BGA2867

MMIC wideband amplifier

Rev. 5 — 3 October 2016

Product data sheet

1. Product profile

1.1 General description

Silicon Monolithic Microwave Integrated Circuit (MMIC) wideband amplifier with internal matching circuit in a 6-pin SOT363 plastic SMD package.

1.2 Features and benefits

- Internally matched to 50 Ω
- A gain of 26.4 dB at 2150 MHz
- Output power at 1 dB gain compression = 8 dBm
- Supply current = 21.7 mA at a supply voltage of 5.0 V
- Reverse isolation > 37 dB up to 2150 MHz
- Good linearity with low second order and third order products
- Noise figure = 3.6 dB at 950 MHz
- Unconditionally stable (K > 1)
- No output inductor required

1.3 Applications

- LNB IF amplifiers
- General purpose low noise wideband amplifier for frequencies between DC and 2.2 GHz

2. Pinning information

Table 1. Pinning

Pin	Description	Simplified outline	Graphic symbol
1	V _{CC}		
2, 5	GND2		
3	RF_OUT		6-
4	GND1	0	4 2,5
6	RF_IN	□1 □2 □3	4 2,5 /// /// sym052
			3/11002



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3. Ordering information

Table 2. Ordering information

Type number	Package	Package						
	Name	Description	Version					
BGA2867	-	plastic surface-mounted package; 6 leads	SOT363					

4. Marking

Table 3. Marking

Type number	Marking code	Description
BGA2867	LP*	* = - : made in Hong Kong
		* = p : made in Hong Kong
		* = W : made in China
		* = t : made in Malaysia

5. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage	RF input AC coupled	-0.5	+7.0	V
I _{CC}	supply current		-	36	mA
P _{tot}	total power dissipation	T _{sp} = 90 °C	-	200	mW
T _{stg}	storage temperature		-40	+125	°C
Tj	junction temperature		-	125	°C
P _{drive}	drive power		-	+10	dBm

6. Thermal characteristics

Table 5. Thermal characteristics

Symbol	Parameter	Conditions	Тур	Unit
R _{th(j-sp)}	thermal resistance from junction to solder point	$P_{tot} = 200 \text{ mW}; T_{sp} = 90 ^{\circ}\text{C}$	300	K/W

7. Characteristics

Table 6. Characteristics

 $V_{CC} = 5 \text{ V; } Z_S = Z_L = 50 \Omega; P_i = -34 \text{ dBm; } T_{amb} = 25 \text{ °C; measured on demo board; unless otherwise specified.}$

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CC}	supply voltage		4.5	5.0	5.5	V
I _{CC}	supply current		20.1	21.7	23.2	mΑ

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 Table 6.
 Characteristics ...continued

 $V_{CC} = 5 \text{ V; } Z_{S} = Z_{L} = 50 \text{ } \Omega; P_{i} = -34 \text{ dBm; } T_{amb} = 25 \text{ } ^{\circ}\text{C; } measured on demo board; unless otherwise specified.}$

$\begin{array}{c} G_p & \text{power gain} & \begin{array}{c} f = 250 \text{ MHz} \\ \hline f = 950 \text{ MHz} \\ \hline f = 2150 \text{ MHz} \\ \end{array} \\ RL_{in} & \text{input return loss} & \begin{array}{c} f = 250 \text{ MHz} \\ \hline f = 250 \text{ MHz} \\ \hline f = 250 \text{ MHz} \\ \hline f = 2150 \text{ MHz} \\ \end{array} \\ RL_{out} & \text{output return loss} & \begin{array}{c} f = 250 \text{ MHz} \\ \hline f = 250 \text{ MHz} \\ \hline \end{array}$	25.8 26.4 24.9 19 18 19 13 17	26.3 27.1 26.4 21 20 25 17	26.9 27.8 27.9 23 22 31	dB dB dB dB dB
	24.9 19 18 19 13	26.4 21 20 25	27.9 23 22	dB dB dB
$ \begin{array}{c} {\sf RL_{in}} \\ {\sf Input \ return \ loss} \\ \\ \\ {\sf Input \ return \ loss} \\ \\ \\ {\sf Input \ return \ loss} \\ \\ \\ {\sf Input \ return \ loss} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	19 18 19 13 17	21 20 25	23 22	dB dB
f = 950 MHz f = 2150 MHz	18 19 13 17	20 25	22	dB
f = 2150 MHz	19 13 17	25		
	13 17		31	dB
RL out output return loss f = 250 MHz	17	17		ab
			21	dB
f = 950 MHz	12	18	19	dB
f = 2150 MHz	12	14	17	dB
ISL isolation f = 250 MHz	44	64	84	dB
f = 950 MHz	44	46	48	dB
f = 2150 MHz	34	37	39	dB
NF noise figure f = 250 MHz	3.2	3.7	4.2	dB
f = 950 MHz	3.2	3.6	4.1	dB
f = 2150 MHz	3.3	3.8	4.2	dB
B _{-3dB} -3 dB bandwidth 3 dB below gain at 1 GHz	2.8	3	3.2	GHz
K Rollett stability factor f = 250 MHz	29	36	38	
f = 950 MHz	3.5	4.5	4.5	
f = 2150 MHz	1	1.8	2.8	
P _{L(sat)} saturated output power f = 250 MHz	8	9	9	dBm
f = 950 MHz	7	8	10	dBm
f = 2150 MHz	5	6	7	dBm
P _{L(1dB)} output power at 1 dB gain compression f = 250 MHz	6	7	8	dBm
f = 950 MHz	5	7	8	dBm
f = 2150 MHz	4	5	6	dBm
$IP3_I$ input third-order intercept point $P_{drive} = -40 \text{ dBm (for each tone)}$				
$f_1 = 250 \text{ MHz}; f_2 = 251 \text{ MHz}$	-7	- 5	-3	dBm
$f_1 = 950 \text{ MHz}; f_2 = 951 \text{ MHz}$	-11	-8	-6	dBm
$f_1 = 2150 \text{ MHz}; f_2 = 2151 \text{ MHz}$	-16	-13	-10	dBm
IP3 _O output third-order intercept point $P_{drive} = -40 \text{ dBm (for each tone)}$				
$f_1 = 250 \text{ MHz}; f_2 = 251 \text{ MHz}$	19	21	23	dBm
$f_1 = 950 \text{ MHz}; f_2 = 951 \text{ MHz}$	17.5	19.5	21.5	dBm
$f_1 = 2150 \text{ MHz}$; $f_2 = 2151 \text{ MHz}$	11	14	17	dBm
$P_{L(2H)}$ second harmonic output power $P_{drive} = -37 \text{ dBm}$				
$f_{1H} = 250 \text{ MHz}; f_{2H} = 500 \text{ MHz}$	-63	-61	-59	dBm
$f_{1H} = 950 \text{ MHz}; f_{2H} = 1900 \text{ MHz}$	-	-50	-	dBm
$\Delta IM2$ second-order intermodulation distance $P_{drive} = -40 \text{ dBm (for each tone)}$				
$f_1 = 250 \text{ MHz}; f_2 = 251 \text{ MHz}$	49	51	53	dBc
$f_1 = 950 \text{ MHz}; f_2 = 951 \text{ MHz}$	-	51	-	dBc

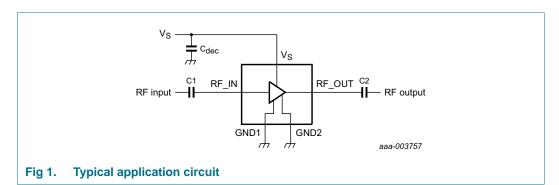
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8. Application information

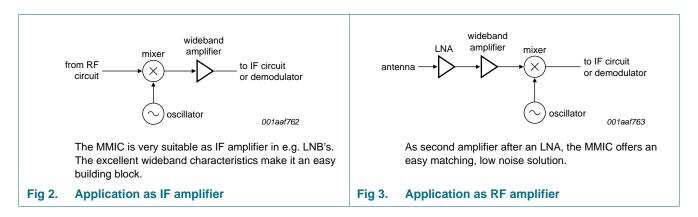
<u>Figure 1</u> shows a typical application circuit for the BGA2867 MMIC. The device is internally matched to $50~\Omega$, and therefore does not need any external matching. The value of the input and output DC blocking capacitors C2 and C3 should not be more than 100 pF for applications above 100 MHz. However, when the device is operated below 100 MHz, the capacitor value should be increased.

The location of the 470 pF supply decoupling capacitor (C_{dec}) can be precisely chosen for optimum performance.

The PCB top ground plane, connected to pins 2, 4 and 5 must be as close as possible to the MMIC, preferably also below the MMIC. When using via holes, use multiple via holes as close as possible to the MMIC.



8.1 Application examples



8.2 Tables

Table 7. Supply current over temperature and supply voltages *Typical values.*

Symbol	Parameter	Conditions	T _{amb} (°C)			Unit	
			-40	+25	+85		
I _{CC}	supply current	V _{CC} = 4.5 V	21.90	20.10	18.60	mA	
		V _{CC} = 5.0 V	23.50	21.70	20.10	mA	
		V _{CC} = 5.5 V	25.00	23.20	21.60	mA	

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Table 8. Second harmonic output power over temperature and supply voltages *Typical values*.

Symbol	Parameter	Conditions	T _{amb} (°C)		Unit	
			-40	+25	+85	
P _{L(2H)}	second harmonic output power	$f = 250 \text{ MHz}; P_{drive} = -37 \text{ dBm}$				
		V _{CC} = 4.5 V	-75	-67	-62	dBm
		V _{CC} = 5.0 V	-63	-61	-58	dBm
		V _{CC} = 5.5 V	-59	-58	-56	dBm
		$f = 950 \text{ MHz}; P_{drive} = -37 \text{ dBm}$				
		V _{CC} = 4.5 V	-51	-51	-50	dBm
		V _{CC} = 5.0 V	-50	-50	-49	dBm
		V _{CC} = 5.5 V	-49	-49	-48	dBm

Table 9. Input power at 1 dB gain compression over temperature and supply voltages *Typical values*.

Symbol	arameter	Conditions	T _{amb} (°C)			Unit
			-40	+25	+85	
P _{i(1dB)}	input power at 1 dB gain compression	f = 250 MHz				
		V _{CC} = 4.5 V	-19	-19	-19	dBm
		V _{CC} = 5.0 V	-18	-19	-19	dBm
		V _{CC} = 5.5 V	-18	-18	-19	dBm
		f = 950 MHz				
		V _{CC} = 4.5 V	-20	-20	-20	dBm
		V _{CC} = 5.0 V	-19	-20	-20	dBm
		V _{CC} = 5.5 V	-19	-19	-20	dBm
		f = 2150 MHz				
		V _{CC} = 4.5 V	-21	-22	-23	dBm
		V _{CC} = 5.0 V	-21	-22	-23	dBm
		V _{CC} = 5.5 V	-21	-22	-23	dBm

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Table 10. Output power at 1 dB gain compression over temperature and supply voltages *Typical values*.

Symbol	Parameter	Conditions	T _{amb} (°C)			Unit
			-40	+25	+85	
P _{L(1dB)}	output power at 1 dB gain compression	f = 250 MHz				
		V _{CC} = 4.5 V	7	6	5	dBm
		V _{CC} = 5.0 V	7	7	6	dBm
		V _{CC} = 5.5 V	8	8	7	dBm
		f = 950 MHz				
		V _{CC} = 4.5 V	6	6	5	dBm
		V _{CC} = 5.0 V	7	7	6	dBm
		V _{CC} = 5.5 V	8	7	6	dBm
		f = 2150 MHz				
		V _{CC} = 4.5 V	5	4	2	dBm
		V _{CC} = 5.0 V	6	5	3	dBm
		V _{CC} = 5.5 V	7	5	3	dBm

Table 11. Saturated output power over temperature and supply voltages *Typical values*.

Symbol	Parameter	Conditions	T _{amb}	(°C)		Unit
			-40	+25	+85	
P _{L(sat)}	saturated output power	f = 250 MHz				
		V _{CC} = 4.5 V	8	8	8	dBm
		V _{CC} = 5.0 V	10	9	8	dBm
		V _{CC} = 5.5 V	10	10	9	dBm
		f = 950 MHz				
		V _{CC} = 4.5 V	8	8	7	dBm
		V _{CC} = 5.0 V	9	8	8	dBm
		V _{CC} = 5.5 V	10	9	8	dBm
		f = 2150 MHz				
		V _{CC} = 4.5 V	6	5	4	dBm
		V _{CC} = 5.0 V	7	6	4	dBm
		V _{CC} = 5.5 V	8	6	5	dBm

Table 12. Second-order intermodulation distance over temperature and supply voltages *Typical values.*

Symbol	Parameter	Conditions	T _{amb}	T _{amb} (°C)		
			-40	+25	+85	
ΔΙΜ2	second-order intermodulation distance	$f_1 = 250 \text{ MHz};$ $f_2 = 251 \text{ MHz};$ $P_{drive} = -40 \text{ dBm}$				
		V _{CC} = 4.5 V	43	46	51	dBc
		V _{CC} = 5.0 V	48	51	58	dBc
		V _{CC} = 5.5 V	52	56	69	dBc
		$f_1 = 950 \text{ MHz};$ $f_2 = 951 \text{ MHz};$ $P_{drive} = -40 \text{ dBm}$				
		V _{CC} = 4.5 V	40	45	55	dBc
		V _{CC} = 5.0 V	45	51	63	dBc
		V _{CC} = 5.5 V	50	60	52	dBc

Table 13. Output third-order intercept point over temperature and supply voltages *Typical values*.

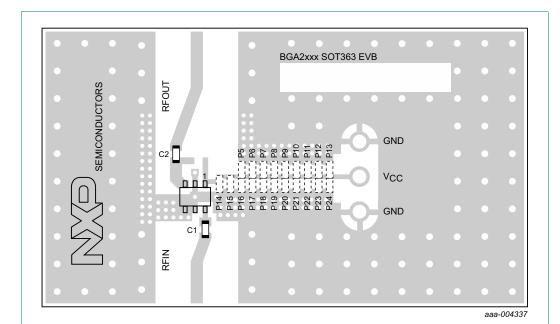
Symbol IP3 _O	Parameter output third-order intercept point	Conditions	T _{amb}	T _{amb} (°C)		
			-40	+25	+85	
		$f_1 = 250 \text{ MHz};$ $f_2 = 251 \text{ MHz};$ $P_{drive} = -40 \text{ dBm}$				
		V _{CC} = 4.5 V	21	19	18	dBm
		V _{CC} = 5.0 V	23	21	20	dBm
		V _{CC} = 5.5 V	24	23	21	dBm
		$f_1 = 950 \text{ MHz};$ $f_2 = 951 \text{ MHz};$ $P_{drive} = -40 \text{ dBm}$				
		V _{CC} = 4.5 V	18	17	16	dBm
		V _{CC} = 5.0 V	20.5	19.5	18.5	dBm
		V _{CC} = 5.5 V	21	20	18	dBm
		$f_1 = 2150 \text{ MHz};$ $f_2 = 2151 \text{ MHz};$ $P_{drive} = -40 \text{ dBm}$				
		V _{CC} = 4.5 V	14	13	11	dBm
		V _{CC} = 5.0 V	16	14	12	dBm
		V _{CC} = 5.5 V	17	15	12	dBm

Table 14. —3 dB bandwidth over temperature and supply voltages Typical values.

Typical values.						
Symbol	Parameter	Conditions	T _{amb} (°C)		Unit	
			-40	+25	+85	
B _{-3dB}	-3 dB bandwidth	V _{CC} = 4.5 V	3.09	2.98	2.84	GHz
		$V_{CC} = 5.0 \text{ V}$	3.11	3.00	2.91	GHz
		$V_{CC} = 5.5 \text{ V}$	3.13	3.01	2.93	GHz

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9. Test information



For decoupling a decoupling capacitor (C_{dec}) is used on one of the positions of P5 to P24. The results mentioned in this data sheet have been obtained using the decoupling capacitor C_{dec} on position P22. The distance between the center of pin 1 and the center of position P22 is 7.43 mm.

Fig 4. PCB layout and demo board with components

Table 15. List of components used for the typical application

Component	Description	Value	Dimensions	Remarks
C1, C2	multilayer ceramic chip capacitor	470 pF	0603	X7R RF coupling capacitor
P5 to P24 [1]	position for multilayer ceramic chip capacitor C _{dec}	470 pF	0603	X7R RF decoupling capacitor
IC1	BGA2867 MMIC	-	SOT363	

[1] For decoupling a decoupling capacitor (C_{dec}) is used on one of the positions of P5 to P24. The results mentioned in this data sheet have been obtained using the decoupling capacitor C_{dec} on position P22.

10. Package outline

Plastic surface-mounted package; 6 leads

SOT363

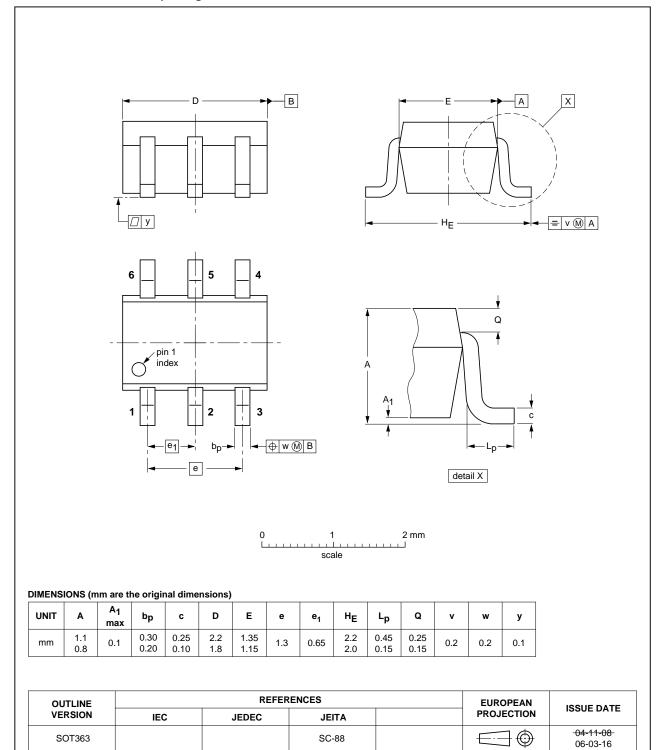


Fig 5. Package outline SOT363

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11. Abbreviations

Table 16. Abbreviations

Acronym	Description
IF	Intermediate Frequency
LNA	Low-Noise Amplifier
LNB	Low-Noise Block converter
PCB	Printed-Circuit Board
SMD	Surface Mounted Device

12. Revision history

Table 17. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
BGA2867 v.5	20161003	Product data sheet	-	BGA2867 v.4	
Modifications:	 Table 6 on page 2: the min/max value for P_{L(2H)} (f_{1H} = 950 MHz; f_{2H} = 1900 MHz) removed Table 6 on page 2: the min/max value for ΔIM2 (f₁ = 950 MHz; f₂ = 951 MHz) has been removed 				
BGA2867 v.4	20150713	Product data sheet	-	BGA2867 v.3	
Modifications:	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. Legal texts have been adapted to the new company name where appropriate. 				
BGA2867 v.3	20130827	Product data sheet	-	BGA2867 v.2	
BGA2867 v.2	20120925	Product data sheet	-	BGA2867 v.1	
BGA2867 v.1	20120312	Product data sheet	-	-	

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13.1 Data sheet status

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BGA2867 NXP Semiconductors

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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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