



DATA SHEET
SE2594L: Dual-Band 802.11a/b/g/n Wireless LAN Front-End
Preliminary Information

Applications

- IEEE802.11b DSSS WLAN
- IEEE802.11g OFDM WLAN
- IEEE802.11a OFDM WLAN
- IEEE802.11n WLAN
- Access Points, PCMCIA, PC cards

Features

- All RF ports matched to 50 Ω
- Integrated 2.4 GHz PA, 5 GHz PA, TX Filter, T/R switches and diplexers
- Integrated Power Detector for each TX Chain
- 21 dBm O/P Power, 802.11b, 11 Mbps, ACPR = 35 dBc
- 18 dBm @ 3.0 % EVM, 802.11g, 54 Mbits
- 16.5 dBm @ 3.0 % EVM, 802.11a, 54 Mbits
- Single supply voltage: 3.3 V \pm 10 %
- Lead free, Halogen free, RoHS compliant, MSL 3
- 5mm x 5mm x 0.9mm, QFN Package

Ordering Information

Part No.	Package	Remark
SE2594L	32 pin QFN	Samples
SE2594L-R	32 pin QFN	Tape and Reel
SE2594L-EK1	N/A	Evaluation kit

Product Description

The SE2594L is a complete 802.11a/b/g/n WLAN RF front-end module providing all the functionality of the power amplifiers, filtering, power detector, T/R switch, diplexers and associated matching. The SE2594L provides a complete 2.4 GHz and 5 GHz WLAN RF solution from the output of the transceiver to the antenna in an ultra compact form factor.

Designed for ease of use, all RF ports are matched to 50 Ω to simplify PCB layout and the interface to the transceiver RFIC. The SE2594L also includes a transmitter power detector for each band and transmit chain with 20 dB of dynamic range for each transmit chain. Each transmit chain has a separate digital enable control for transmitter power ramp on/off control. The power ramp rise/fall time is less than 0.7 μ sec.

The device also provides a notch filter from 3.260-3.267 GHz and 3.28-3.89 GHz prior to the input of each 2.4 GHz and 5 GHz power amplifiers, respectively.

The SE2594L packaged in 5mm x 5mm x 0.9mm, Halogen free, Lead free, ROHS compliant, MSL 3 QFN package.

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Functional Block Diagram

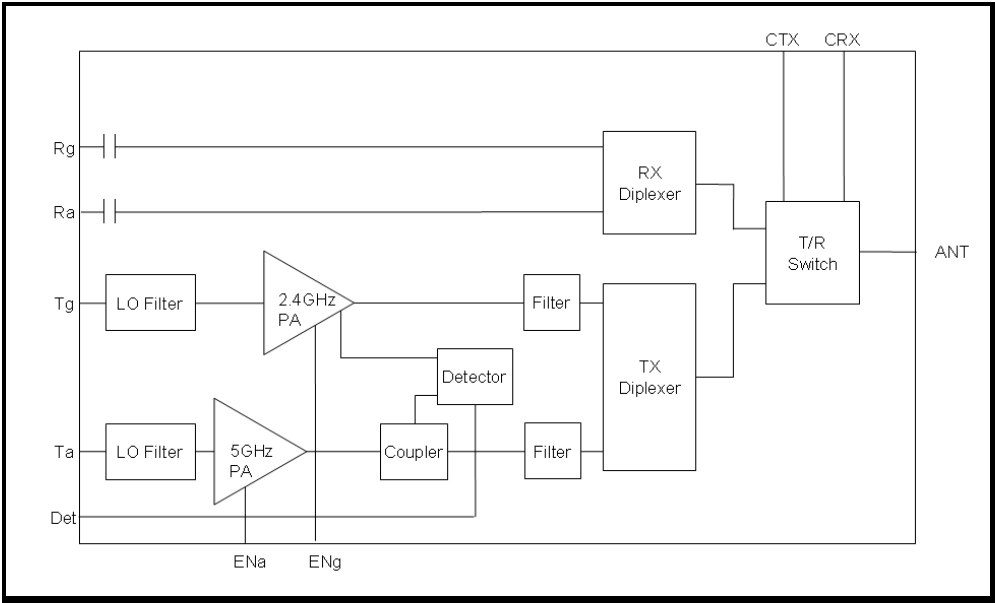


Figure 1: SE2594L Functional Block Diagram

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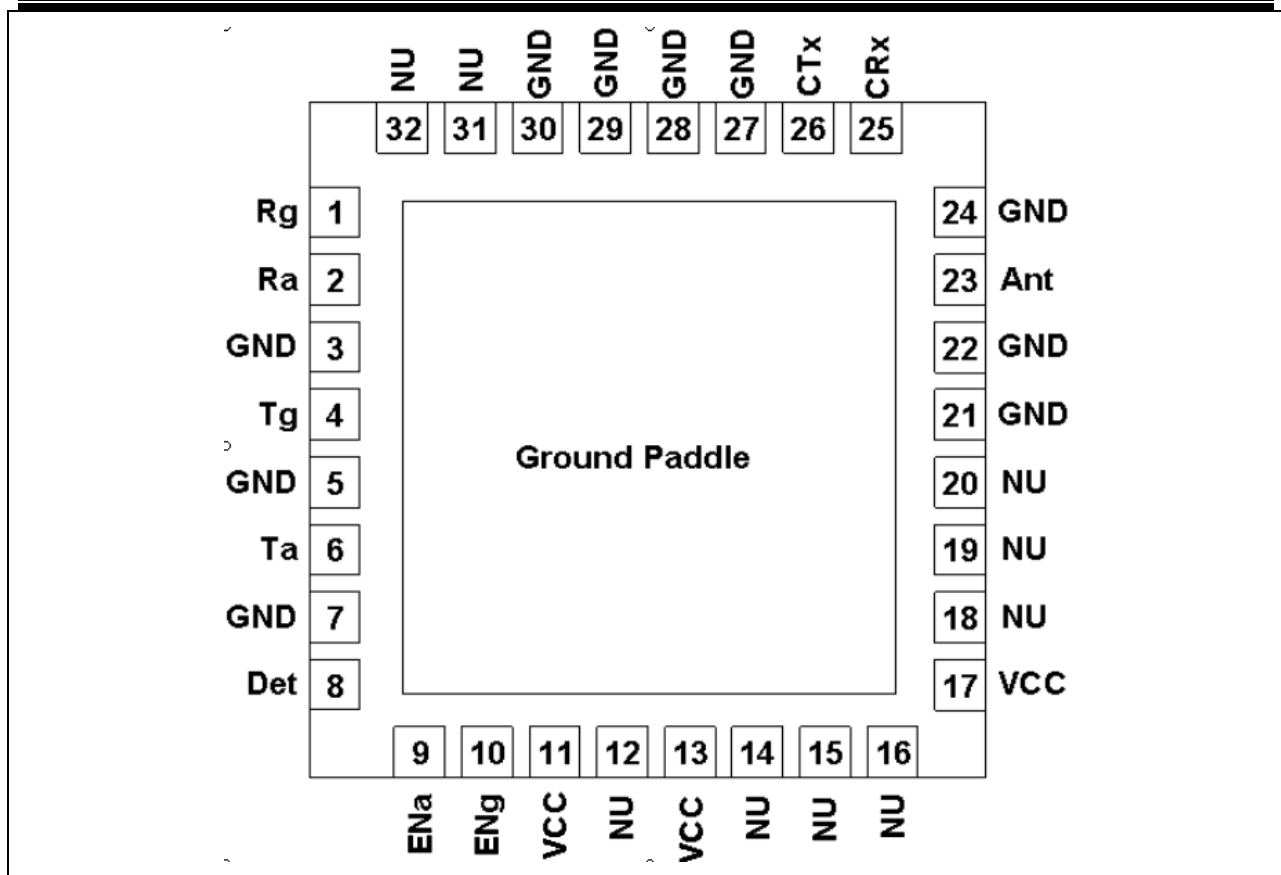


Figure 2: SE2594L Pin Out (Top View Through Package)

Pin Out Description

Pin No.	Name	Description
1	Rg	2.4 GHz RF Receive Output, DC blocked
2	Ra	5 GHz RF Receive Output, DC blocked
3	GND	Ground
4	Tg	2.4 GHz RF Transmit Input, DC short to GND
5	GND	Ground
6	Ta	5 GHz RF Transmit Input, DC short to GND
7	GND	Ground
8	Det	2.4/5 GHz Power Detector Output
9	ENa	5 GHz Power Amplifier Enable
10	ENg	2.4 GHz Power Amplifier Enable
11	VCC	Supply Voltage
12	NU	No Used
13	VCC	Supply Voltage
14	NU	Not Used

Pin No.	Name	Description
17	VCC	Supply Voltage
18	NU	Not Used
19	NU	Not Used
20	NU	Not Used
21	GND	Ground
22	GND	Ground
23	Ant	Antenna
24	GND	Ground
25	CRx	Receive Switch Control
26	CTx	Transmit Switch Control
27	GND	Ground
28	GND	Ground
29	GND	Ground
30	GND	Ground

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15	NU	Not Used	31	NU	Not Used
16	NU	Not Used	32	NU	Not Used

Absolute Maximum Ratings

These are stress ratings only. Exposure to stresses beyond these maximum ratings may cause permanent damage to, or affect the reliability of the device. Avoid operating the device outside the recommended operating conditions defined below. This device is ESD sensitive. Handling and assembly of this device should be at ESD protected workstations.

Symbol	Definition	Min.	Max.	Unit
V _{CC}	Supply Voltage	-0.3	4.0	V
PU	ENa, ENg	-0.3	4.0	V
TX _{RF}	Ta, Tg, ANT terminated in 6:1 load or better	-	12.0	dBm
T _A	Operating Temperature Range	-40	85	°C
T _{STG}	Storage Temperature Range	-40	150	°C

Recommended Operating Conditions

Symbol	Parameter	Min.	Typ.	Max.	Unit
V _{CC}	Supply Voltage	3.0	3.3	3.6	V
T _A	Ambient Temperature	-40	25	85	°C

DC Electrical Characteristics

Conditions: V_{CC} = 3.3 V, T_A = 25 °C, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board (de-embedded to device), all unused ports terminated with 50 ohms, unless otherwise noted

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
I _{CC-G}	Total 802.11g Transmit Supply Current	P _{OUT} = 18 dBm, 54 Mbps OFDM signal, 64 QAM ENg = 3.3 V, ENa = 0 V	-	150	-	mA
I _{CC-B}	Total 802.11b Transmit Supply Current	P _{OUT} = 21 dBm, 11 Mbps CCK signal, BT = 0.45, ENg = 3.3 V, ENa = 0 V	-	180	-	mA
I _{CC-A}	Total 802.11a Transmit Supply Current	P _{OUT} = 16 dBm, 54 Mbps OFDM signal, 64 QAM, ENa = 3.3 V, ENg = 0 V	-	220	250	mA
I _{CC-OFF}	Total Supply Current	No RF, ENg = ENa = 0 V	-	2	100	µA

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Logic Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board (de-embedded to device), all unused ports terminated with 50 ohms, unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
V_{ENH}	Logic High Voltage for ENG, ENa (Module On)	-	1.8	-	V_{CC}	V
V_{ENL}	Logic Low Voltage ENG, ENa (Module Off)	-	0	-	0.5	V
I_{ENH}	Input Current Logic High Voltage (ENG, ENa)	-	-	350	400	μA
I_{ENL}	Input Current Logic Low Voltage (ENG, ENa)	-	-	0.2	-	μA

Switch Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board (de-embedded to device), all unused ports terminated with 50 ohms, unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
V_{CTL_ON}	Control Voltage (On State)	-	3.0	-	3.6	V
V_{CTL_OFF}	Control Voltage (OFF State)	-	0.0	-	0.2	V
SW_{ON}	Low Loss Switch Control Voltage	High State = $V_{CTL_ON} - V_{CTL_OFF}$	2.8	-	V_{CC}	V
SW_{OFF}	High Loss Switch Control Voltage	Low State = $V_{CTL_OFF} - V_{CTL_OFF}$	0	-	0.3	V
I_{CTL_ON}	Switch Control Bias Current (RF Applied)	On pin (CTx, CRx) being driven high. RF Applied	-	-	100	μA
I_{CTL_ON}	Switch Control Bias Current (No RF)	On pin (CTx, CRx) being driven high. No RF	-	-	30	μA
C_{CTL}	Control Input Capacitance	-	-	-	100	pF

Switch Control Logic Table

CTx	CRx	Tg, Ta – ANT	Rg, Ra – ANT
SW_{ON}	SW_{OFF}	ON	OFF
SW_{OFF}	SW_{ON}	OFF	ON
SW_{OFF}	SW_{OFF}	OFF	OFF
All Other States		Unsupported Switch State	

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2.4 GHz AC Electrical Characteristics

2.4 GHz Transmit Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $ENg = CTx = 3.3\text{ V}$, $ENa = CRx = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board, all unused ports terminated with 50 ohms, unless otherwise noted.

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
F_{IN}	Frequency Range	-	2400	-	2500	MHz
$P_{802.11g}$	Output power	54 Mbps OFDM signal, 64QAM, EVM = 3.0 %	-	18	-	dBm
$P_{802.11b}$	Output power	11 Mbps CCK signal, BT = 0.45 ACPR($\pm 11\text{MHz offset}$) < -35 ACPR($\pm 22\text{MHz offset}$) < -55	-	21	-	dBm
P_{1dB}	P1dB	-	23	24	-	dBm
S_{21}	Small Signal Gain	-	25	-	30	dB
ΔS_{21}	Small Signal Gain Variation Over Band	-	-	1.0	2.0	dB
$S_{21.6}$	Gain at Ref-VCO $\div 2$	1600 MHz	-	-	21	dB
$S_{21.3.2}$	Gain at Ref-VCO	3216.00 to 3256.00 MHz 3262.00 to 3263.21 MHz 3269.33 to 3276.00 MHz 3282.67 to 3312.00 MHz	-	-	9 4 9 17	dB
2f,3f	Harmonics	$P_{out} \leq 21\text{ dBm}$, 1Mbps, CCK	-	-	-45.2	dBm/MHz
t_{dr}, t_{df}	Delay and rise/fall Time	50 % of V_{EN} edge and 90/10 % of final output power level	-	-	0.4	μs
S_{11}	Input Return Loss	-	10	15	-	dB
STAB	Stability	CW, $P_{OUT} = 21\text{ dBm}$ 0.1 GHz – 21 GHz Load VSWR = 6:1	All non-harmonically related outputs less than -42 dBm/MHz			
R_u	Ruggedness	$T_g = 12\text{dBm}$, ANT load varies over 10:1 VSWR, $ENg = 0$ or 3.3 V	No Irreversible damage			

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2.4 GHz Receive Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $CR_X = 3.3\text{ V}$, $ENG = EN_A = CT_X = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board (de-embedded to device), all unused ports terminated with 50 ohms, unless otherwise noted.

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
F _{OUT}	Frequency Range	-	2400	-	2500	MHz
R _{XIL}	Insertion Loss	-	-	1.5	1.9	dB
R _{XRL}	Return Loss	-	10	15	-	dB
T _{RISOL-2}	Rx Leakage	CT _X = SWON, CR _X = SWOFF, Device transmitting (ENG = 3.3 V) 18.0 dBm @ ANT, Power measured @ RX_OUT	-	-	0	dBm
ANTR _{ISOL}	Antenna to Rx isolation	Small signal input into ANT, Device not transmitting, Power measured @ R _g , CT _X (Ant to Rx Iso) = SWON, CR _X = SWOFF	18	-	28	dB

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5 GHz AC Electrical Characteristics

5 GHz Transmit Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, E_{Na} and $CTx = 3.3\text{ V}$, $ENg = CRx = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board, all unused ports terminated with 50 ohms, unless otherwise noted.

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
F_{IN}	Frequency Range	-	4900	-	5875	MHz
$P_{802.11a}$	Nominal Output Power	54 Mbps OFDM signal, 64 QAM, EVM = 3.0 %	-	16.5	-	dBm
P_{1dB}	P1dB	-	21	22.5	-	dBm
S_{21}	Small Signal Gain	-	23	-	30	dB
ΔS_{21}	Small Signal Gain Variation Over 40 MHz Channel		-	-	0.5	dB
	Small Signal Gain Variation Over sub-bands	4.9 – 5.1 GHz 5.15 – 5.7 GHz 5.7 – 5.85 GHz	-	1	3	dB
$S_{21}1.9$	Gain at Ref-VCO $\div 2$	1942 MHz	-	-	14	dB
$S_{21}3.2$	Gain at Ref-VCO	3200 to 3900 MHz	-	-	5.5	dB
2f,3f	Harmonics @ 16dBm, 54Mbps, 802.11a	4900 – 5850 MHz	-	-	-48.2	dBm/MHz
t_{dr}, t_{df}	Delay and rise/fall Time	50 % of V_{EN} edge and 90/10 % of final output power level	-	-	0.4	μs
S_{11}	Input Return Loss	-	-	6	-	dB
STAB	Stability	64 QAM, $P_{OUT} = 16\text{ dBm}$ 0.1 GHz – 21 GHz Load VSWR = 6:1	All non-harmonically related outputs less than -42 dBm/MHz			
R_u	Ruggedness	$TXa = 12\text{ dBm}$, ANT load varies over 10:1 VSWR, $E_{Na} = 0$ or 3.3 V	No Irreversible damage			

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5 GHz Receive Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $CR_X = 3.3\text{ V}$, $ENg = ENa = CTx = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board (de-embedded to device), all unused ports terminated with 50 ohms, unless otherwise noted.

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
F _{OUT}	Frequency Range	-	4900	-	5875	MHz
RX _{IL}	Insertion Loss	-	-	2	2.5	dB
RX _{RL}	Return Loss	-	10	15	-	dB
T _{ALEAK}	Tx Power Leakage	Pout = 16 dBm, ENa = 3.3 V, CTx = 3.3 V, CRx = 0 V	-	-	0	dBm
ATT _a	Antenna to Rx isolation	Small signal input into ANT, Device not transmitting, Power measured @ RX _{RF} , CTx (Ant to Rx Iso) = SWON, CRx = SWOFF	16	-	27	dB

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2.4 GHz Power Detector Characteristic

Conditions: $V_{CC} = ENg = CTx = 3.3\text{ V}$, $CRx = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board (de-embedded to device), all unused ports terminated with $50\ \Omega$, unless otherwise noted.

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
F _{OUT}	Frequency Range	-	2400	-	2500	MHz
PDR	Power detect range, peak power	Measured at ANT	0	-	22	dBm
PDZ _{OUT}	DC Output impedance	-	-	2400	-	Ω
PDV _{P21}	Output Voltage, P _{OUT} = 21dBm	-	-	0.85	-	V
PDV _{P18}	Output Voltage, P _{OUT} = 18dBm	-	-	0.68	-	V
PDV _{pnoRF}	Output Voltage, P _{OUT} = No RF	-	-	0.30	-	V
LPF _{-3dB}	Power detect low pass filter -3dB corner frequency	Load = high impedance Typ: $1\text{ M}\Omega$	-	1500	-	KHz

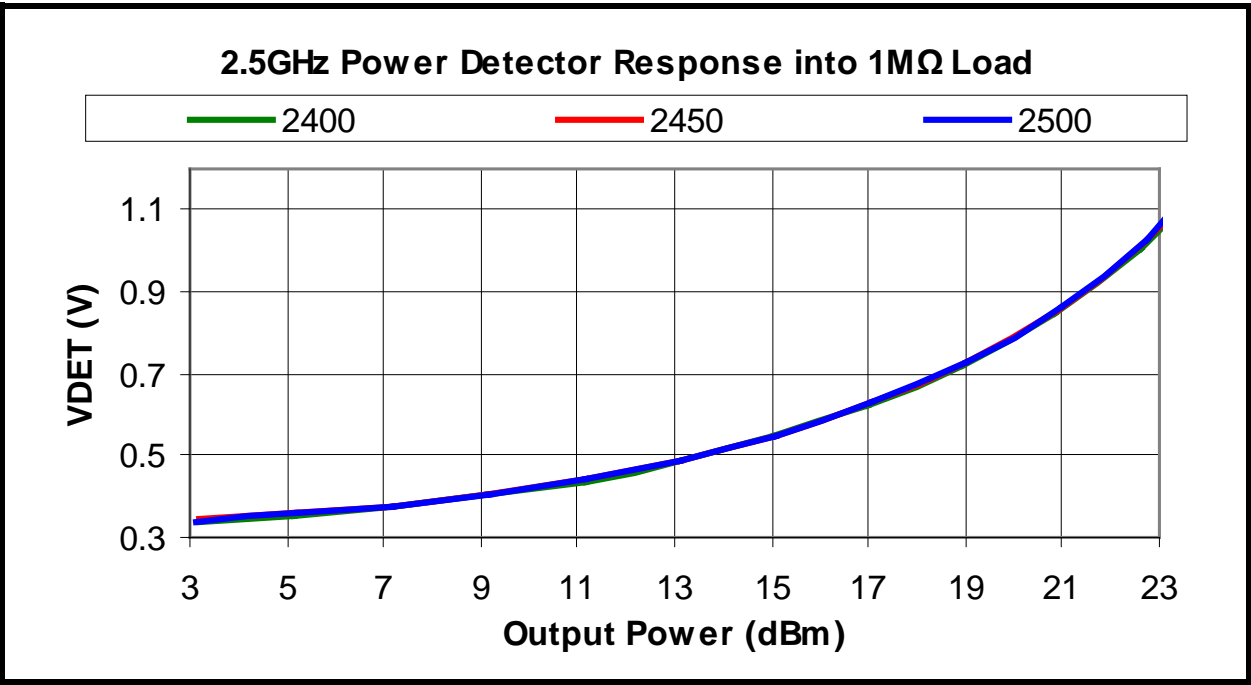


Figure 3: SE2594L Power Detector vs. Output Power over Frequency (CW Signal)

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5 GHz Power Detector Characteristic

Conditions: $V_{CC} = E_{NA} = C_{TX} = 3.3\text{ V}$, $C_{RX} = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE2594L-EV1 evaluation board (de-embedded to device), all unused ports terminated with $50\ \Omega$, unless otherwise noted.

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
F _{OUT}	Frequency Range	-	4900	-	5850	MHz
PDR	Power detect range, peak power	Measured at ANT	0	-	21	dBm
PDZ _{OUT}	DC Output impedance	-	-	2400	-	Ω
PDV _{p18}	Output Voltage, P _{OUT} = 18dBm	-	-	0.80	-	V
PDV _{p16}	Output Voltage, P _{OUT} = 16dBm	-	-	0.70	-	V
PDV _{NoRF}	Output Voltage, P _{OUT} = No RF	-	-	0.30	-	V
LPF _{-3dB}	Power detect low pass filter -3dB corner frequency	Load = high impedance Typ: 1 M Ω	-	1500	-	KHz

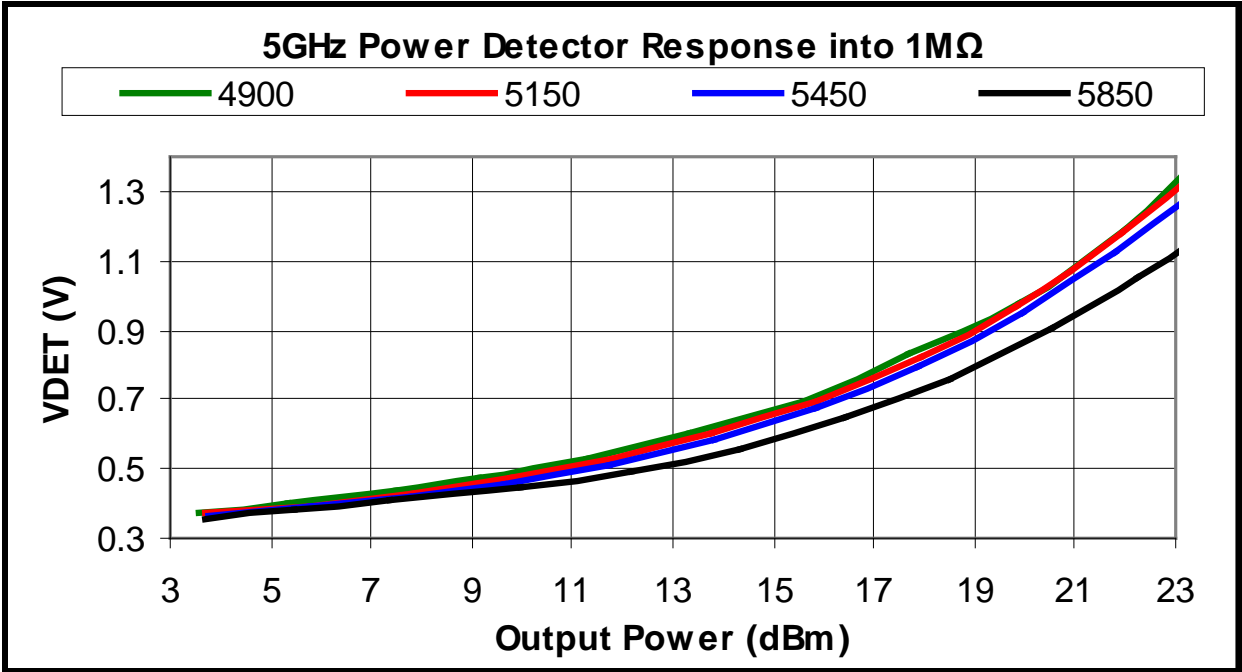


Figure 4: Preliminary SE2594L Power Detector vs. Output Power over Frequency (CW Signal)

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Package Drawing

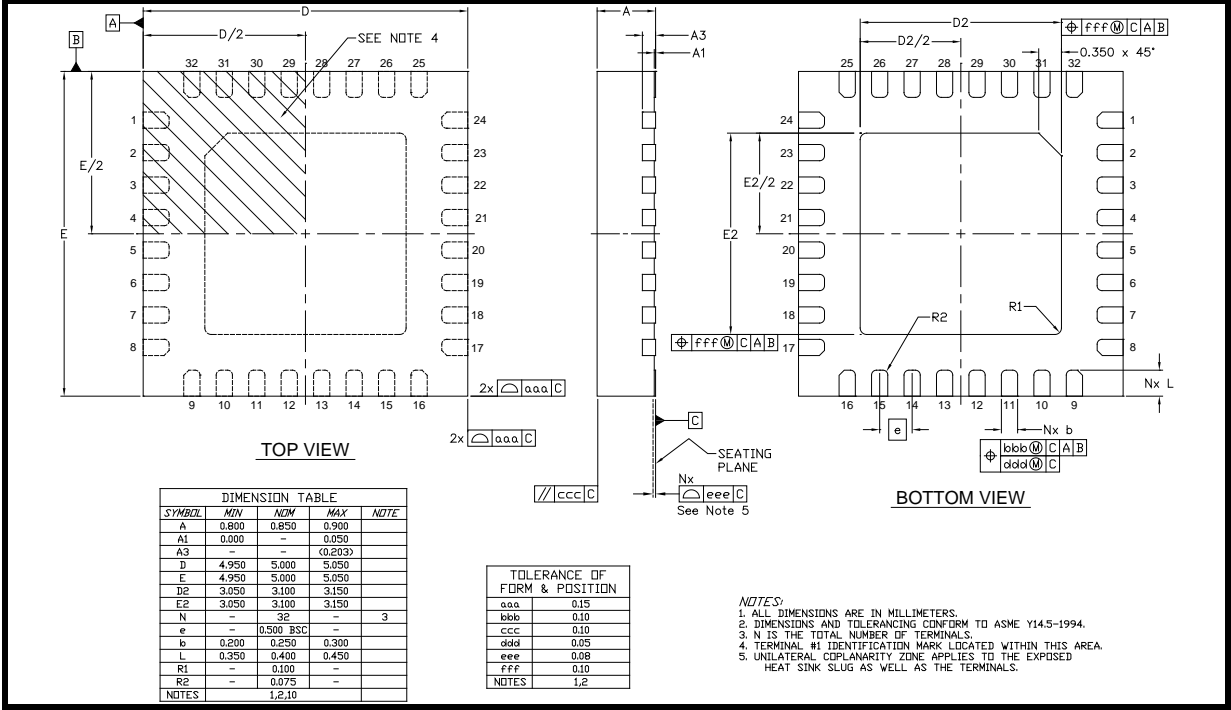


Figure 5: Package Drawing: Topside

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Recommended Land and Solder Patterns

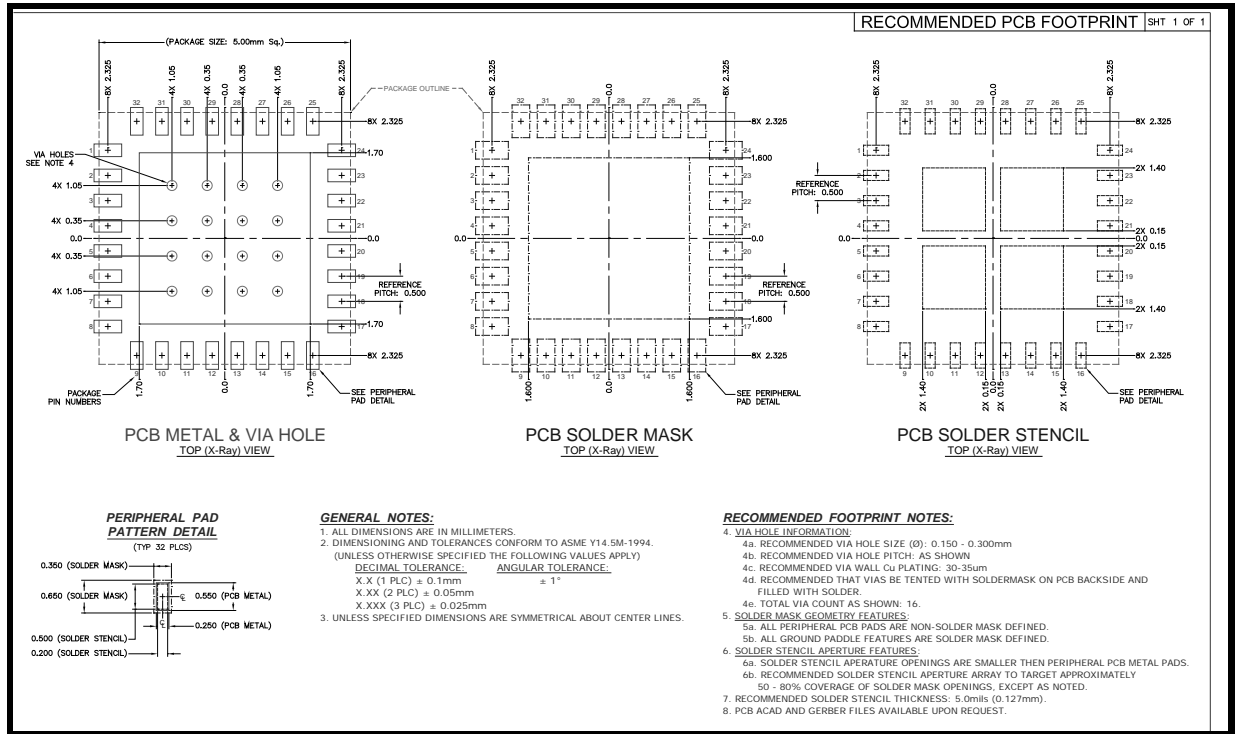


Figure 6: Recommended Land and Solder Patterns

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Package Handling Information

Because of its sensitivity to moisture absorption, instructions on the shipping container label must be followed regarding exposure to moisture after the container seal is broken, otherwise, problems related to moisture absorption may occur when the part is subjected to high temperature during solder assembly. The SE2594L is capable of withstanding a Pb free solder reflow. Care must be taken when attaching this product, whether it is done manually or in a production solder reflow environment. If the part is manually attached, precaution should be taken to insure that the device is not subjected to temperatures above its rated peak temperature for an extended period of time. For details on both attachment techniques, precautions, and handling procedures recommended, please refer to:

- “Quad Flat No-Lead Module Solder Reflow & Rework Information”, *Document Number QAD-00045*
- “Handling, Packing, Shipping and Use of Moisture Sensitive QFN”, *Document Number QAD-00044*



Caution! Class 0 ESD sensitive device

Product Branding

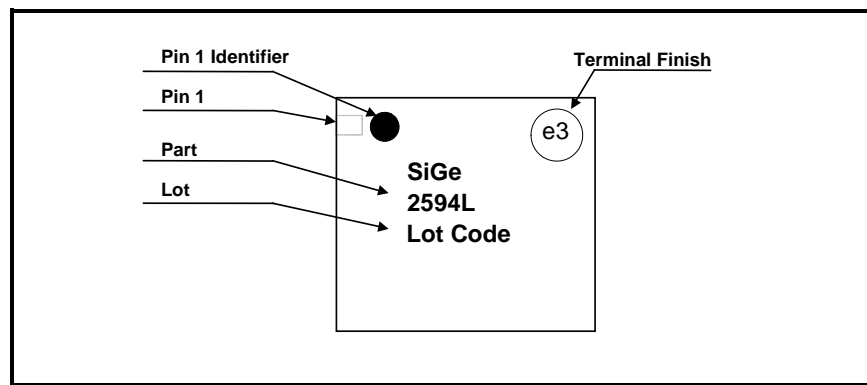


Figure 7: SE2594L Branding Information

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Tape and Reel Information

Production quantities of this product are shipped in a standard tape-and-reel format. Specific tape and reel dimensions and sizing is shown in Table 1 and Figure .

Parameter	Value
Devices Per Reel	3000
Reel Diameter	13 inches

Table 1: Tape and Reel Dimensions

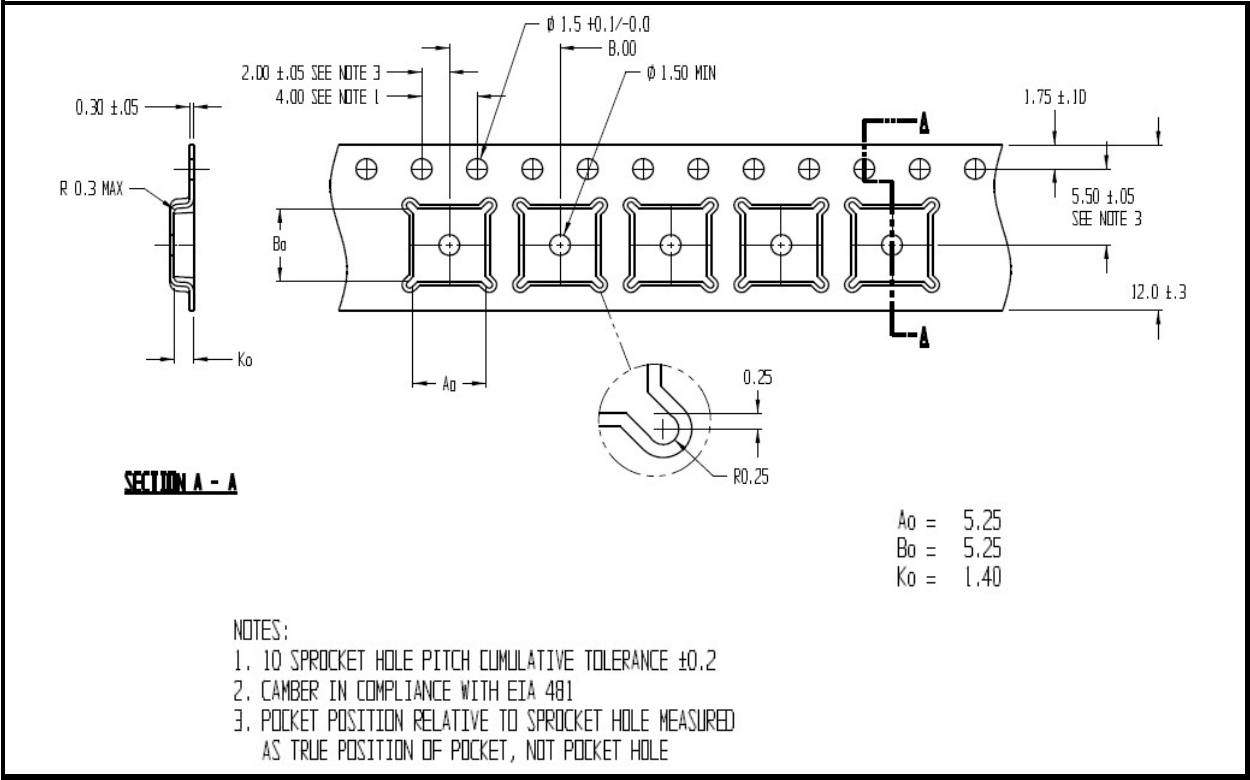


Figure 8: Detailed Tape and Reel Information (All dimensions in Millimeters)



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Document Change History

Revision	Date	Notes
1.0	Aug-20-2008	Created
1.1	Apr-9-2009	Added VCC to Pin 13 Corrected terminal finish indicator in Branding Information
1.2	Dec-8-2009	Updated per Design Validation Test.
1.3	Jan-11-2010	Updated ICC_OFF specification
1.4	Feb-11-2011	Updated for Industrial temperature range
1.5	Jun-30-2011	Corrected Recommended Operating Condition to Industrial Temperature Range
1.6	Mar-20-2012	Corrected top marking terminal finish
1.7	Mar-28-2012	Updated with Skyworks logo and disclaimer statement

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Наши преимущества:

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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