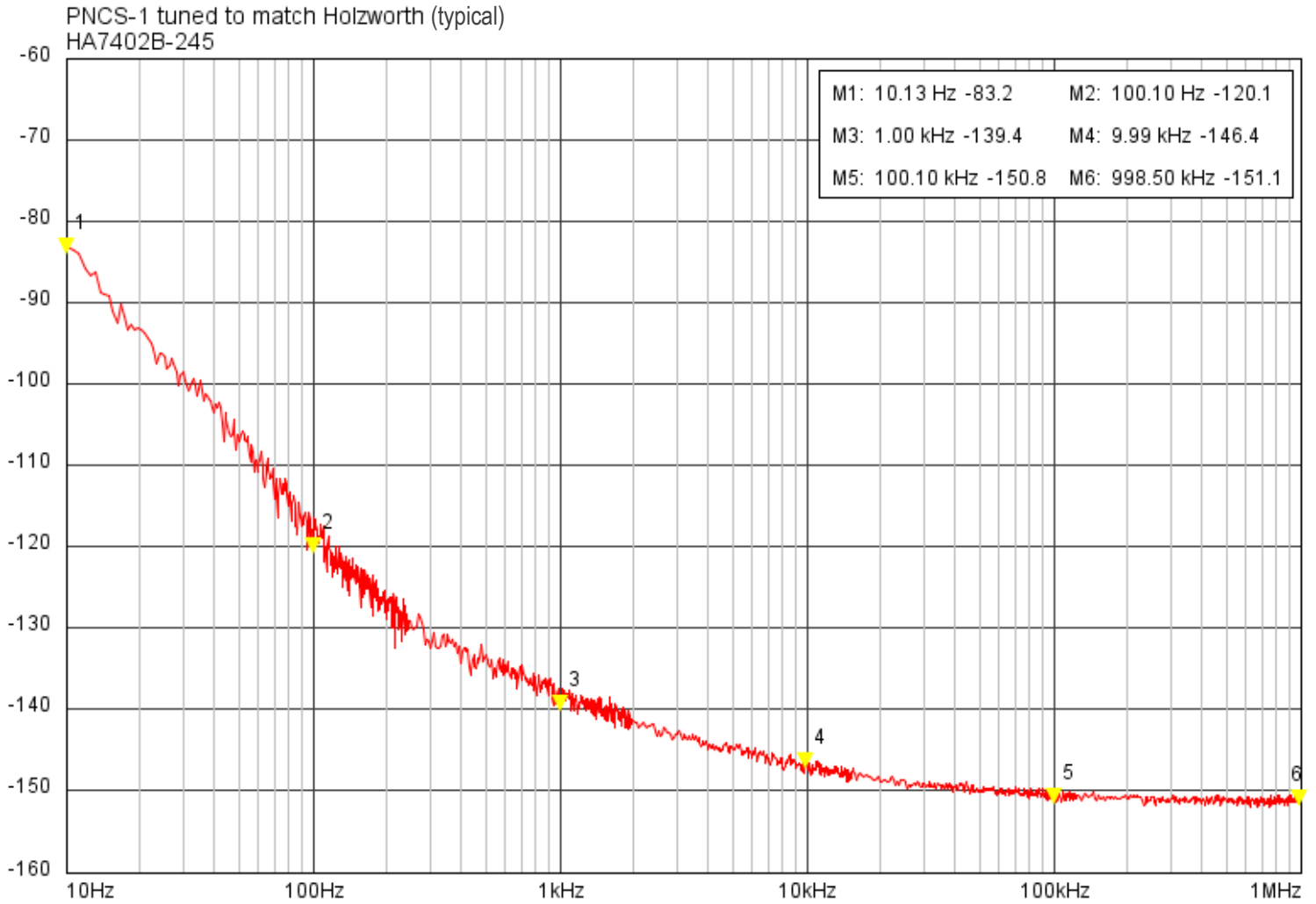
For low phase noise RF applications, the PNCS-1 can be used as a reference for high speed PFDs, or multiplied to higher frequencies for use in translation loop architectures.

SPECIFICATIONS

OUTPUT FREQUENCY	1 GHz Nominal with 1.5 ppm rear panel frequency adjustment RF Input Impedance (SMA connector): 50Ω nominal
OUTPUT AMPLITUDE	+10dBm (± 2dB)
HARMONICS	-35dBc Typical
OPERATING TEMPERATURE (AMBIENT)	50°F to 95°F (10°C to +35°C)
SIZE AND WEIGHT	6.5" x 3.2" x 1.1" (259mm x 183mm x 55mm), 8.96 oz. (256.5 g)
POWER CONSUMPTION	4.5 watts sourced from the supplied AC/DC 13.5V wall adapter
ECCN	3A001.b.10

SSB PHASE NOISE AT 1 GHz CENTER FREQUENCY

Offset Frequency	dBc/Hz
10 Hz	-82
100 Hz	-116
1 kHz	-138
10 kHz	-147
100 kHz	-148
1 MHz	-149



Units XCorr : 10
dBc/Hz
2017/11/15 12:46:05

Time : 3 min 0 sec

Freq : 999.999 998 0 MHz

Power: 9.3 dBm