



Holzworth

HA7063A

50GHz DOWNCONVERTER

10MHz to 50GHz REAL TIME PHASE NOISE MEASUREMENTS

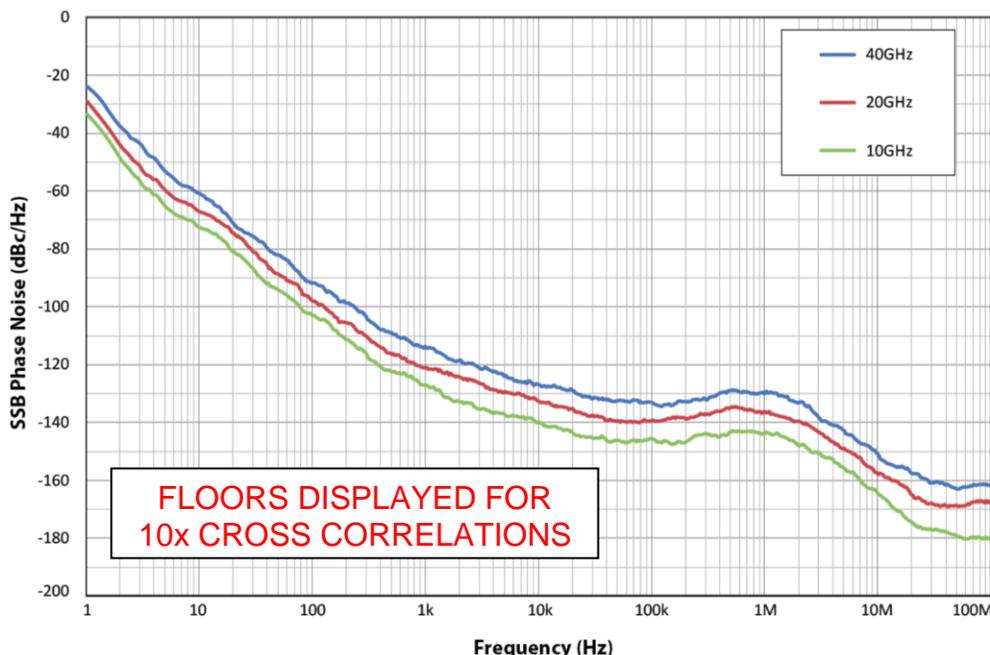
The HA7063A is a heterodyne downconversion system that is designed to seamlessly integrate with Holzworth's real time phase noise analysis products as an ANSI z540 calibrated frequency extension. The HA7063A provides for both absolute and residual (additive) measurements to 50GHz, making it the only solution available on the market for taking accurate additive phase noise measurements at frequencies greater than 18GHz.



INTEGRATES WITH MODEL HA7062C or HA7062D

MEASURABLE NOISE FLOORS

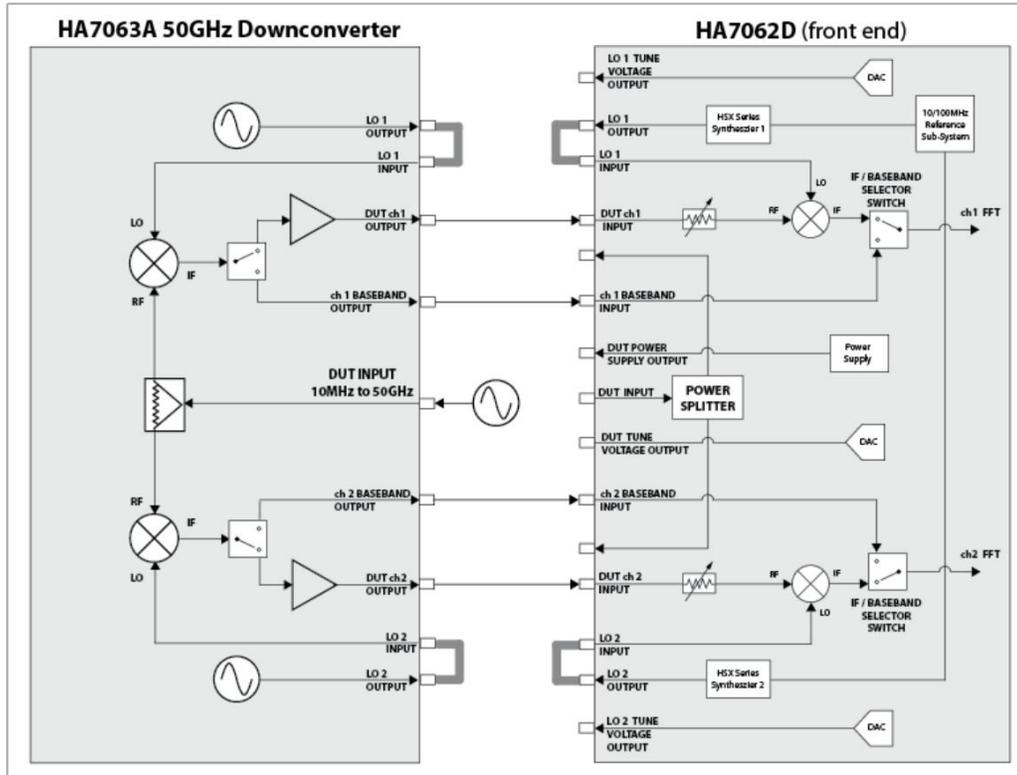
Holzworth's Real Time Phase Noise analyzers are the only analyzers available with the capability to measure the actual noise floor of the instrument. Other phase noise analyzers provide an *approximated* floor which is derived from the DUT data. An approximation is not as valuable as knowing an instrument's true noise floor as no two instruments are created equal. The HA7063A expands this noise floor measurement capability up to 50GHz.





UNIQUE ARCHITECTURE

The HA7063A 50GHz Downconverter is a heterodyne architecture that utilizes an analog architecture that is similar to the dual channel design that is used in the Holzworth real time phase noise analyzers with which it operates.



PERFORMANCE SUMMARY

DUT Input Range	10MHz to 50GHz
DUT Amplitude Range	-30dBm to +20dBm
Measurement Offset Range	0.1Hz to 40MHz (with HA7062C) 0.1Hz to 100MHz (with HA7062D)
Baseband Measurement Range	0.1Hz to 100MHz
AM Noise Measurement Range	0.1Hz to 1MHz
Measurement Floor	< -195dBc/Hz (as measured)
Measurement Speed (per correlation)	<1s (100Hz-100MHz), <5s (10Hz-100MHz)
Measurement Types	Absolute, Residual, AM, Baseband, Jitter, Spurious
Calibration	ANSI z540.1 with NIST Traceability (included)
Warranty	3 years