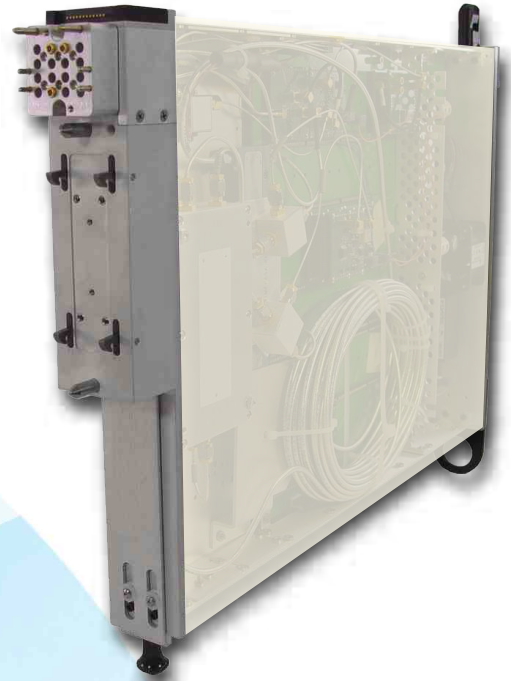


## Applications

- VCOs
- Oscillators
- PLLs
- Microwave References
- Precision Timebases
- Discrete Filters

## Overview

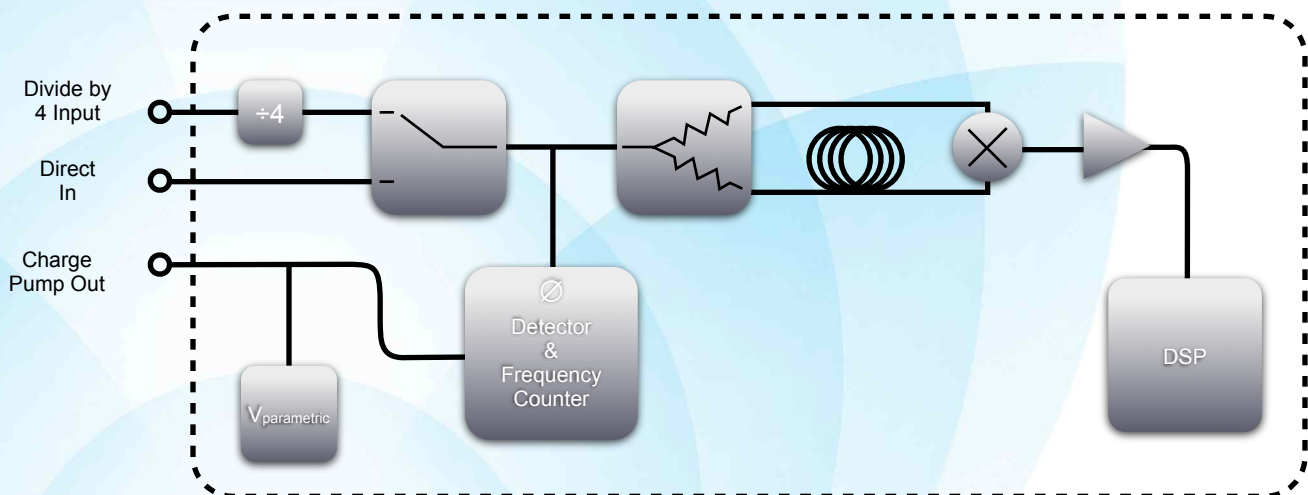
The RI8575A Phase Noise Measure instrument provides the industry's first direct phase noise measurement capability designed for production test of microwave VCOs and oscillators. It provides all of the resources for biasing and phase-locking a device, evaluating Kv, linearity, FM sideband performance, and phase noise.



## Key Features

- *Input Frequency Range: 1 - 16 GHz*
- *Phase Noise Measure from 50 kHz to 2 MHz*
- *FM Sideband Measure*
- *Phase Detector with Built-in Reference Oscillator*
- *Parametric Supply/ Measure for Tune Voltage & Current*
- *Linearity & Kv Measure with 16-bit Frequency Counter*

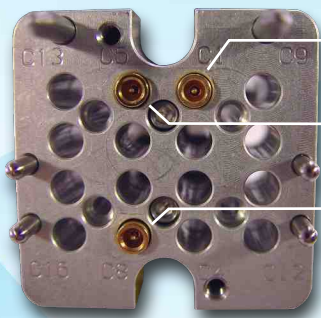
## Block Diagram



## Performance

Frequency Range	1 GHz to 16 GHz
Offset	50 kHz to 2 MHz
Noise Floor	
Direct Input	-129 dBc/Hz @ 50 kHz -161 dBc/Hz @ 2 MHz
÷ 4 Input	-117 dBc/Hz @ 50 kHz -146 dBc/Hz @ 2 MHz

## Inputs/Outputs



**Direct Input:** 1-4 GHz RF input

**Divide-by-4 Input:** 4-16 GHz RF input

**Charge Pump Out:** Multi-purpose I/O Phase Detector Output, Voltage/Current Parametric Output, or DC Input Parametric Measure

## 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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