



LTE3401H

SiGe:C low-noise amplifier MMIC with bypass switch for LTE

Rev. 3 — 28 June 2019

Product data sheet

1 General description

The LTE3401H is a high-gain Low-Noise Amplifier (LNA) with bypass switch for LTE receiver applications, available in a small plastic 6-pin thin leadless package.

The LTE3401H delivers system-optimized gain for both primary and diversity applications where sensitivity improvement is required. The high linearity of this low noise device ensures the required receive sensitivity independent of cellular transmit power level in frequency division duplex (FDD) systems. When receive signal strength is sufficient, the LTE3401H can be switched off to operate in bypass mode at increased IP_{3i} level and a 1 μ A supply current, to lower power consumption. The LTE3401H is internally AC coupled and requires only one external matching inductor.

The LTE3401H is optimized for 1710 MHz to 2690 MHz, but supports 1452 MHz - 1710 MHz as well.

2 Features and benefits

- Operating frequency from 1452 MHz to 2690 MHz
- Noise figure = 0.65 dB
- Gain 19.5 dB
- High input 1 dB compression point of -10.5 dBm
- High in band IP_{3i} of +2 dBm
- Bypass switch insertion loss of 2.7 dB
- Supply voltage 1.5 V to 3.1 V
- Integrated RF supply decoupling capacitor
- Optimized performance at a supply current of 13.4 mA
- Bypass mode current consumption < 1 μ A
- Integrated temperature stabilized bias for easy design
- Requires only one input matching inductor
- Input and Output AC coupled through DC blocking capacitors
- Integrated matching for the output
- ESD protection on all pins
- Low bill of materials (BOM)
- 6 pins leadless package: 1.1 mm x 0.7 mm x 0.37 mm: 0.40 mm pitch
- 180 GHz transit frequency - SiGe:C technology
- Moisture sensitivity Level 1



3 Applications

- LNA for LTE reception in smart phones
- feature phones
- tablet PCs
- RF front-end modules

4 Quick reference data

Table 1. Quick reference data

$f = 2140$ MHz; $V_{CC} = 2.8$ V; $V_{I(CTRL)} > 0.8$ V; $T_{amb} = 25$ °C. Input matched to 50Ω using application diagram from [Figure 3](#) and component values as in [Table 10](#). Unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
I_{CC}	supply current	in gain mode	-	13.4	16.8	mA
		in bypass mode	-	-	1	μ A
G_p	power gain	in gain mode	-	19.5	-	dB
		in bypass mode	-	-2.7	-	dB
NF	noise figure	[1]	-	0.65	-	dB
$P_{I(1\text{ dB})}$	input power at 1 dB gain compression		-	-10.5	-	dBm
IP3 _i	input third-order intercept point	$\Delta f = 1$ MHz	-	+2.0	-	dBm

[1] PCB losses are subtracted.

5 Ordering information

Table 2. Ordering information

Type number	Orderable part number	Package		Version
		Name	Description	
LTE3401H	LTE3401HX	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1.1 x 0.7 x 0.37 mm	SOT1232

6 Marking

Table 3. Marking code

Type number	Marking code
LTE3401H	W

7 Functional diagram

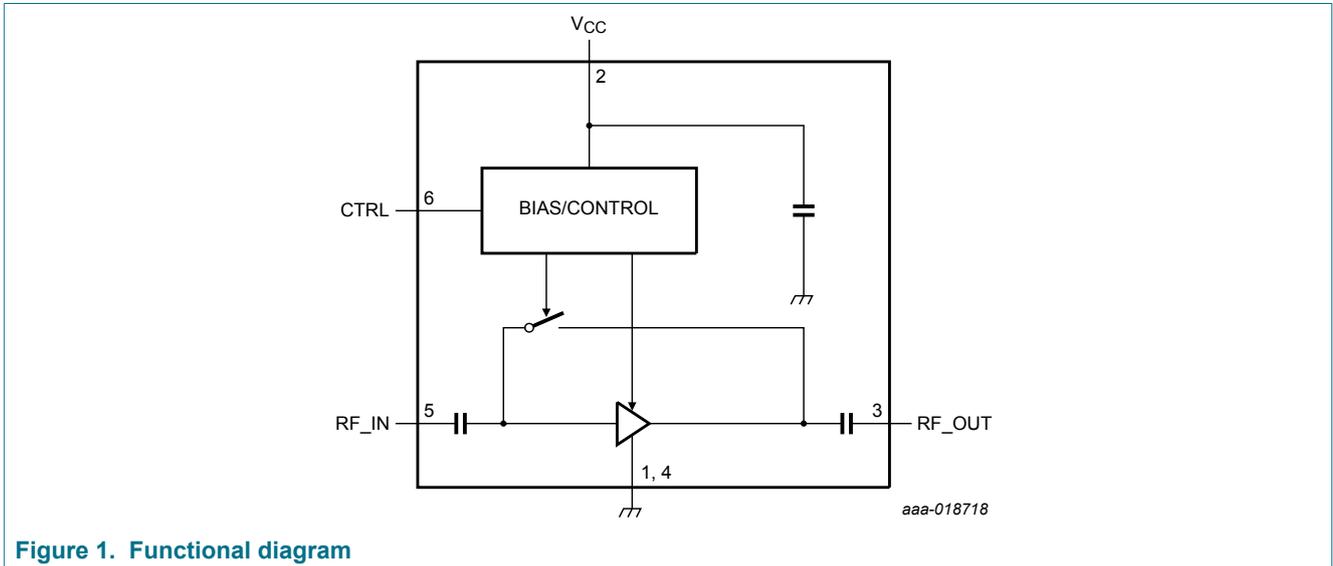


Figure 1. Functional diagram

8 Pinning information

8.1 Pinning

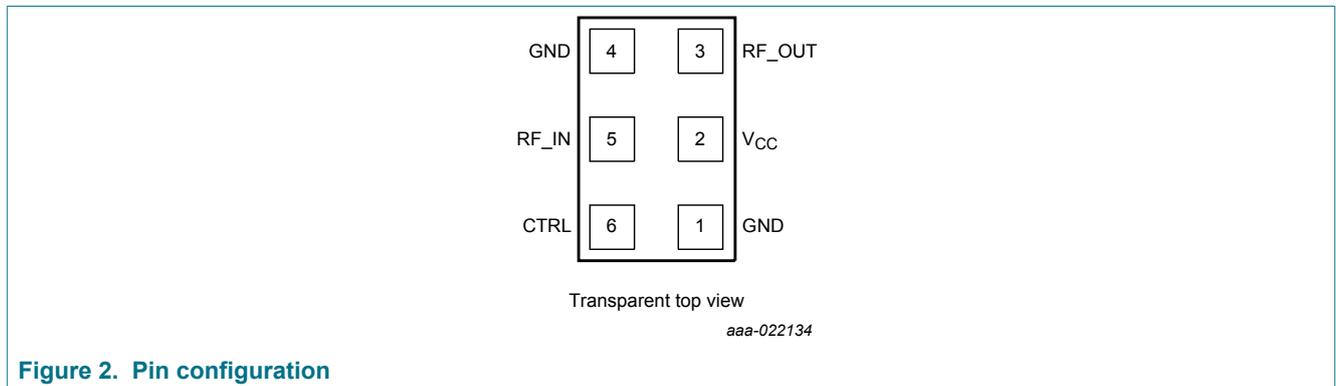


Figure 2. Pin configuration

8.2 Pin description

Table 4. Pinning

Symbol	Pin	Description
GND	1	RF ground
V _{CC}	2	supply voltage
RF_OUT	3	RF out
GND	4	RF ground
RF_IN	5	RF in
CTRL	6	gain control, switch between gain and bypass mode

9 Limiting values

Table 5. Limiting values

In accordance with the absolute maximum rating system (IEC 60134). See section 18.3 "Disclaimers", paragraph "Limiting values".

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		-0.5	+5.0	V
V _{I(CTRL)}	input voltage on pin CTRL	V _{I(CTRL)} < V _{CC} + 0.6 V	-0.5	+5.0	V
V _{I(RF_IN)}	input voltage on pin RF_IN	DC	[1] -0.5	+0.6	V
V _{I(RF_OUT)}	input voltage on pin RF_OUT	DC, V _{I(RF_OUT)} < V _{CC} + 0.6 V	[1] -0.5	+5.0	V
P _i	input power	RF	-	26	dBm
		RF	[2] -	23	dBm
P _o	output power	RF gain mode, at V _{CC} = 1.8 V	-	12	dBm
		RF bypass mode, at V _{CC} = 1.8 V	-	10	dBm
T _{stg}	storage temperature		-65	+150	°C
T _j	junction temperature		-	150	°C
V _{ESD}	electrostatic discharge voltage	human body model (HBM) according to ANSI/ESDA/JEDEC standard JS-001	[3] -	±2	kV
		charged device model (CDM) according to ANSI/ESDA/JEDEC standard JS-002	-	±1	kV

[1] The RF input and output are AC coupled through internal DC Blocking capacitors.

[2] f = 2140 MHz; 200 Hrs at T_{amb} = 100 °C.

[3] HBM ESD protection level is according to JS-001 classification 2 (2000 V to < 4000 V).

10 Operating conditions

Table 6. Operating conditions

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{CC}	supply voltage		1.5	-	3.1	V
T _{amb}	ambient temperature		-40	25	85	°C
V _{I(CTRL)}	input voltage on pin CTRL	bypass mode	-	-	0.25	V
		gain mode	0.8	-	-	V

11 Thermal characteristics

Table 7. Thermal characteristics

Symbol	Parameter	Conditions	Typ	Unit
R _{th(j-sp)}	junction to solder point thermal resistance		225	K/W

12 Characteristics

Table 8. Characteristics

1452 MHz ≤ f ≤ 2690 MHz; V_{CC} = 1.8 V; T_{amb} = 25 °C; input matched 50 Ω using application diagram from [Figure 3](#) and component values as in [Table 10](#). Unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
Gain mode specifications by frequency point						
I _{CC}	supply current	V _{I(CTRL)} > 0.8 V	-	12.7	15.8	mA
G _p	power gain	f = 1452 MHz	-	21.0	-	dB
		f = 1710 MHz	-	20.5	-	dB
		f = 2140 MHz	-	19.0	-	dB
		f = 2690 MHz	-	17.0	-	dB
ΔG _p	power gain variation	using input matching inductor 2.7 nH				
		f = 1800 MHz - 2690 MHz ^[1]	-	+/-2.25	-	dB
		f = 1800 MHz - 2200 MHz ^[1]	-	+/-1.75	-	dB
		f = 2300 MHz - 2690 MHz ^[1]	-	+/-1.75	-	dB
ΔG/ΔT	gain variation with temperature		-	-0.015	-	dB/°C
NF	noise figure	f = 1452 MHz ^[2]	-	0.55	-	dB
		f = 1710 MHz ^[2]	-	0.55	-	dB
		f = 2140 MHz ^[2]	-	0.65	-	dB
		f = 2690 MHz ^[2]	-	0.75	-	dB
P _{I(1dB)}	input power at 1 dB gain compression	f = 1452 MHz	-	-16.5	-	dBm
		f = 1710 MHz	-	-15.5	-	dBm
		f = 2140 MHz	-	-13.5	-	dBm
		f = 2690 MHz	-	-10.5	-	dBm
IP _{3i}	input third-order intercept point	f = 1452 MHz, Δf = 1 MHz	-	-5	-	dBm
		f = 1710 MHz, Δf = 1 MHz	-	-2	-	dBm
		f = 2140 MHz, Δf = 1 MHz	-	0	-	dBm
		f = 2690 MHz, Δf = 1 MHz	-	+2.5	-	dBm
RL _{in}	input return loss	f = 1452 MHz	-	8	-	dB
		f = 1710 MHz	-	8	-	dB
		f = 2140 MHz	-	10	-	dB
		f = 2690 MHz	-	12	-	dB

SiGe:C low-noise amplifier MMIC with bypass switch for LTE

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
RL _{out}	output return loss	f = 1452 MHz	-	10	-	dB
		f = 1710 MHz	-	10	-	dB
		f = 2140 MHz	-	14	-	dB
		f = 2690 MHz	-	9	-	dB
ISL	isolation	f = 1452 MHz	-	34	-	dB
		f = 1710 MHz	-	32	-	dB
		f = 2140 MHz	-	30	-	dB
		f = 2690 MHz	-	30	-	dB
K	Rollett stability factor		1	-	-	
t _{on}	turn-on time	time from V _{I(CTRL)} ON, to 90 % of the gain	-	-	1	µs
t _{off}	turn-off time	time from V _{I(CTRL)} OFF, to 10 % of the gain	-	-	1	µs
Bypass mode specifications by frequency point						
I _{CC}	supply current	V _{I(CTRL)} < 0.25 V	-	-	1.0	µA
G _p	power gain	f = 1452 MHz	-	-1.8	-	dB
		f = 1710 MHz	-	-2.5	-	dB
		f = 2140 MHz	-	-2.7	-	dB
		f = 2690 MHz	-	-3.0	-	dB
RL _{in}	input return loss	f = 1452 MHz	-	15	-	dB
		f = 1710 MHz	-	12	-	dB
		f = 2140 MHz	-	13	-	dB
		f = 2690 MHz	-	12	-	dB
RL _{out}	output return loss	f = 1452 MHz	-	14	-	dB
		f = 1710 MHz	-	8	-	dB
		f = 2140 MHz	-	10	-	dB
		f = 2690 MHz	-	15	-	dB
Gain mode specifications for wideband frequency range						
G _p	power gain	f = 1800 MHz - 2690 MHz ^[1]	14.7	18	21.7	dB
		f = 1800 MHz - 2200 MHz ^[1]	16.7	18	21.7	dB
		f = 2300 MHz - 2690 MHz ^[1]	14.7	18	20.5	dB
NF	noise figure	f = 1800 MHz - 2690 MHz ^[1]	-	0.8	1.3	dB
		f = 1800 MHz - 2200 MHz ^[1]	-	0.8	1.3	dB
		f = 2300 MHz - 2690 MHz ^[1]	-	0.8	1.3	dB

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$P_{i(1dB)}$	input power at 1 dB gain compression	f = 1800 MHz - 2690 MHz ^[1]	-18	-13	-	dBm
		f = 1800 MHz - 2200 MHz ^[1]	-17	-12	-	dBm
		f = 2300 MHz - 2690 MHz ^[1]	-18	-13	-	dBm
IP _{3i}	input third-order intercept point	f = 1800 MHz - 2690 MHz ^[1]	-5	0	-	dBm
		f = 1800 MHz - 2200 MHz ^[1]	-5	0	-	dBm
		f = 2300 MHz - 2690 MHz ^[1]	-2	3	-	dBm
VSWR _i	input voltage standing wave ratio	f = 1800 MHz - 2690 MHz ^[1]	-	-	4	-
VSWR _o	output voltage standing wave ratio	f = 1800 MHz - 2690 MHz ^[1]	-	-	4	-
ISL	isolation	f = 1800 MHz - 2690 MHz ^[1]	25	-	-	dB
$\Delta\phi$	phase variation	f = 1800 MHz - 2690 MHz ^[1]	-8	-	+8	deg

[1] Guaranteed by device design; not tested in production.

[2] PCB losses are subtracted.

Table 9. Characteristics

1452 MHz ≤ f ≤ 2690 MHz; V_{CC} = 2.8 V; T_{amb} = 25 °C; input matched 50 Ω using application diagram from Figure 3 and component values as in Table 10. Unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
Gain mode specifications by frequency point						
I _{CC}	supply current	V _{I(CTRL)} > 0.8 V	-	13.4	16.8	mA
G _p	power gain	f = 1452 MHz	-	21.5	-	dB
		f = 1710 MHz	-	21.0	-	dB
		f = 2140 MHz	-	19.5	-	dB
		f = 2690 MHz	-	17.5	-	dB
ΔG/ΔT	gain variation with temperature		-	-0.015	-	dB/°C
NF	noise figure	f = 1452 MHz [1]	-	0.55	-	dB
		f = 1710 MHz [1]	-	0.55	-	dB
		f = 2140 MHz [1]	-	0.65	-	dB
		f = 2690 MHz [1]	-	0.75	-	dB
P _{I(1dB)}	input power at 1 dB gain compression	f = 1452 MHz	-	-13.5	-	dBm
		f = 1710 MHz	-	-12.5	-	dBm
		f = 2140 MHz	-	-10.5	-	dBm
		f = 2690 MHz	-	-7.5	-	dBm
IP _{3i}	input third-order intercept point	f = 1452 MHz, Δf = 1 MHz	-	-3	-	dBm
		f = 1710 MHz, Δf = 1 MHz	-	0	-	dBm
		f = 2140 MHz, Δf = 1 MHz	-	2	-	dBm
		f = 2690 MHz, Δf = 1 MHz	-	4.5	-	dBm
RL _{in}	input return loss	f = 1452 MHz	-	9	-	dB
		f = 1710 MHz	-	9	-	dB
		f = 2140 MHz	-	11	-	dB
		f = 2690 MHz	-	12	-	dB
RL _{out}	output return loss	f = 1452 MHz	-	10	-	dB
		f = 1710 MHz	-	10	-	dB
		f = 2140 MHz	-	14	-	dB
		f = 2690 MHz	-	9	-	dB
ISL	isolation	f = 1452 MHz	-	34	-	dB
		f = 1710 MHz	-	32	-	dB
		f = 2140 MHz	-	30	-	dB
		f = 2690 MHz	-	30	-	dB
K	Rollett stability factor		1	-	-	

SiGe:C low-noise amplifier MMIC with bypass switch for LTE

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
t_{on}	turn-on time	time from $V_{I(CTRL)}$ ON, to 90 % of the gain	-	-	1	μ s
t_{off}	turn-off time	time from $V_{I(CTRL)}$ OFF, to 10 % of the gain	-	-	1	μ s
Bypass mode specifications by frequency point						
I_{CC}	supply current	$V_{I(CTRL)} < 0.25$ V	-	-	1.0	μ A
G_p	power gain	f = 1452 MHz	-	-1.8	-	dB
		f = 1710 MHz	-	-2.5	-	dB
		f = 2140 MHz	-	-2.7	-	dB
		f = 2690 MHz	-	-3.0	-	dB
RL_{in}	input return loss	f = 1452 MHz	-	15	-	dB
		f = 1710 MHz	-	12	-	dB
		f = 2140 MHz	-	13	-	dB
		f = 2690 MHz	-	12	-	dB
RL_{out}	output return loss	f = 1452 MHz	-	14	-	dB
		f = 1710 MHz	-	8	-	dB
		f = 2140 MHz	-	10	-	dB
		f = 2690 MHz	-	15	-	dB

[1] PCB losses are subtracted.

13 Application information

13.1 LTE LNA

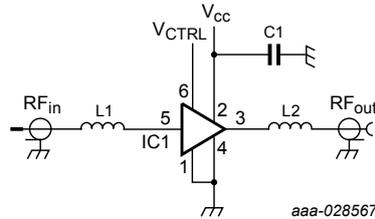


Figure 3. Schematics LTE LNA evaluation board

Table 10. List of components

For schematics, see [Figure 3](#).

Component	Description	Value	Remarks
C ₁	decoupling capacitor	1 μF	The total capacitance on the V _{CC} node must be at least 1 μF. It must be positioned at a short distance from the V _{CC} pin (preferably within 15 mm). Typically, such capacitance is already present at the output of the V _{CC} voltage regulator.
IC1	LTE3401H		NXP
L1	high-quality matching inductor	8.2 nH	1452 - 1560 MHz Murata LQW15A
		5.6 nH	1710 - 1800 MHz Murata LQW15A
		4.3 nH	1800 - 2200 MHz Murata LQW15A
		2.7 nH	1770 - 2690 MHz Murata LQW15A
		2.2 nH	2300 - 2690 MHz Murata LQW15A
L2	output matching inductor	4.7 nH	1452-1560 MHz Murata LQG10A
		no mount	1710-1800 MHz
		no mount	1800-2200 MHz
		no mount	1770-2690 MHz
		no mount	2300-2690 MHz

14 Package outline

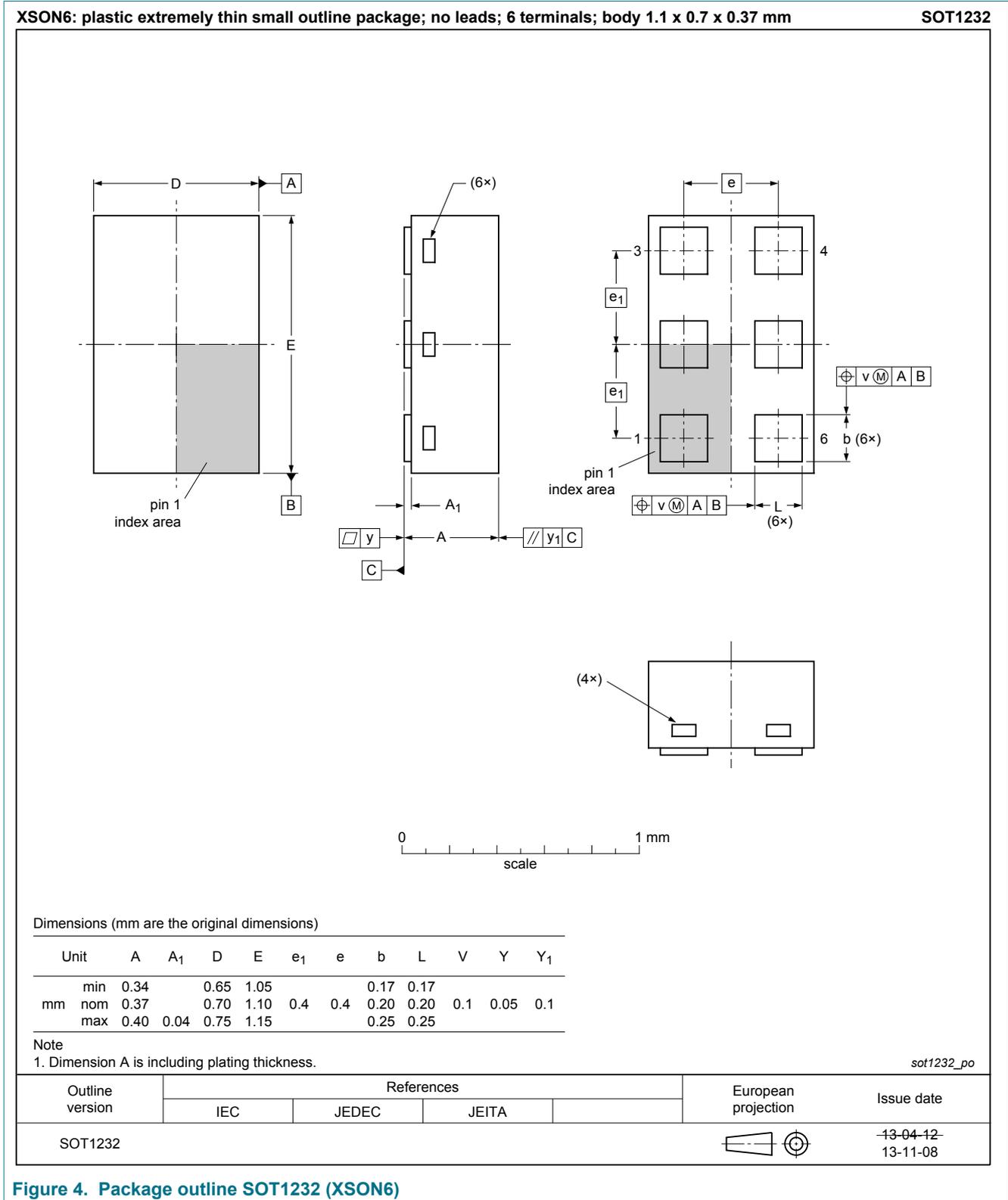


Figure 4. Package outline SOT1232 (XSON6)

15 Handling information

CAUTION



This device is sensitive to ElectroStatic Discharge (ESD). Observe precautions for handling electrostatic sensitive devices. Such precautions are described in the *ANSI/ESD S20.20*, *IEC/ST 61340-5*, *JESD625-A* or equivalent standards.

16 Abbreviations

Table 11. Abbreviations

Acronym	Description
ESD	electrostatic discharge
HBM	human body model
MMIC	monolithic microwave-integrated circuit
MSL	moisture sensitivity level
MUF	molded underfill
LTE	long-term evolution
PCB	printed-circuit board
SiGe:C	silicon germanium carbon

17 Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
LTE3401H v.3	20190628	Product data sheet	-	LTE3401H v.2.3
modification	added chapter with Gain mode specifications for wideband frequency range to Table 8 1.8 V			
LTE3401H v.2.3	20190430	Product data sheet	-	LTE3401H v.2.2
modification	<ul style="list-style-type: none"> added application information for extra frequency range added output power values to the Limiting values table added power gain variation values when using the matching inductor of 2.7 nH 			
LTE3401H v.2.2	20181218	Product data sheet	-	LTE3401H v.2.1
modification	added extra column for Orderable part number to Ordering information table, to prevent confusion			
LTE3401H v.2.1	20181023	Product data sheet	-	LTE3401H v.2
modification	added orderable part number to Ordering information table			
LTE3401H v.2	20180810	Product data sheet	-	LTE3401H v.1
modification	data sheet changed from company confidential to public			
LTE3401H v.1	20172811	Product data sheet	-	-

18 Legal information

18.1 Data sheet status

Document status ^{[1][2]}	Product status ^[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
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[2] The term 'short data sheet' is explained in section "Definitions".

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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