

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 of greater than 18GHz, without using external mixers.

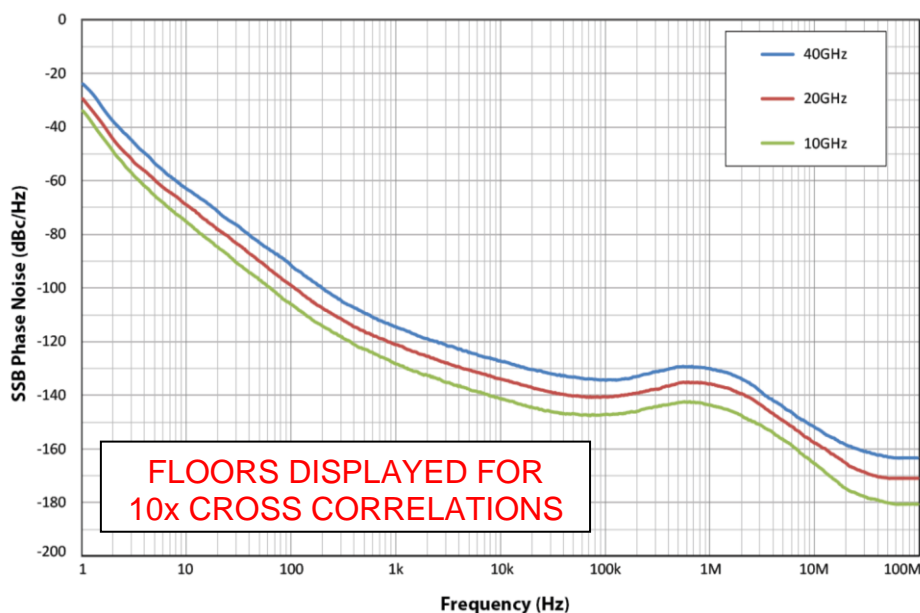
PRE-RELEASE - AVAILABLE SEPT 2020



INTEGRATES WITH MODEL HA7062C or HA7062D

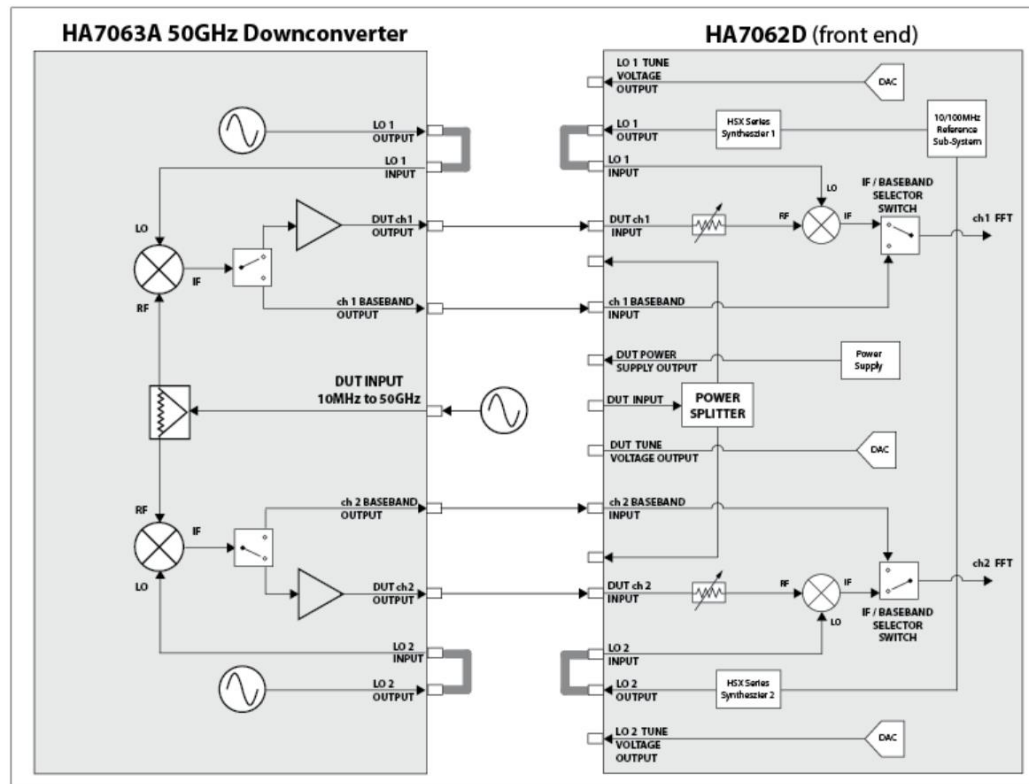
MEASURABLE NOISE FLOORS

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 design that utilizes an analog architecture that is similar to the dual channel configuration used in the Holzworth HA7062C/D Real Time Phase Noise Analyzers with which it operates.



PERFORMANCE SUMMARY (PRELIMINARY)

| | |
|--------------------------------------------|-----------------------------------------------------------------|
| 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 | DC to 40MHz (with HA7062C) DC to 100MHz (with HA7062D) |
| AM Noise Measurement Range | 1Hz to 1MHz |
| Measurement Floor | < -190dBc/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 |