Applications

- DSSS 2.4 GHz WLAN (IEEE802.11b)
- OFDM 2.4 GHz WLAN (IEEE802.11g or IEEE801.11n)
- Access Points, PCMCIA, PC cards

Features

- Single 3.3 V Supply Operation
  - 19 dBm, EVM = 3 %, 802.11g, OFDM 54 Mbps
  - 23 dBm, ACPR < -32 dBc, 802.11b
- 28 dB Gain
- 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

Ordering Information

Part Number	Package	Remark
SE2590L	16 Pin QFN	Samples
SE2590L-R	16 Pin QFN	Tape and Reel
SE2590L-AK1	Application Kit	Standard

Product Description

The SE2590L 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 SE2590L includes a digital enable control for device on/off control.

The SE2590L 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.

Functional Block Diagram

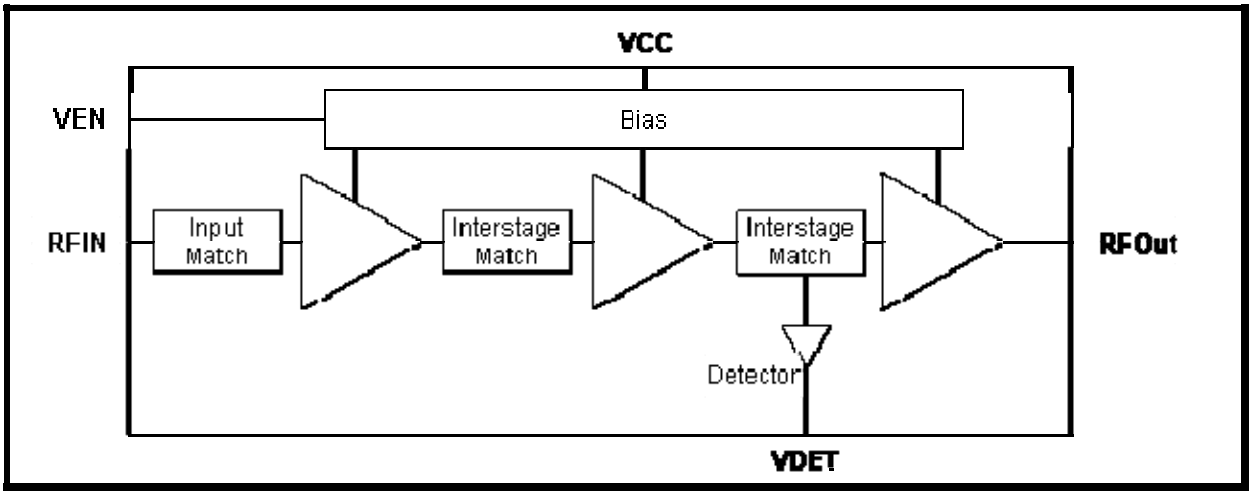

Figure 1: Functional Block Diagram

http://www.sige.com

Email: sales@sige.com

Customer Service Locations:

North America:
1050 Morrison Drive, Suite 100
Ottawa ON K2H 8K7 Canada

Phone: +1 613 820 9244
Fax: +1 613 820 4933

Hong Kong
Phone: +852 3428 7222
Fax: +852 3579 5450

San Diego
Phone: +1 858 668 3541 (ext. 226)
Fax: +1 858 668 3546

United Kingdom
Phone: +44 1279 464217
Fax: +44 1279 464201

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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