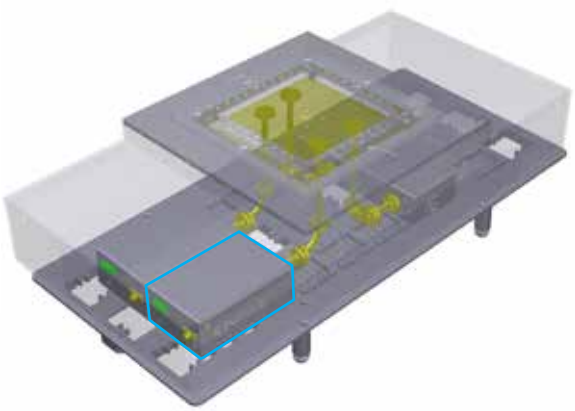
Roos Instruments

RI8601 - 71 to 86 GHz Source TFI

Cassini Instrument Profile

Applications

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



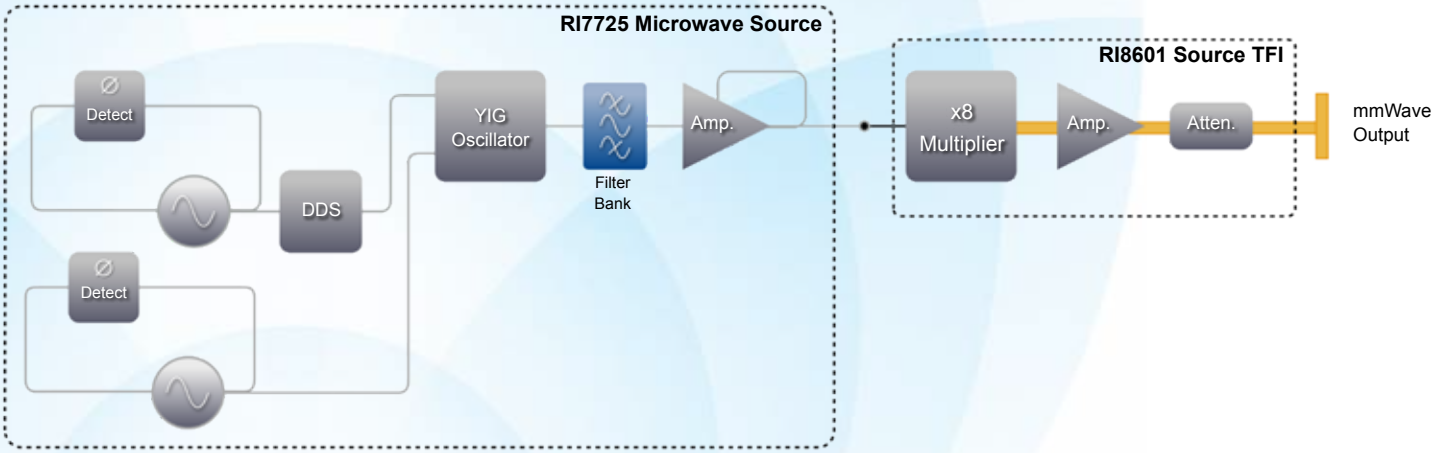
Overview

The RI8601 Source Test Fixture Instrument (TFI) extends the frequency and application capability of a Cassini source to the 71 - 86 GHz band with a dedicated waveguide port. With built-in power control and integrated calibration the source TFI delivers precision signal power for millimeter wave test applications. Designed to integrate with a 20 GHz Cassini source, the RI8601's compact design supports drop-in integration with standard Cassini fixtures for minimized signal routing to the device under test in-package and probe station type setups for low loss, high fidelity sourcing.

Key Features

- *Cost Effective Multi-Port/Multi-Site Design Layouts*
- *Minimal Footprint for Optimum Placement near DUT*
- *Integrated Calibration and Software Control*
- *-35 to +10 dBm Source Range*

Block Diagram



Performance

Source[1]

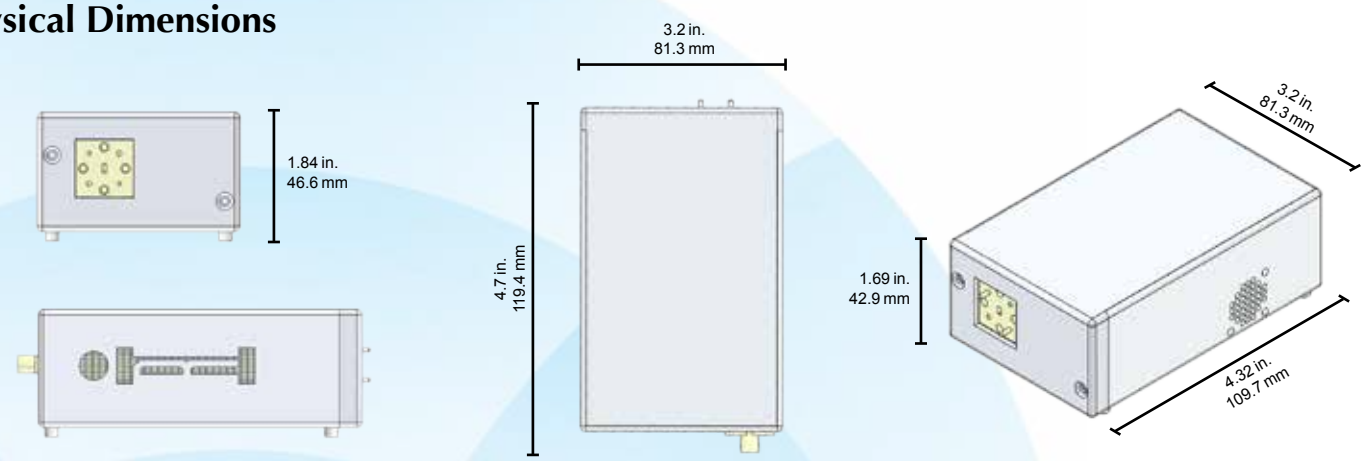
Frequency Range	71 GHz to 86 GHz
Frequency Resolution	8 Hz
Power Range	-35 to +10 dBm

Connector Types

Output Port	WR-12 Waveguide
Input Port	2.92mm (K-Connector) Female

[1] Typical performance with an RI7725 Source

Physical Dimensions



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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