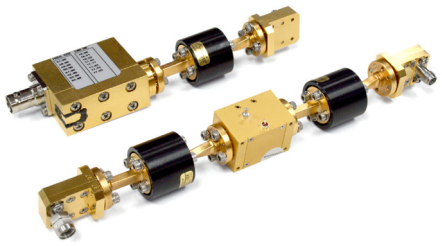
Noisecom

Data Sheet

60 GHz
Noise Figure Test Set



The Noisecom 60 GHz Noise Figure test set has 4 separate systems designed to perform Y-factor noise figure measurements using a high performance Spectrum Analyzer or a dedicated receiver. Each system contains a highly stable V-band noise source, isolator(s), optional waveguide to coaxial transitions and an optional pre-amplifier for use with a spectrum analyzer. The two standard calibration tables have ENR data points at 1 GHz intervals.* System ENR is measured before the DUT connector and at the final output stage allowing for pre-test calibration of the system.

* Additional calibration points are available upon request. Please contact your local sales office.

Applications

- 802.11ad, 60 GHz WiFi
- Small Cell wireless backhaul
- Wireless HD
- 60 GHz WiGig

Specifications

Noise Source

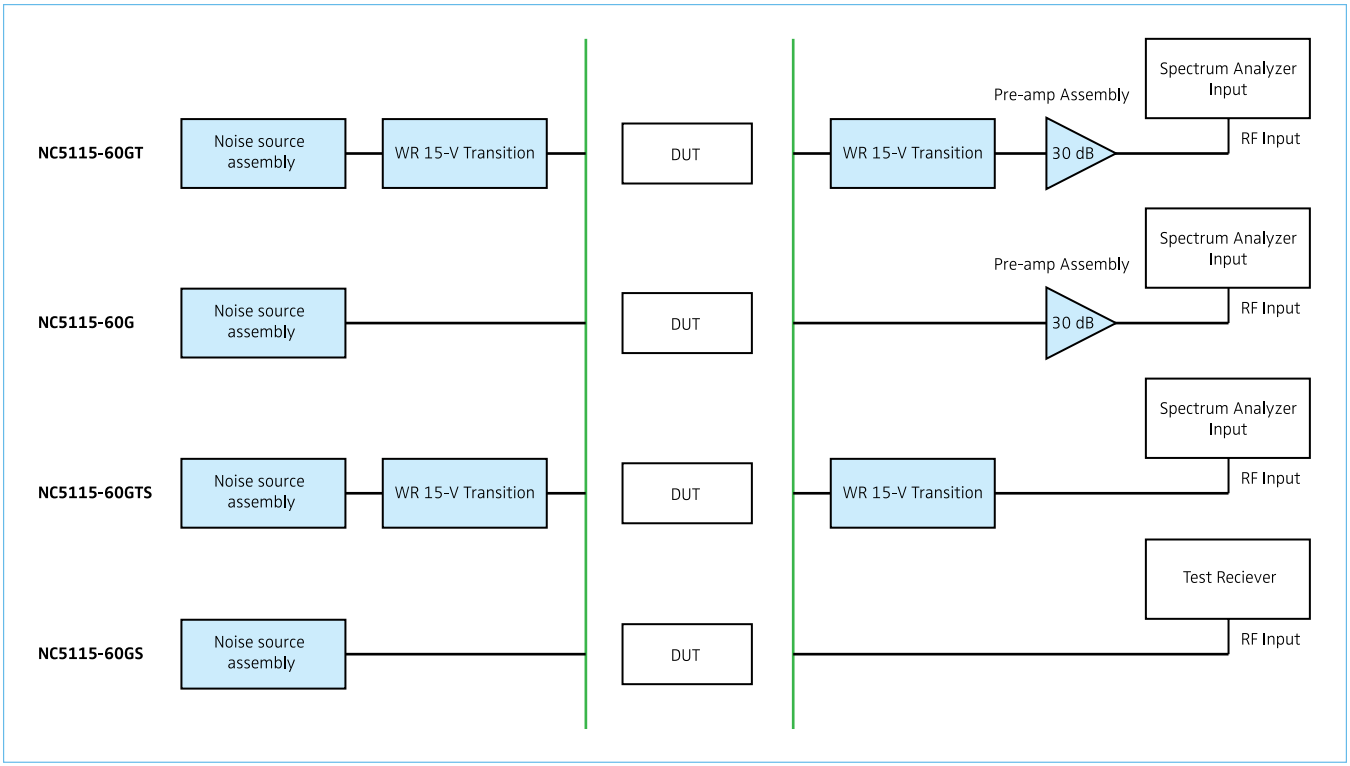
BW	50 GHz to 75 GHz
Power output	17.5 dB ENR
Flatness	± 2.5 dB
Power input	28 V, BNC connector

Amplification

BW	57 GHz to 64 GHz
Power	30 dB of Gain
Final output Flatness	±3 dB
Power input	12V, 160 mA, two solder lugs

Isolation

25 dB of isolation @ 60 GHz



System Block Diagram

The above diagram illustrates all four Noise Figure system possibilities. If measuring on a wafer, the isolator waveguide is connected directly to the probe station. When connecting to an external LNA/receiver assembly via coaxial cable, WR15 – V transitions are available. The 60GTS system is for testing a fully assembled receiver circuit with enough output power to connect directly to the spectrum analyzer coaxially. The 60GS system allows for waveguide connection to a dedicated test receiver.

Options

NC5115-60G	Calibrated Noise figure Test set with LNA and WR15 (m) waveguide
NC5115-60GT	Calibrated Noise figure Test set with LNA and VT-085 1.85 mm coax transition
NC5115-60GS	Calibrated Noise figure Test set WR15 (m) waveguide
NC5115-60GTS	Calibrated Noise figure Test set VT-085 1.85 mm coax transition

Wireless Telecom Group
Boonton Microlab Noisecom

Wireless Telecom Group Inc.
25 Eastmans Rd
Parsippany, NJ
United States
Tel: +1 973 386 9696
Fax: +1 973 386 9191
www.noisecom.com

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