Applications

- DSSS 5 GHz WLAN (IEEE802.11a)
- Access Points, PCMCIA, PC cards

Features

- High output power amplifier 19.5dBm
- Only 1 external component required
- Integrated power amplifier enable pin (V_{EN})
- Buffered, temperature compensated power detector
- 3% EVM, @19.5dBm, 64 QAM, 54 Mbps
- 30 dB Gain
- Lead Free, Halogen Free and RoHS compliant package
- 16 pin 3 mm x 3 mm x 0.9 mm QFN

Ordering Information

Part Number	Package	Remark
SE2537L	16 Pin QFN	Samples
SE2537L-R	16 Pin QFN	Tape and Reel
SE2537L-EK1	Evaluation Kit	Standard

Product Description

The SE2537L is a 5GHz power amplifier offering high linear power for wireless LAN applications. It incorporates a power detector for closed loop monitoring and control of the output power.

The SE2537L offers extreme integration for a simplified design, providing quicker time to market and higher application board production yield. The device integrates the input match, the inter-stage match, a partial output match, the power detector with 20dB of dynamic range and a 3.2GHz notch filter. Two external components are required to complete the design.

For wireless LAN applications, the device meets the requirements of IEEE802.11a and delivers approximately 19.5dBm of linear output power.

For high performance applications, the SP1,2 ports are available to connect an optional external capacitor to enhance dynamic EVM performance.

The SE2537L bias control establishes the reference voltage required for proper operation and allows enabling and disabling of the power amplifier.

Functional Block Diagram

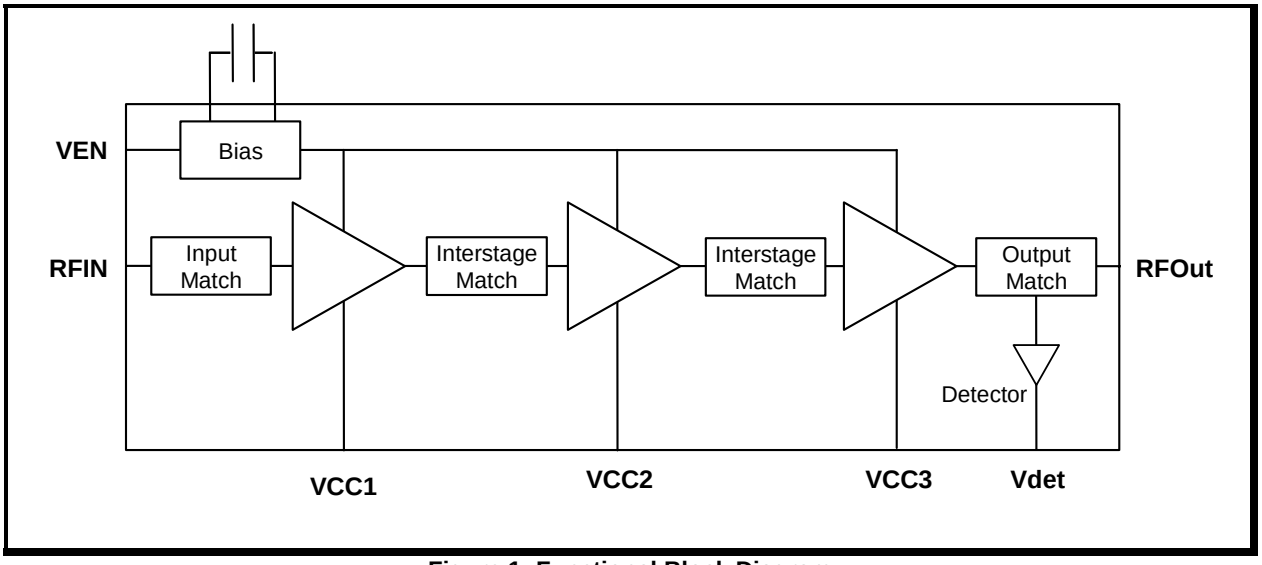


Figure 1: Functional Block Diagram

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Product Preview
The datasheet contains information from the product concept specification. SiGe Semiconductor, Inc. reserves the right to change information at any time without notification.

Preliminary Information
The datasheet contains information from the design target specification. SiGe Semiconductor, Inc. reserves the right to change information at any time without notification.

Production testing may not include testing of all parameters.

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