

DATA SHEET
SE5502L: 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, T/R switch, 2.5GHz LNA, 5GHz LNA
- Integrated Power Detector for each TX Chain
- 21 dBm O/P Power, 802.11b, 11 Mbits, ACPR = 35 dBc
- 18 dBm @ 3.0 % EVM, 802.11g, 54 Mbits
- 16 dBm @ 3.0 % EVM, 802.11a, 54 Mbits
- Single supply voltage: 3.3 V \pm 10 %
- Lead free, Halogen free, RoHS compliant, MSL 1
- 4mm x 4mm x 0.9mm, QFN Package

Ordering Information

Part No.	Package	Remark
SE5502L	24 pin QFN	Samples
SE5502L-R	24 pin QFN	Tape and Reel
SE5502L-EK1	N/A	Evaluation kit

Product Description

The SE5502L 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, LNA and associated matching. The SE5502L 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 SE5502L also includes a transmit power detector 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 SE5502L packaged in 4mm x 4mm x 0.9mm, Halogen free, Lead free, ROHS compliant, MSL 3 QFN package.

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Functional Block Diagram

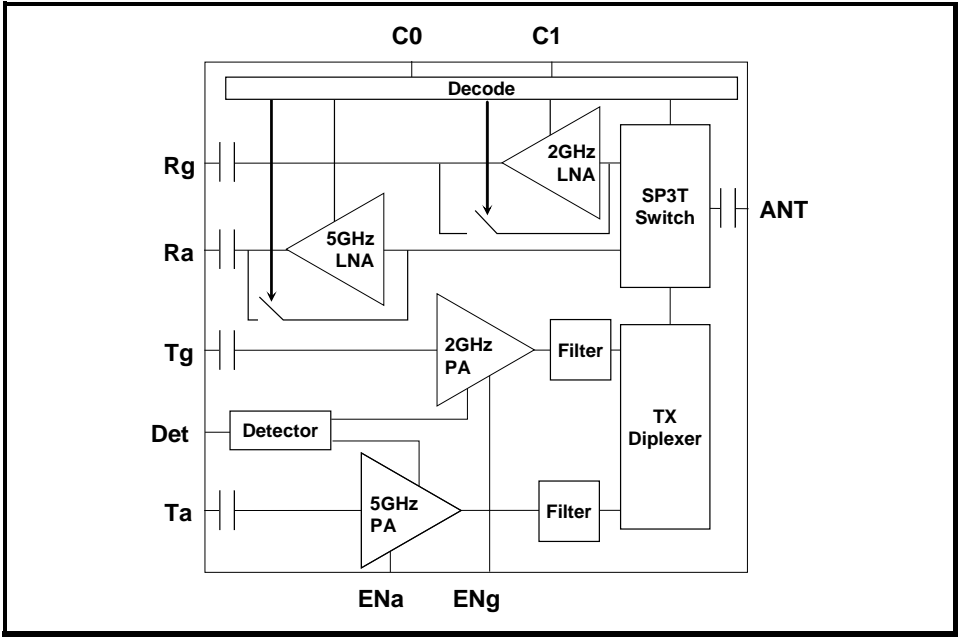


Figure 1: SE5502L Functional Block Diagram

Pin Out Diagram

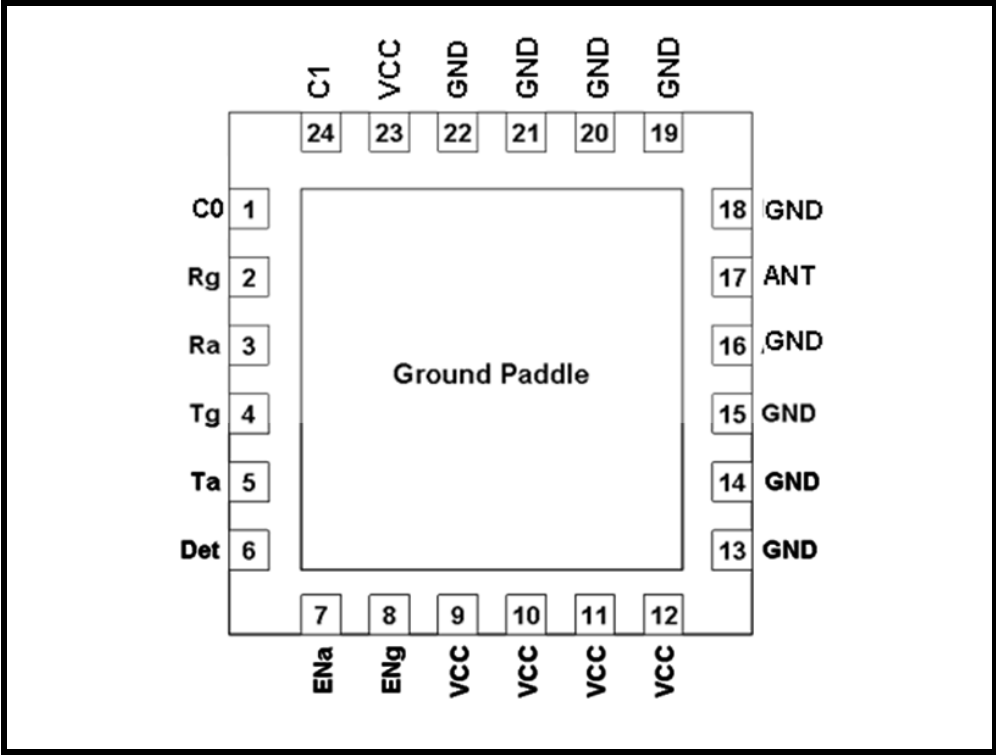


Figure 2: SE5502L Pin Out (Top View Through Package)

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Pin Out Description

Pin No.	Name	Description
1	C0	Switch Control
2	Rg	2.4 GHz RF Receive Output
3	Ra	5 GHz RF Receive Output
4	Tg	2.4 GHz RF Transmit Input
5	Ta	5 GHz RF Transmit Input
6	Det	2.4/5 GHz Power Detector Output
7	ENa	5 GHz Power Amplifier Enable
8	ENg	2.4 GHz Power Amplifier Enable
9	VCC	Supply Voltage
10	VCC	Supply Voltage
11	VCC	Supply Voltage
12	VCC	Supply Voltage

Pin No.	Name	Description
13	GND	Ground
14	GND	Ground
15	GND	Ground
16	GND	Ground
17	ANT	Antenna
18	GND	Ground
19	GND	Ground
20	GND	Ground
21	GND	Ground
22	GND	Ground
23	VCC	Supply Voltage
24	C1	Switch Control

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	3.6	V
PU	ENa, ENg, C0, C1	-0.3	3.6	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
ESD _{HBM}	JEDEC JESD22-A114 all pins	-	1000	V

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

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DC Electrical Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-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 E _{Ng} = 3.3 V, E _{Na} = 0 V, 100% duty cycle	-	150	-	mA
I _{CC-B}	Total 802.11b Transmit Supply Current	P _{OUT} = 21 dBm, 11 Mbps CCK signal, BT = 0.45, E _{Ng} = 3.3 V, E _{Na} = 0 V, 100% duty cycle	-	175	-	mA
I _{CC-A}	Total 802.11a Transmit Supply Current	P _{OUT} = 16 dBm, 54 Mbps OFDM signal, 64 QAM, E _{Na} = 3.3 V, E _{Ng} = 0 V, 100% duty cycle	-	210	-	mA
I _{CC-Rxa}	Total I _{CC} in Rx 5G band	5G LNA enabled	-	19	-	mA
I _{CC-Rxg}	Total I _{CC} in Rx 2G band	2G LNA enabled	-	18	-	mA
I _{CC-OFF}	Total Supply Current	No RF, E _{Ng} = E _{Na} = 0 V	-	50	180	μA

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PA Logic Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-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	-	0.4	V
I_{ENH}	Input Current Logic High Voltage (ENg, ENa)	-	-	50	400	μA
I_{ENL}	Input Current Logic Low Voltage (ENg, ENa)	$V_{CC} = 0.4\text{V}$	-	0	40	μA

Switch/LNA Logic Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $V_{EN} = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-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 C0, C1 (On State)	-	3.0	-	3.6	V
V_{CTL_OFF}	Control Voltage C0, C1 (OFF State)	-	0.0	-	0.4	V
I_{CTL_ON}	Switch Control Bias Current (RF Applied)	On pin (TX, RX) being driven high. RF Applied	-	-	100	μA
I_{CTL_ON}	Switch Control Bias Current (No RF)	On pin (TX, RX) being driven high. No RF	-	-	30	μA

Switch & LNA Control Logic Table

C0	C1	EnG	EnA	Tg ↔ ANT	Ta ↔ ANT	Rg ↔ ANT	Ra ↔ ANT
V_{CTL_OFF}	V_{CTL_OFF}	V_{ENH}	V_{ENL}	ON	OFF	OFF	OFF
V_{CTL_OFF}	V_{CTL_OFF}	V_{ENL}	V_{ENH}	OFF	ON	OFF	OFF
V_{CTL_OFF}	V_{CTL_ON}	V_{ENL}	V_{ENL}	OFF	OFF	LNA Bypass ON	LNA Bypass ON
V_{CTL_ON}	V_{CTL_OFF}	V_{ENL}	V_{ENL}	OFF	OFF	OFF	LNA ON
V_{CTL_ON}	V_{CTL_ON}	V_{ENL}	V_{ENL}	OFF	OFF	LNA ON	OFF
V_{CTL_OFF}	V_{CTL_OFF}	V_{ENL}	V_{ENL}	Stand By Mode, PAs and LNAs OFF – Low Current Consumption			
All Other States				Not Supported			

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2.4 GHz AC Electrical Characteristics

2.4 GHz Transmit Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $ENg = 3.3\text{ V}$, $ENa = C0 = C1 = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-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) < -56	-	21	-	dBm
P_{1dB}	P1dB	-	23	25.5	-	dBm
S_{21}	Small Signal Gain	-	25	28	30	dB
ΔS_{21}	Small Signal Gain Variation Over Band	-	-	1.0	2.0	dB
$S_{213.2}$	Gain at Ref-VCO	3200.00 to 3300.00 MHz	-	-	0	dB
2f,3f	Harmonics	$P_{out} \leq 21\text{ dBm}$ typ, 1Mbps, CCK	-	-	-45.2	dBm/MHz
t_r	Rise Time	10 % to 90% of final output power level	-	-	0.5	μs
t_{dr}, t_{df}	Delay and rise/fall Time	50 % of V_{EN} edge and 90/10 % of final output power level	-	-	0.5	μs
S_{11}	Input Return Loss	-	8	10	-	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 6:1 VSWR	No Irreversible damage			

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2.4 GHz Receive Characteristics

Conditions: $V_{CC} = C0 = C1 = 3.3\text{ V}$, $ENg = ENa = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-EV1 evaluation board, all unused ports terminated with 50 ohms, unless otherwise noted.

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
F_{OUT}	Frequency Range	-	2400	-	2500	MHz
S_{21}	Receive Gain, LNA Enabled.	2400 – 2485 MHz	10	15	-	dB
	Receive Gain, Bypass mode	$C0 = 0\text{ V}$; $C1 = 3.3\text{ V}$ 2400 – 2485 MHz	-	-7.5	-	dB
ΔS_{21}	Gain Variation	2400 – 2485 MHz, Over any 40MHz band	-	0.25	0.5	dB
NF	Noise Figure	De-embedded to device	-	2.5	2.8	dB
INT	Interferer @1710-1990MHz	With this input , IIP3 can only degrade by 1dB	-10	-	-	dBm
S_{11}	Input Return Loss	-	-	8	-	dB
IP1dB	Input P1dB	$C0 = 3.3\text{ V}$	-	-7	-	dBm
T_{EN}	Enable Time	10% to 90% of RX RF power, from time that $C0$ is at 50%	-	500	-	nsec

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5 GHz AC Electrical Characteristics

5 GHz Transmit Characteristics

Conditions: $V_{CC} = 3.3\text{ V}$, $E_{NA} = 3.3\text{ V}$, $E_{NG} = C_0 = C_1 = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-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	-	dBm
P_{1dB}	P1dB	-	21	22.5	-	dBm
S_{21}	Small Signal Gain	-	24	-	32	dB
ΔS_{21}	Small Signal Gain Variation Over 40 MHz Channel	-	-	-	0.5	dB
	Small Signal Gain Variation Over sub-bands	-	-	-	3	dB
$S_{213.2}$	Gain	3280 to 3900 MHz	-	3	9	dB
2f,3f	Harmonics	$P_{out} \leq 16\text{ dBm typ}$, 54Mbps, 802.11a OFDM	-	-	-45.2	dBm/MHz
t_r	Rise Time	10 % to 90% of final output power level	-	-	0.5	μs
t_{dr}, t_{df}	Delay and rise/fall Time	50 % of V_{EN} edge and 90/10 % of final output power level	-	-	0.5	μs
S_{11}	Input Return Loss	-	5	7	-	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	$TX_a = 12\text{ dBm}$, ANT load varies over 6:1 VSWR	No Irreversible damage			

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5 GHz Receive Characteristics

Conditions: $V_{CC} = C0 = 3.3\text{ V}$, $ENg = ENa = C1 = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-EV1 evaluation board, all unused ports terminated with 50 ohms, unless otherwise noted.

Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
F_{OUT}	Frequency Range	-	4900	-	5850	MHz
S_{21}	Receive Gain	4900 – 5850 MHz	10	12	-	dB
	Receive Gain, Bypass mode	$C0 = 0.0\text{ V}$; $C1 = 3.3\text{V}$	-	-20	-	dB
ΔS_{21}	Gain Variation	4900 – 5850 MHz, Over any 40MHz band	-	1	-	dB
NF	Noise Figure	De-embedded to device	-	2.8	3.0	dB
S_{11}	Return Loss	-	10	15	-	dB
IP1dB	Input P1dB	$C0 = 3.3\text{ V}$	-6.5	-	-	dBm
T_{EN}	Enable Time	10% to 90% of RX RF power, from time that $C0$ is at 50%	-	500	-	nsec

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2.4 GHz Power Detector Characteristic

Conditions: $V_{CC} = 3.3\text{ V}$, $ENg = 3.3\text{ V}$, $ENa = C0 = C1 = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-EV1 evaluation board, all unused ports terminated with 50 ohms, 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 ANT0 or ANT1	0	-	22	dBm
PDZ _{OUT}	DC Output impedance	-	-	2.7	3	kΩ
PDV _{P21}	Output Voltage, P _{OUT} = 21dBm	-	-	0.85	-	V
PDV _{P18}	Output Voltage, P _{OUT} = 18dBm	-	-	0.65	-	V
PDV _{pnoRF}	Output Voltage, P _{OUT} = No RF	-	-	0.35	-	V
LPF _{-3dB}	Power detect low pass filter -3dB corner frequency	Load = high impedance Typ: 500 kΩ	-	1500	-	kHz

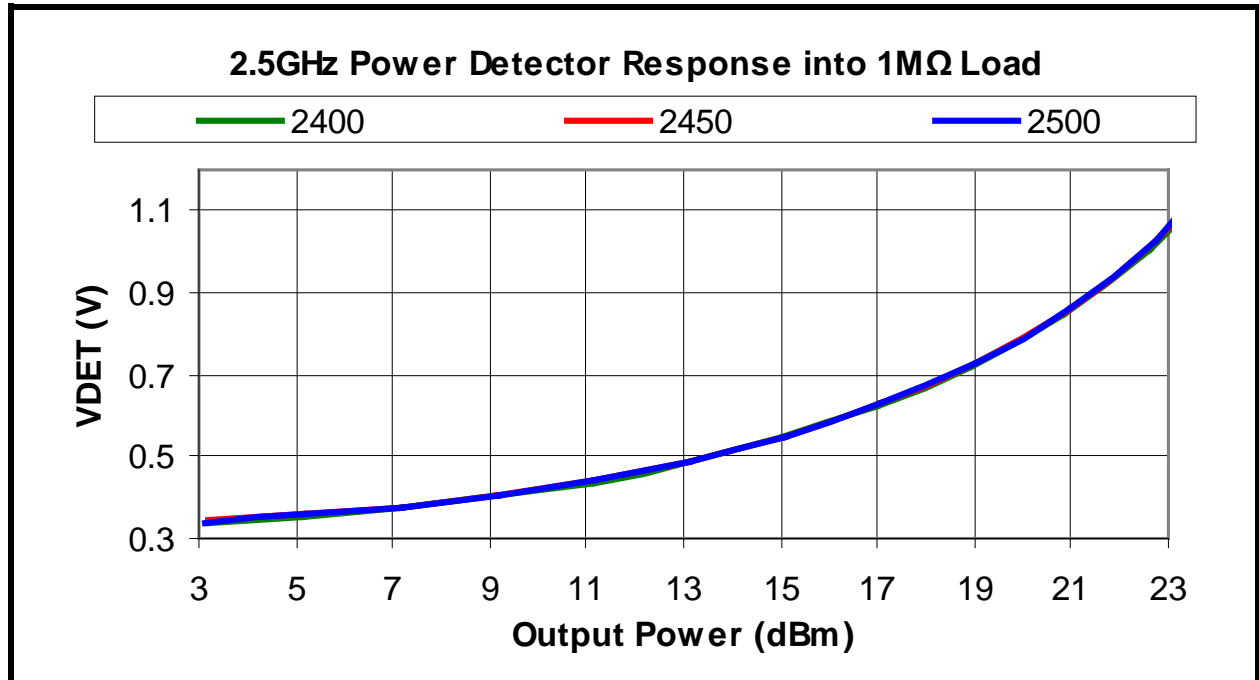


Figure 3: SE5502L Power Detector vs. Output Power over Frequency (CW Signal)

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5 GHz Power Detector Characteristic

Conditions: $V_{CC} = 3.3\text{ V}$, $E_{Na} = 3.3\text{ V}$, $E_{Ng} = C0 = C1 = 0\text{ V}$, $T_A = 25\text{ }^\circ\text{C}$, as measured on Skyworks Solutions' SE5502L-EV1 evaluation board, all unused ports terminated with 50 ohms, 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	-	-	2.7	3.0	k Ω
PDV _{p18}	Output Voltage, P _{OUT} = 18dBm	-	-	0.78	-	V
PDV _{p16}	Output Voltage, P _{OUT} = 16dBm	-	-	0.65	-	V
PDV _{NoRF}	Output Voltage, P _{OUT} = No RF	-	-	0.35	-	V
LPF _{-3dB}	Power detect low pass filter -3dB corner frequency	Load = high impedance Typ: 500 k Ω	-	1500	-	kHz

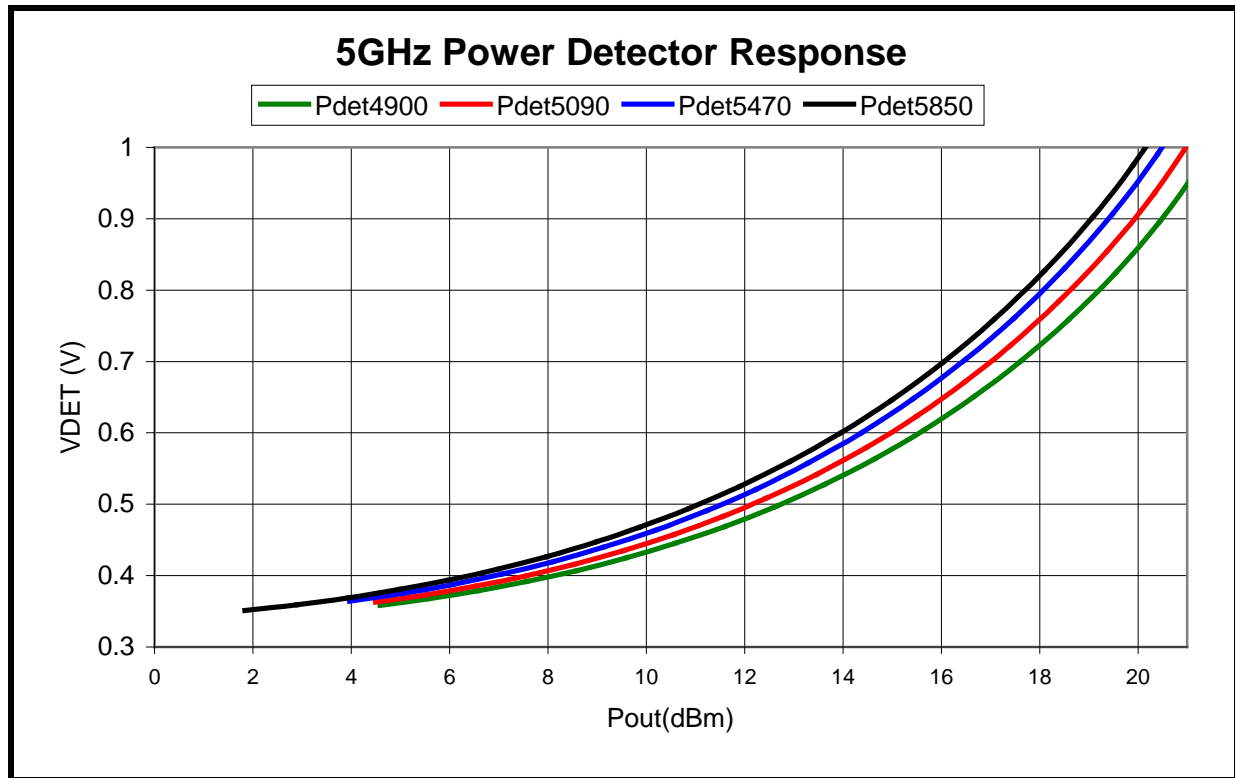


Figure 4: Preliminary SE5502L Power Detector vs. Output Power over Frequency (CW Signal)

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Package Drawing

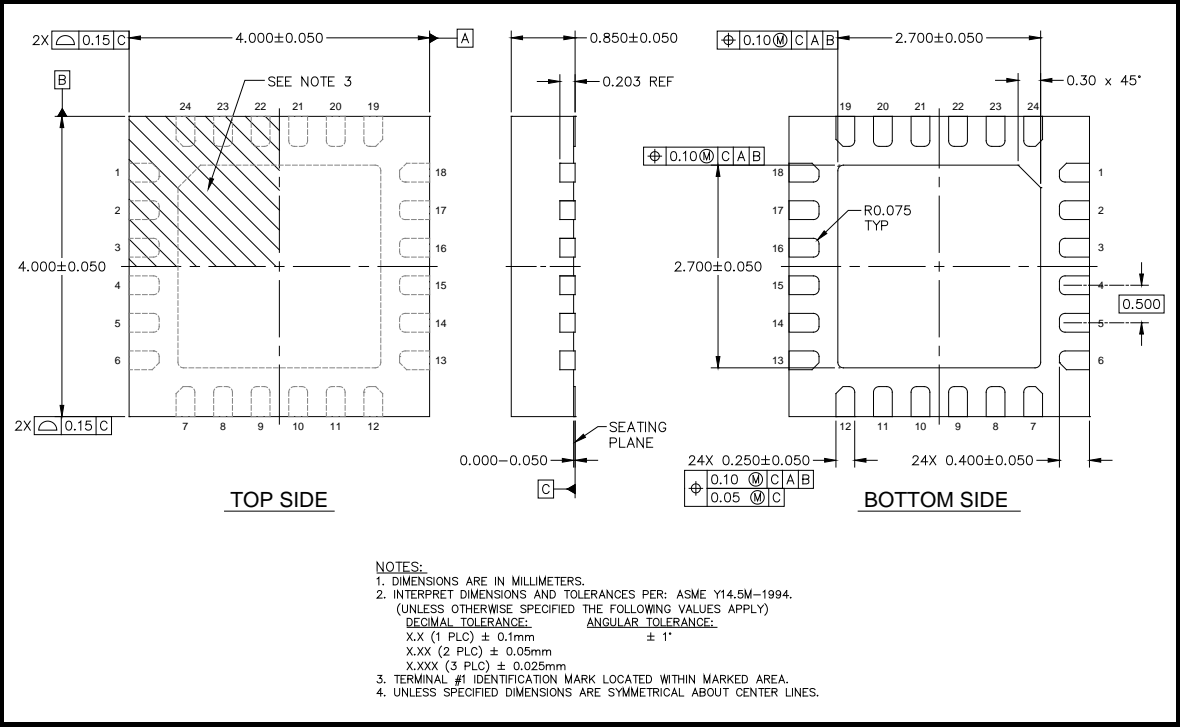


Figure 5: Package Drawing: Topside

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Recommended Land and Solder Patterns

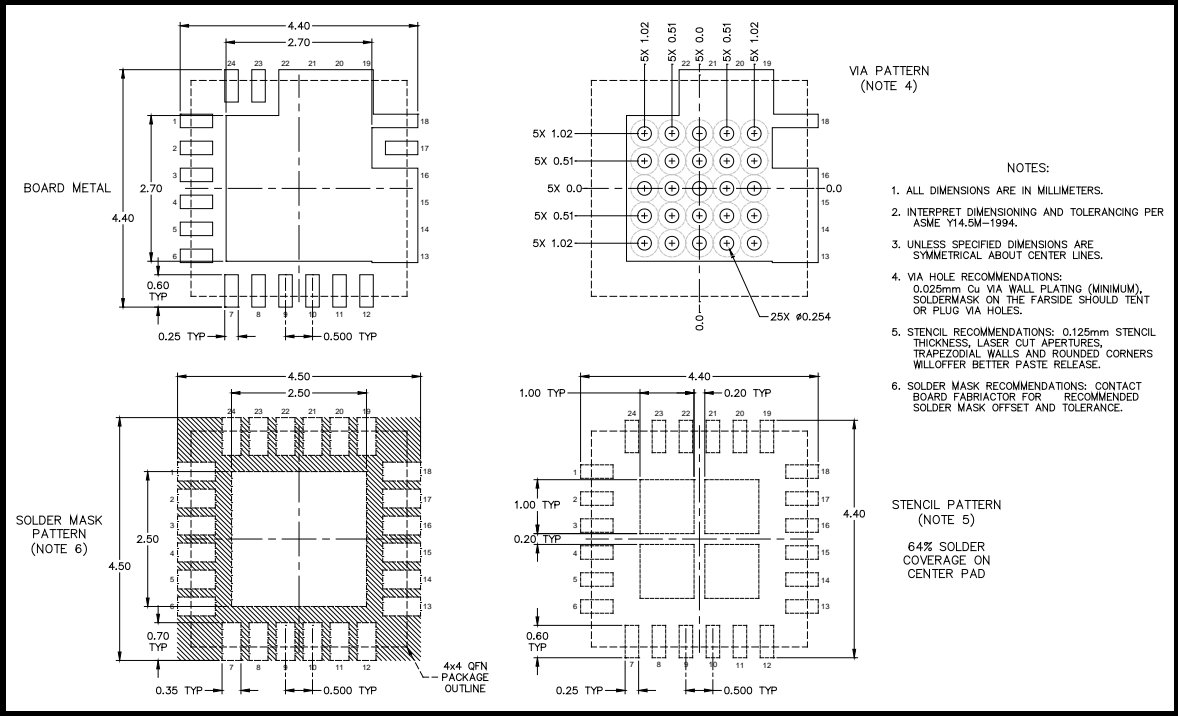


Figure 6: Recommended Land and Solder Patterns

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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 SE5502L 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 1C ESD sensitive device

Product Branding

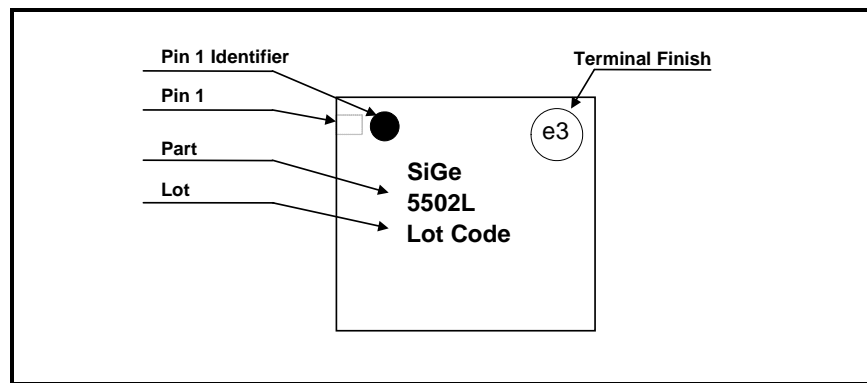


Figure 7: SE5502L Branding Information

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Tape and Reel Information

Parameter	Value
Devices Per Reel	3000
Reel Diameter	13 inches
Tape Width	12 millimeters

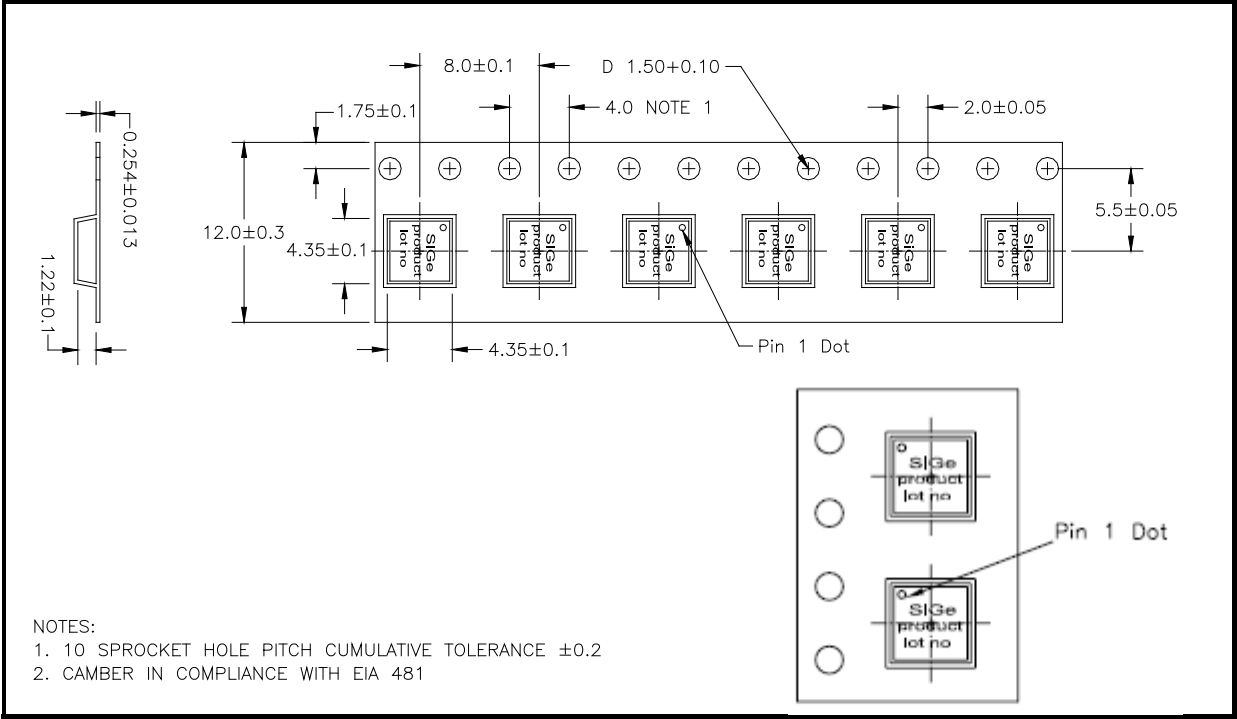


Figure 8: Detailed Tape and Reel Information (All dimensions in Millimeters)



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Document Change History

Revision	Date	Notes
1.0	Aug 25, 2009	Created
1.1	Feb 22, 2010	Updated
1.2	Jul 12, 2010	Updated switch control table and corrected block diagram
1.3	Sep 18, 2010	Updated 2GHz LNA gain variation over band. Updated 5GHz TX gain min spec Updated EN high current consumption.
1.4	Oct 7, 2010	Added "Stand By" mode setting to switch control logic table
1.5	Jan 27, 2011	Updated MSL rating to MSL1 Updated ESD rating to Class 1C
1.6	Apr 9, 2011	Updated to Industrial Temperature Range
1.7	Feb 17, 2012	Updated marking diagram
1.8	Apr 03, 2012	Updated with Skyworks logo and disclaimer statement

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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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- 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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