Roos Instruments

RI8580 - 56 to 67 GHz Test Set

Cassini Instrument Profile

Applications

- 5G Millimeter Wave
- Ultra Wideband
- Point-to-Point Communication

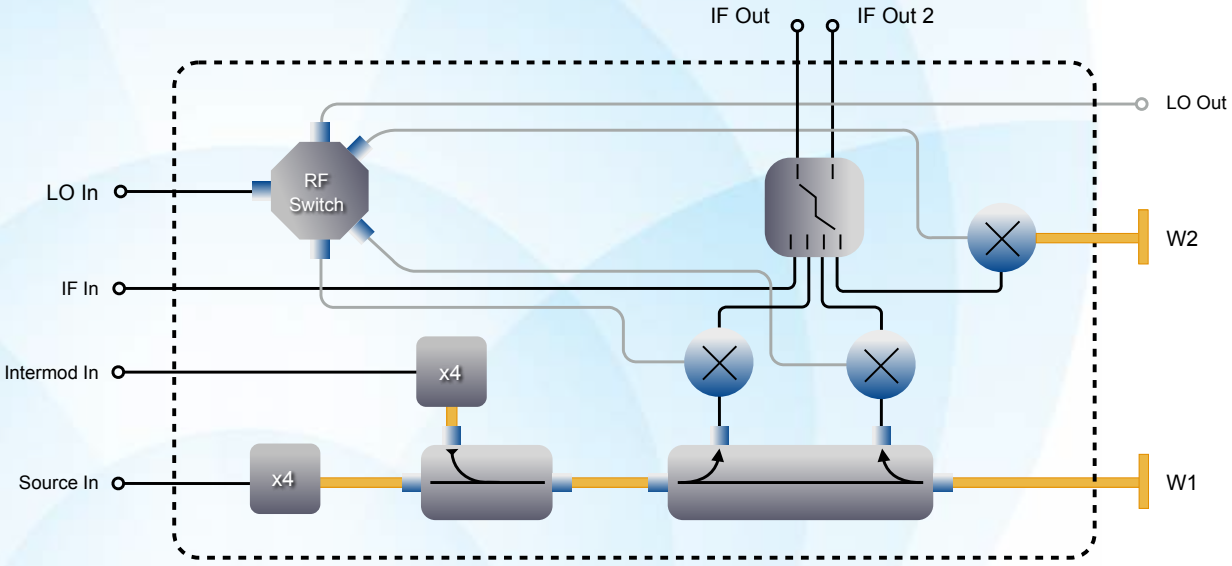
Overview

The RI8580 Test Set extends the frequency and application capability of Cassini with a 2-port vector analyzer supporting the 56 - 67 GHz band. With bilateral and unilateral waveguide ports, the versatile architecture delivers a precision 2-tone source and measure of signal power, phase, return loss and forward gain s-parameters. Designed to integrate with a 20 GHz Cassini source and receiver, the test set instrument enables error-corrected vector measurements as well as absolute power measurements.

Key Features

- *Error Corrected S-Parameters from 56 to 67 GHz*
- *Blind-Mate, RR15 Micro Flange Waveguide Interface*
- *-110 to +10 dBm Measurement Range*
- *-85 to +5 dBm Source Range*

Block Diagram



Performance

Sources	
Frequency Range	56 GHz to 67 GHz
Frequency Resolution	4 Hz
Power Range(Main)	-85 to +5 dBm
Power Range(IM)	-55 to +5 dBm

Measure	
Frequency Range	56 GHz to 67 GHz
Power Range[1]	-110 dBm to +10 dBm
Sensitivity (W1)	-110 dBm
Sensitivity (W2)	-130 dBm

[1] Typical performance with an RI8587 Receiver

Inputs/Outputs

Cassini Test Systems

A versatile, high-speed, automated test solution for analog, mixed-signal, RF, and millimeter-wave devices.

Cassini provides a modular base architecture that is fully configurable via Test Instrument Modules (TIMs) to meet the needs of any IC, wafer, or module test requirement.

Each TIM contains internally-cooled, RF-shielded measurement instrumentation, signal distribution, and blind mate interfacing to provide targeted test resources and integrate to build up a complete production test platform.

Combined with Roos Instruments' integrated test software, Cassini can be configured to any application for maximum performance, true low cost of test, and the industry's fastest test times.

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