

Applications

- DSSS 2.4 GHz WLAN (IEEE802.11b)
- OFDM 2.4 GHz WLAN (IEEE802.11g)
- Access Points, PCMCIA, PC cards

Features

- Single 3.3 V Supply Operation
 - 21 dBm, EVM = 3 %, 802.11g, OFDM 54 Mbps
 - 24 dBm, ACPR < -32 dBc, 802.11b
- Dual Supply Operation
 - 23 dBm, EVM = 3 %, 802.11g, OFDM 54 Mbps
 - 25 dBm, ACPR < -32 dBc, 802.11b
- 32 dB Gain
- Pin for pin compatible to the SE2525L
- Integrated temperature compensated power detector
- Integrated power amplifier enable pin (V_{EN})
- Lead Free and RoHS compliant
- Small package: 16 pin 4 mm x 4 mm x 0.9 mm QFN

Product Description

The SE2527L is a 2.4 GHz power amplifier designed for use in the 2.4 GHz ISM band for wireless LAN applications. The device incorporates a power detector for closed loop monitoring of the output power.

The SE2527L also offers a high power mode by operating at 5 V. This provides an extra 2 dB of improved EVM performance.

The SE2527L includes a digital enable control for device on/off control.

The device is pin for pin compatible to SiGe's SE2524L, allowing both devices to share the same application board with only a few component changes required. This provides users with both a high and low power solution without changing the layout.

The SE2527L temperature compensated power detector is highly immune to mismatch at its output with less than 1.5 dB of variation with a 2:1 mismatch.

Ordering Information

Part Number	Package	Remark
SE2527L	16 Pin QFN	Samples
SE2527L-R	16 Pin QFN	Tape and Reel
SE2527L-AK1	Application Kit	Standard

Functional Block Diagram

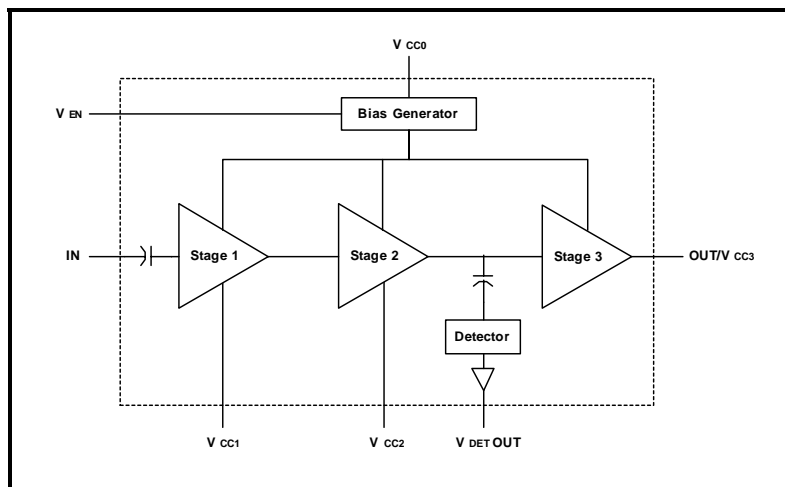


Figure 1: Functional Block Diagram

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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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