

Applications

- Automotive Radar
- Ultra Wideband
- Point-to-Point Communication
- Electronic Warfare

Overview

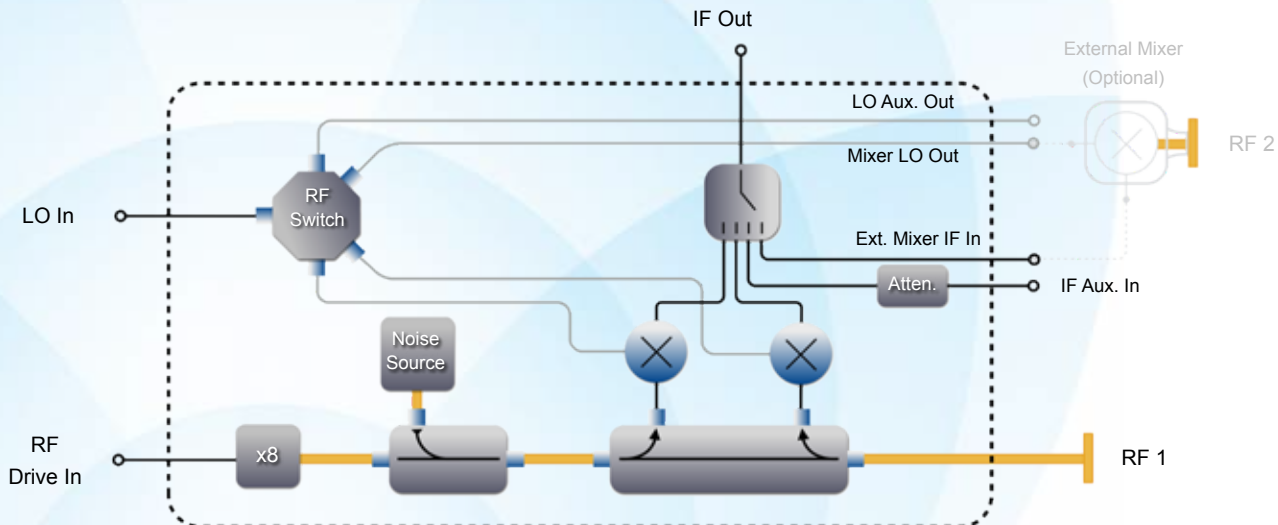
The RI8564 Test Set extends the frequency and application capability of Cassini with a 1-port vector analyzer supporting the 71 - 86 GHz band. With a bilateral waveguide port and millimeter wave components, the versatile architecture delivers precision source and measure of signal power, phase, s-parameters, and noise figure. Designed to integrate with a 20 GHz Cassini source and receiver, the test set instrument enables error-corrected calibration and vector measurements as well as providing auxiliary IF and LO ports to support external millimeter wave mixers for precision, thru-type measurements and extended test application flexibility.



Key Features

- *Vector Error Corrected S-Parameters from 71 to 86 GHz*
- *Self-Aligning, Blind-mate Waveguide Interface*
- *-110 to +10 dBm Measurement Range*
- *-45 to +5 dBm Source Range*

Block Diagram



Performance

Source

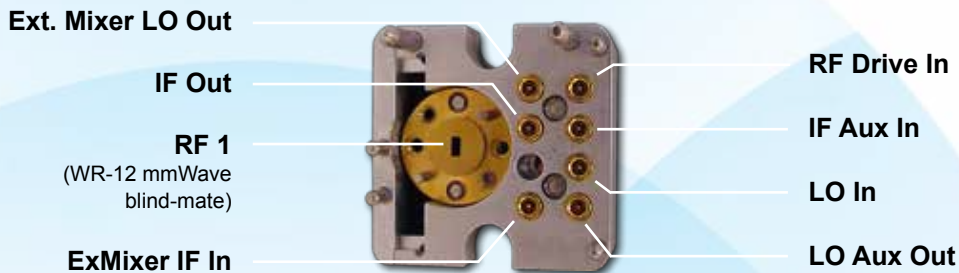
Frequency Range	71 GHz to 86 GHz
Frequency Resolution	8 Hz
Power Range	-45 to +5 dBm

Measure

Frequency Range	71 GHz to 86 GHz
Power Range ¹	-110 dBm to +10 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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