

## Applications

- DSSS 2.4 GHz WLAN (IEEE802.11b)
- OFDM 2.4 GHz WLAN (IEEE802.11g or IEEE802.11n)
- 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 (VEN)
- Lead Free, Halogen Free and RoHS compliant
- Small package: 16 pin 3 mm x 3 mm x 0.9 mm QFN

## Product Description

The SE2598L 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 SE2598L includes a digital enable control for device on/off control.

The SE2598L 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        |
|-------------|-----------------|---------------|
| SE2598L     | 16 Pin QFN      | Samples       |
| SE2598L-R   | 16 Pin QFN      | Tape and Reel |
| SE2598L-AK1 | Application Kit | Standard      |

## Functional Block Diagram

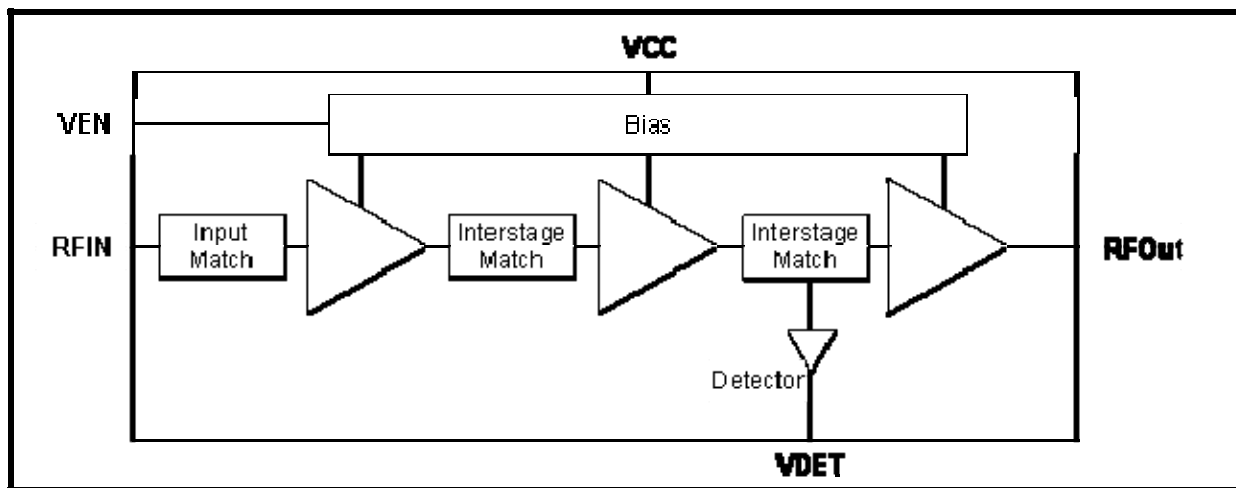


Figure 1: Functional Block Diagram

<http://www.sige.com>

Email: [sales@sige.com](mailto: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.

Information furnished is believed to be accurate and reliable and is provided on an "as is" basis. SiGe Semiconductor, Inc. assumes no responsibility or liability for the direct or indirect consequences of use of such information nor for any infringement of patents or other rights of third parties, which may result from its use. No license or indemnity is granted by implication or otherwise under any patent or other intellectual property rights of SiGe Semiconductor, Inc. or third parties. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. SiGe Semiconductor, Inc. products are NOT authorized for use in implantation or life support applications or systems without express written approval from SiGe Semiconductor, Inc.

Copyright 2009 SiGe Semiconductor, Inc.  
All Rights Reserved

