BLF8G24LS-150V; BLF8G24LS-150GV

Power LDMOS transistor

AMPLEON

Rev. 4 — 1 September 2015

Product data sheet

1. Product profile

1.1 General description

150 W LDMOS power transistor with improved video bandwidth for base station applications at frequencies from 2300 MHz to 2400 MHz.

Table 1. Typical performance

Typical RF performance at T_{case} = 25 °C in a common source class-AB production test circuit.

Test signal	f	I_{Dq}	V_{DS}	$P_{L(AV)}$	G_p	η_D	$ACPR_{5M}$
	(MHz)	(mA)	(V)	(W)	(dB)	(%)	(dBc)
2-carrier W-CDMA	2300 to 2400	1300	28	45	19	33	–30 [1]

[1] 3GPP test model 1; 64 DPCH; PAR = 8.4 dB at 0.01 % probability on CCDF; carrier spacing 5 MHz. Channel bandwidth is 3.84 MHz.

1.2 Features and benefits

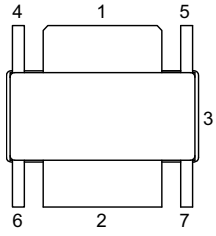
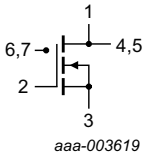
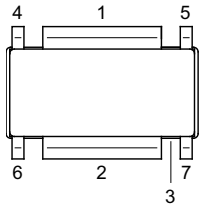
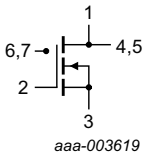
- Excellent ruggedness
- High efficiency
- Low thermal resistance providing excellent thermal stability
- Decoupling leads to enable improved video bandwidth (70 MHz typical)
- Lower output capacitance for improved performance in Doherty applications
- Designed for low memory effects providing excellent digital pre-distortion capability
- Internally matched for ease of use
- Integrated ESD protection
- Design optimized for gull-wing
- Compliant to Directive 2002/95/EC, regarding Restriction of Hazardous Substances (RoHS)

1.3 Applications

- RF power amplifiers for base stations and multi carrier applications in the 2300 MHz to 2400 MHz frequency range

2. Pinning information

Table 2. Pinning

Pin	Description	Simplified outline	Graphic symbol
BLF8G24LS-150V (SOT1244B)			
1	drain		
2	gate		
3	source [1]		
4	decoupling lead		
5	decoupling lead		
6	n.c.		
7	n.c.		
BLF8G24LS-150GV (SOT1244C)			
1	drain		
2	gate		
3	source [1]		
4	decoupling lead		
5	decoupling lead		
6	n.c.		
7	n.c.		

[1] Connected to flange.

3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
BLF8G24LS-150V	-	earless flanged ceramic package; 6 leads	SOT1244B
BLF8G24LS-150GV	-	earless flanged ceramic package; 6 leads	SOT1244C

4. Limiting values

Table 4. Limiting values

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

Symbol	Parameter	Conditions	Min	Max	Unit
V_{DS}	drain-source voltage		-	65	V
V_{GS}	gate-source voltage		–0.5	+13	V
T_{stg}	storage temperature		–65	+150	°C
T_j	junction temperature	[1]	-	225	°C

[1] Continuous use at maximum temperature will affect the reliability, for details refer to the on-line MTF calculator.

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5. Thermal characteristics

Table 5. Thermal characteristics

Symbol	Parameter	Conditions	Typ	Unit
$R_{th(j-c)}$	thermal resistance from junction to case	T_{case} = 80 °C; P_L = 45 W	0.30	K/W

6. Characteristics

Table 6. DC characteristics

T_j = 25 °C unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{(BR)DSS}$	drain-source breakdown voltage	V_{GS} = 0 V; I_D = 2.16 mA	65	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	V_{DS} = 10 V; I_D = 216 mA	1.5	1.9	2.3	V
V_{GSq}	gate-source quiescent voltage	V_{DS} = 28 V; I_D = 1300 mA	1.6	2	2.4	V
I_{DSS}	drain leakage current	V_{GS} = 0 V; V_{DS} = 28 V	-	-	4.5	μA
I_{DSX}	drain cut-off current	V_{GS} = $V_{GS(th)}$ + 3.75 V; V_{DS} = 10 V	-	40	-	A
I_{GSS}	gate leakage current	V_{GS} = 11 V; V_{DS} = 0 V	-	-	450	nA
g_{fs}	forward transconductance	V_{DS} = 10 V; I_D = 10.8 A	-	16	-	S
$R_{DS(on)}$	drain-source on-state resistance	V_{GS} = $V_{GS(th)}$ + 3.75 V; I_D = 7.56 A	-	0.06	-	Ω

Table 7. RF characteristics

Test signal: 2-carrier W-CDMA; 3GPP test model 1; 64 DPCH; PAR = 8.4 dB at 0.01 % probability on the CCDF, carrier spacing 5 MHz; f_1 = 2302.5 MHz; f_2 = 2307.5 MHz; f_3 = 2392.5 MHz; f_4 = 2397.5 MHz; RF performance at V_{DS} = 28 V; I_{Dq} = 1300 mA; T_{case} = 25 °C; unless otherwise specified; in a class-AB production test circuit.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
G_p	power gain	$P_{L(AV)}$ = 45 W	17.5	19	-	dB
RL_{in}	input return loss	$P_{L(AV)}$ = 45 W	-	–10	–7	dB
η_D	drain efficiency	$P_{L(AV)}$ = 45 W	29	33	-	%
$ACPR_{5M}$	adjacent channel power ratio (5 MHz)	$P_{L(AV)}$ = 45 W	-	–30	–27	dBc

7. Test information

7.1 Ruggedness in class-AB operation

The BLF8G24LS-150V and BLF8G24LS-150GV are capable of withstanding a load mismatch corresponding to VSWR = 10 : 1 through all phases under the following conditions: V_{DS} = 28 V; I_{Dq} = 1300 mA; P_L = 150 W (CW); f = 2300 MHz.

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7.2 Impedance information

Table 8. Typical impedance

Measured load-pull data; I_{Dq} = 1300 mA; V_{DS} = 28 V.

f	Z_S [1]	Z_L [1]
(MHz)	(Ω)	(Ω)
BLF8G24LS-150V		
2300	1.25 – j4.11	2.95 – j1.20
2400	2.34 – j5.50	2.88 – j1.31
2500	5.65 – j6.35	2.80 – j1.35
BLF8G24LS-150GV		
2300	1.29 – j5.78	3.13 – j3.26
2400	2.15 – j7.09	2.78 – j3.44
2500	6.61 – j7.57	2.98 – j3.66

[1] Z_S and Z_L defined in Figure 1.

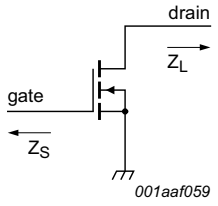
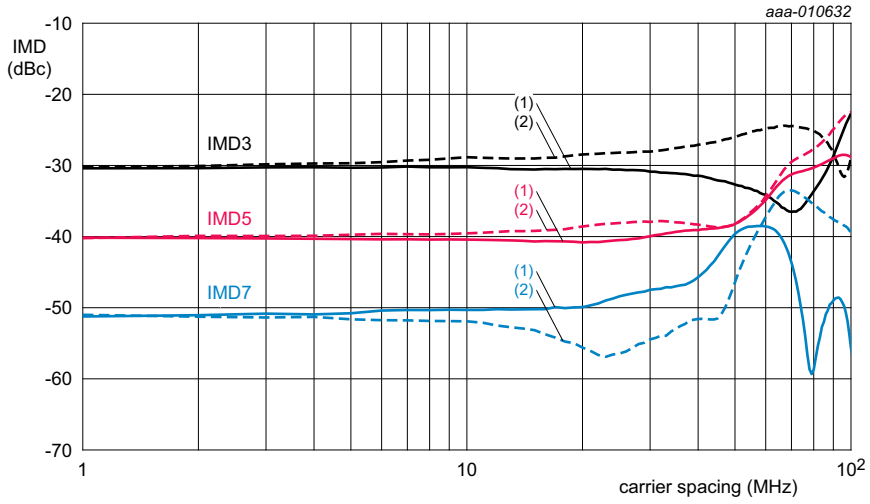


Fig 1. Definition of transistor impedance

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7.3 VBW in a class-AB operation

The BLF8G24LS-150V shows 70 MHz (typical) video bandwidth (IMD third-order intermodulation inflection point) in a class-AB test circuit in the 2.3 GHz to 2.4 GHz band at V_{DS} = 28 V and I_{Dq} = 1.3 A.



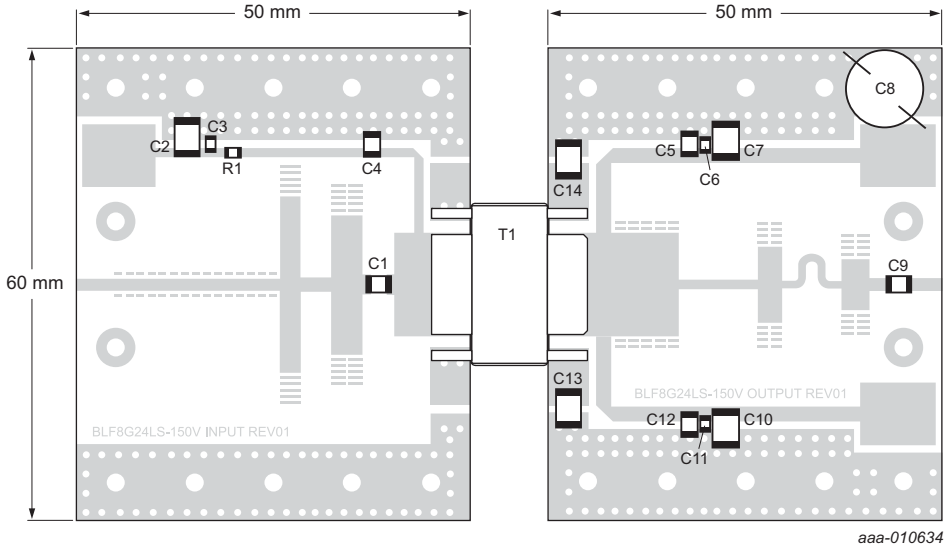
V_{DS} = 28 V; I_{Dq} = 1300 mA; f_c = 2350 MHz.

(1) low

(2) high

Fig 2. VBW capacity in class-AB test circuit

7.4 Test circuit



Printed-Circuit Board (PCB): Rogers 4350B with a thickness of 0.76 mm. See Table 9 for a list of components.

Fig 3. Component layout

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Table 9. List of components

See Figure 3 for component layout.

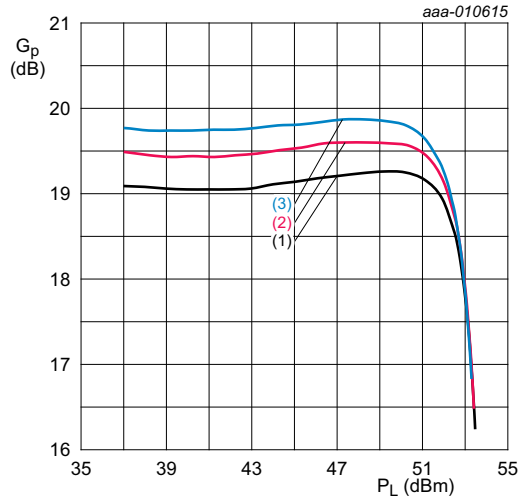
Component	Description	Value	Remarks
C1	multilayer ceramic chip capacitor	1.2 pF [1]	ATC 800B
C2	multilayer ceramic chip capacitor	1 μF [2]	Murata
C3	multilayer ceramic chip capacitor	100 nF [2]	Murata
C4, C5, C9, C12	multilayer ceramic chip capacitor	24 pF [1]	ATC 800B
C6, C11	multilayer ceramic chip capacitor	220 nF [2]	Murata
C7, C10, C13, C14	multilayer ceramic chip capacitor	4.7 μF, 50 V [2]	Murata
C8	electrolytic capacitor	> 470 μF, 63 V	
R1	chip resistor	4.7 Ω, 1 % tolerance	SMD 0805
T1	transistor	-	Ampleon BLF8G24LS-150V

[1] American Technical Ceramics type 800B or capacitor of same quality.

[2] Murata or capacitor of same quality.

7.5 Graphical data

7.5.1 Pulsed CW



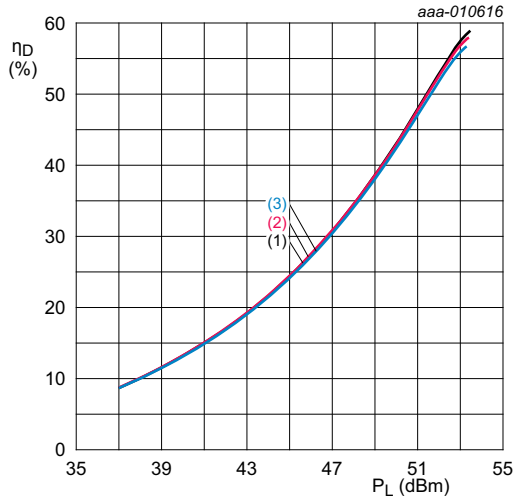
V_{DS} = 28 V; I_{Dq} = 1300 mA; t_p = 100 μs; δ = 10 %.

(1) f = 2300 MHz

(2) f = 2350 MHz

(3) f = 2400 MHz

Fig 4. Power gain as a function of output power; typical values



V_{DS} = 28 V; I_{Dq} = 1300 mA; t_p = 100 μs; δ = 10 %.

(1) f = 2300 MHz

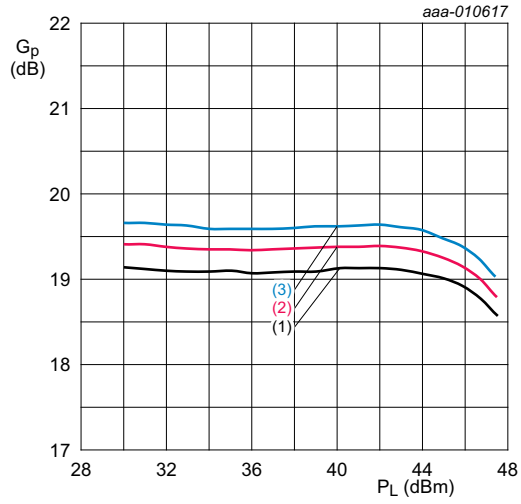
(2) f = 2350 MHz

(3) f = 2400 MHz

Fig 5. Drain efficiency as a function of out power; typical values

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7.5.2 IS-95



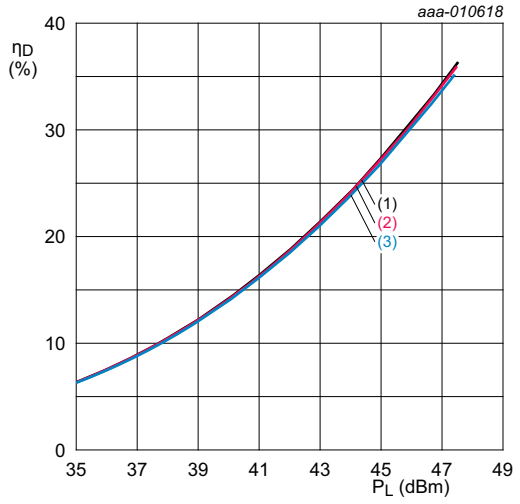
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 6. Power gain as a function of output power; typical values



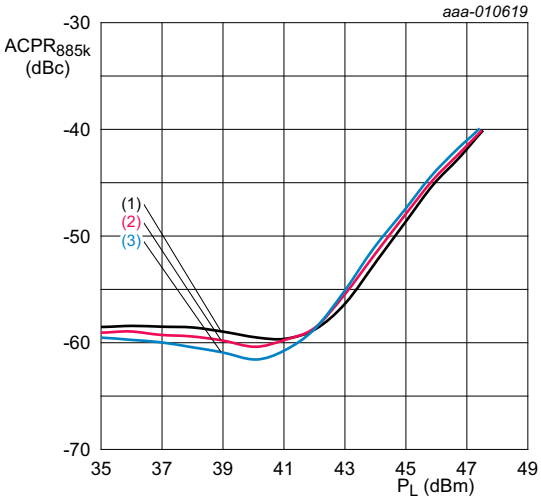
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 7. Drain efficiency as a function of output power; typical values



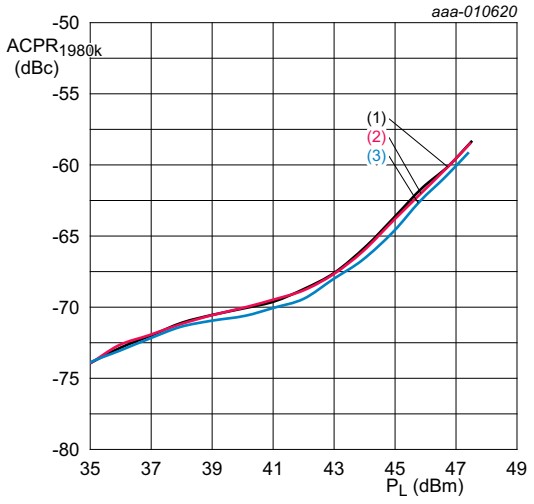
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 8. Adjacent channel power ratio (885 kHz) as a function of output power; typical values



V_{DS} = 28 V; I_{Dq} = 1300 mA.

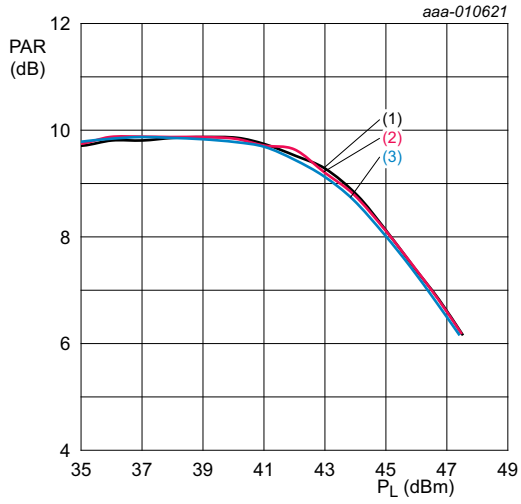
(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 9. Adjacent channel power ratio (1980 kHz) as a function of output power; typical values

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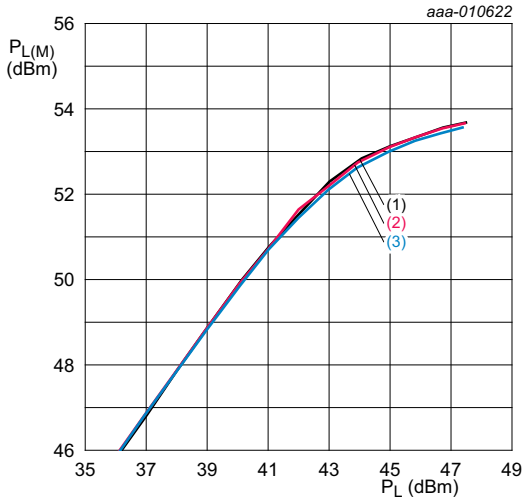
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 10. Peak-to-average ratio as a function of output power; typical values



V_{DS} = 28 V; I_{Dq} = 1300 mA.

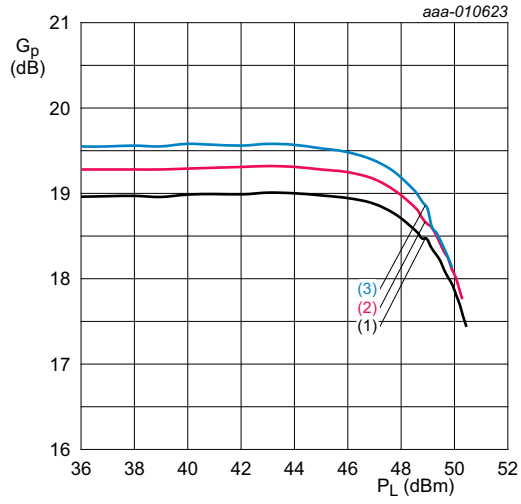
(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 11. Peak output power as a function of output power; typical values

7.5.3 1-Carrier W-CDMA



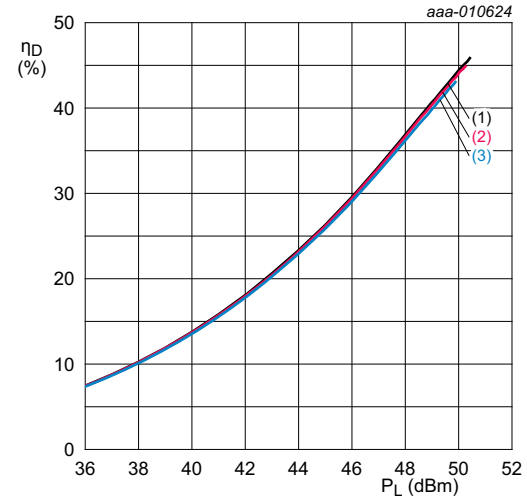
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2302.5 MHz

(2) f = 2350 MHz

(3) f = 2397.5 MHz

Fig 12. Power gain as a function of output power; typical values



V_{DS} = 28 V; I_{Dq} = 1300 mA.

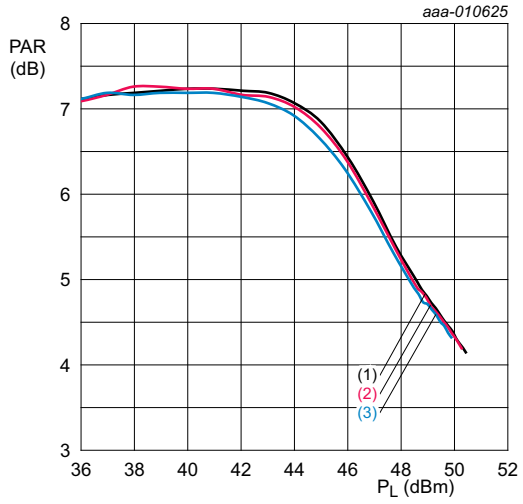
(1) f = 2302.5 MHz

(2) f = 2350 MHz

(3) f = 2397.5 MHz

Fig 13. Drain efficiency as a function of output power; typical values

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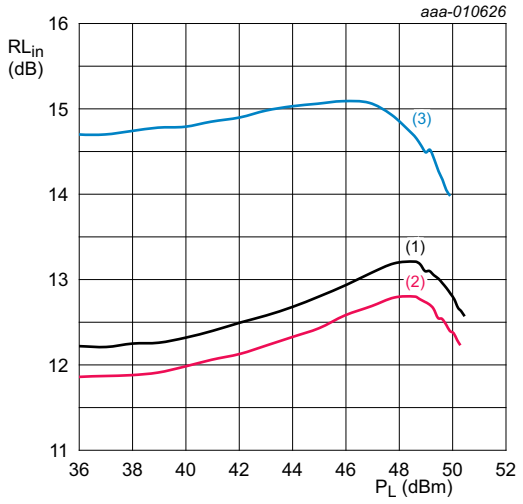
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2302.5 MHz

(2) f = 2350 MHz

(3) f = 2397.5 MHz

Fig 14. Peak-to-average ratio as a function of output power; typical values



V_{DS} = 28 V; I_{Dq} = 1300 mA.

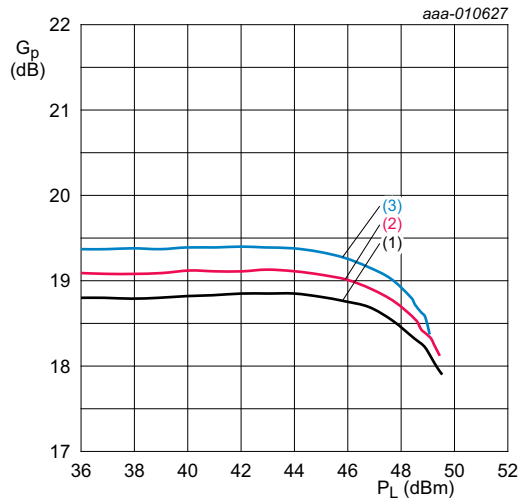
(1) f = 2302.5 MHz

(2) f = 2350 MHz

(3) f = 2397.5 MHz

Fig 15. Input return loss as a function of output power; typical values

7.5.4 2-Carrier W-CDMA



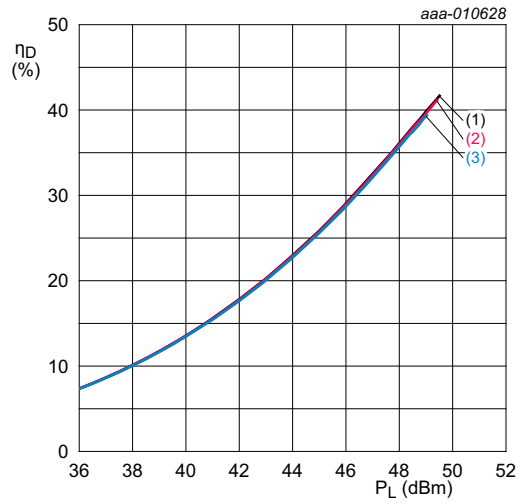
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 16. Power gain as a function of output power; typical values



V_{DS} = 28 V; I_{Dq} = 1300 mA.

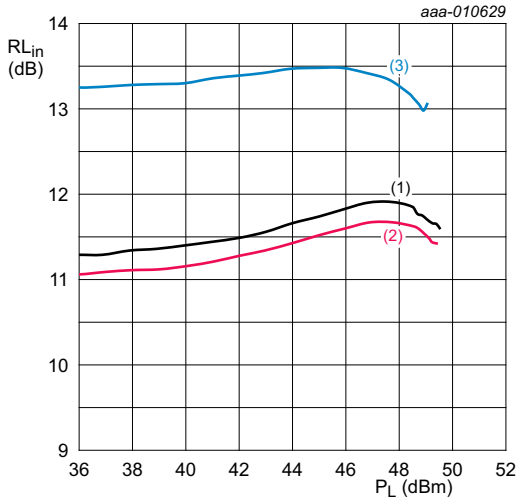
(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 17. Drain efficiency as a function of output power; typical values

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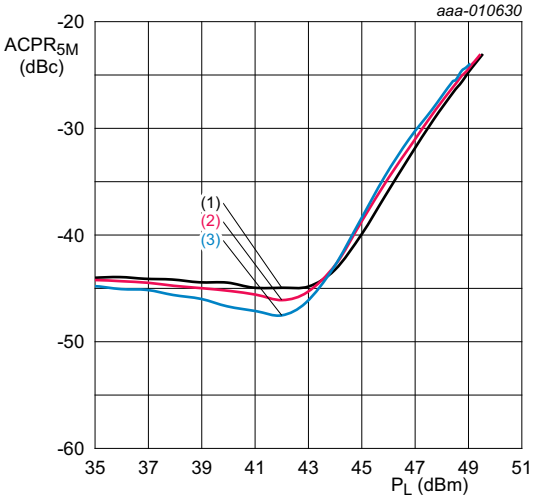
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 18. Input return loss as a function of output power; typical values



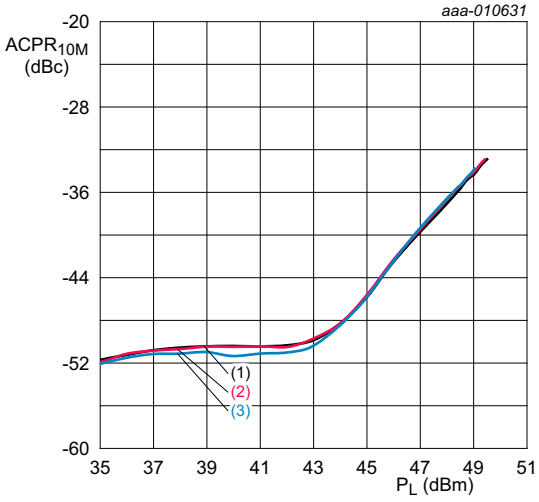
V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2305 MHz

(2) f = 2350 MHz

(3) f = 2395 MHz

Fig 19. Adjacent channel power ratio (5 MHz) as a function of output power; typical values



V_{DS} = 28 V; I_{Dq} = 1300 mA.

(1) f = 2305 MHz

(2) f = 2350 MHz

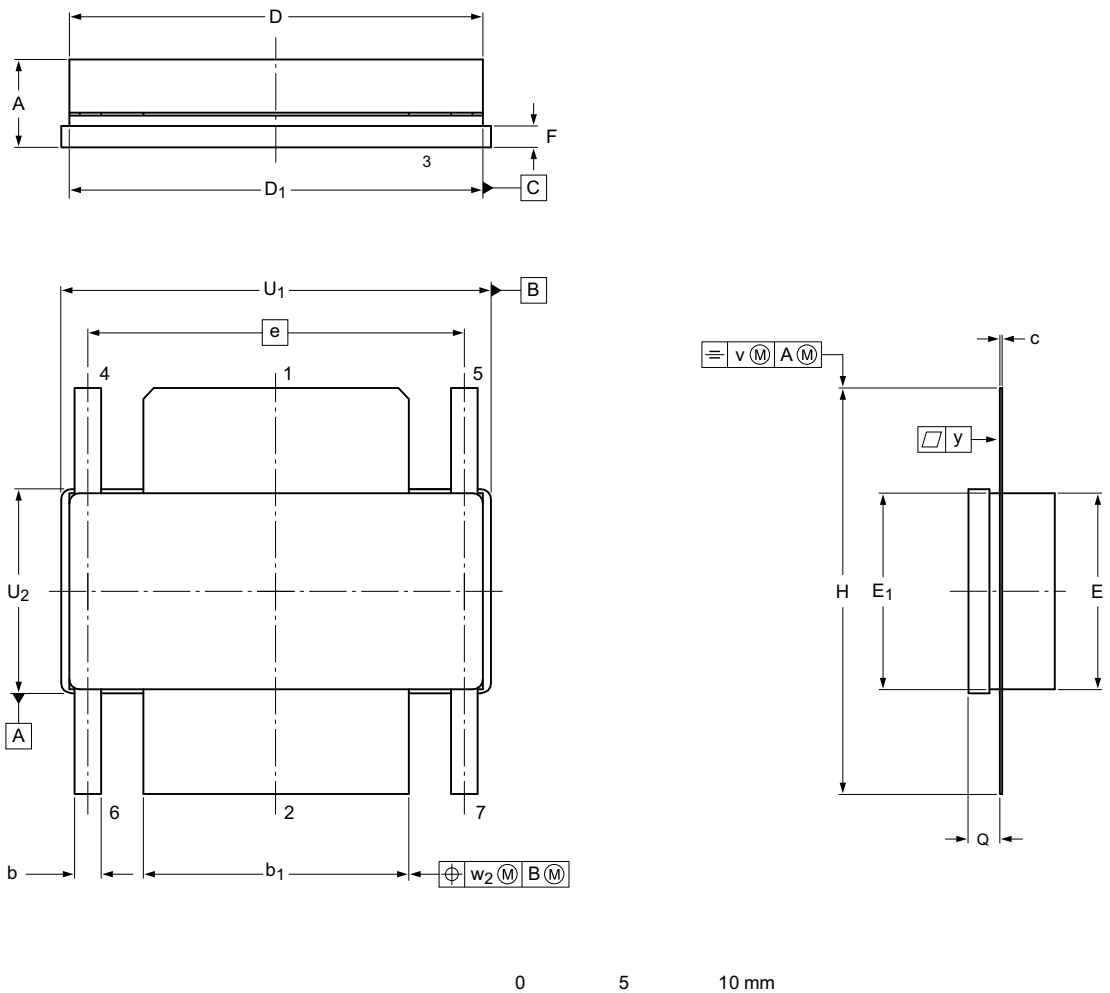
(3) f = 2395 MHz

Fig 20. Adjacent channel power ratio (10 MHz) as a function of output power; typical values

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8. Package outline

Earless flanged ceramic package; 6 leads **SOT1244B**



Dimensions

Unit(1)		A	b	b_1	c	D	D_1	e	E	E_1	F	H	Q(2)	U_1	U_2	v	w_2	y
mm	max	4.75	1.41	12.83	0.18	20.02	19.96		9.53	9.53	1.14	19.94	1.70	20.70	9.91	0.25	0.25	0.25
	nom							18.03										
	min	3.45	1.14	12.57	0.10	19.61	19.66		9.27	9.27	0.89	18.92	1.45	20.45	9.65			
inches	max	0.187	0.055	0.505	0.007	0.788	0.786		0.375	0.375	0.045	0.785	0.067	0.815	0.39	0.01	0.01	0.01
	nom							0.710										
	min	0.136	0.045	0.495	0.004	0.772	0.774		0.365	0.365	0.035	0.745	0.057	0.805	0.38			

Note
1. Millimeter dimensions are derived from the original inch dimensions.
2. Dimension is measured 0.030 inch (0.76 mm) from body.

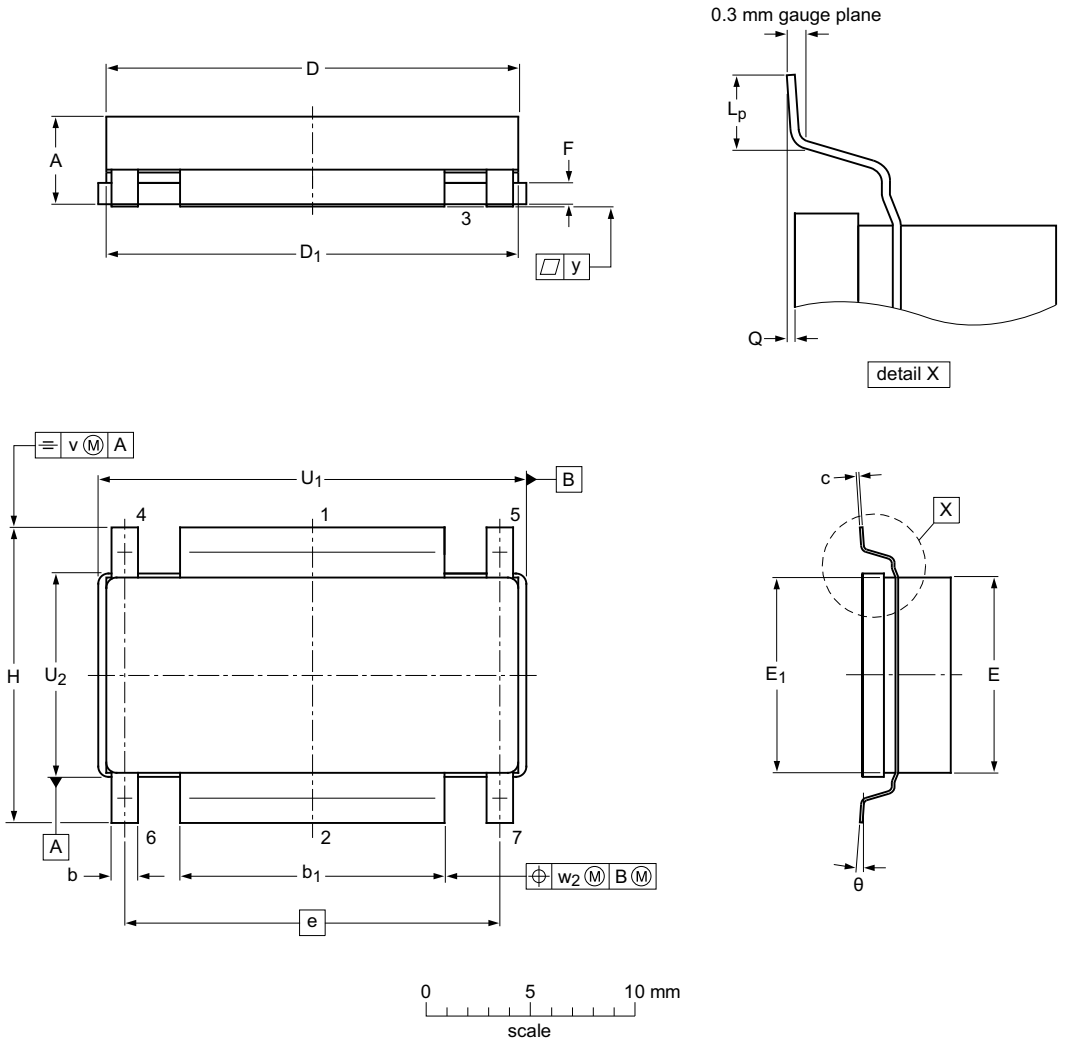
sot1244b_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1244B						~~12-04-18~~ 12-05-07

Fig 21. Package outline SOT1244B

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Earless flanged ceramic package; 6 leads **SOT1244C**



Dimensions

Unit(1)		A	b	b_1	c	D	D_1	e	E	E_1	F	H	L_p	Q	U_1	U_2	v	w_2	y	θ
mm	max	4.75	1.41	12.83	0.18	20.02	19.96		9.53	9.53	1.14	14.3	1.38	0.195	20.70	9.91	0.25	0.25	0.15	7°
	nom							18.03												
	min	3.45	1.14	12.57	0.10	19.61	19.66		9.27	9.27	0.89	14.1	0.98	0.055	20.45	9.65				0°
inches	max	0.187	0.055	0.505	0.007	0.788	0.786		0.375	0.375	0.045	0.563	0.055	0.008	0.815	0.39	0.01	0.01	0.006	7°
	nom							0.710												
	min	0.136	0.045	0.495	0.004	0.772	0.774		0.365	0.365	0.035	0.555	0.039	0.002	0.805	0.38				0°

Note
1. Millimeter dimensions are derived from the original inch dimensions.

sot1244c_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1244C						~~12-05-10~~ 12-05-30

Fig 22. Package outline SOT1244C

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9. 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.

10. Abbreviations

Table 10. Abbreviations

Acronym	Description
3GPP	3rd Generation Partnership Project
CCDF	Complementary Cumulative Distribution Function
CW	Continuous Wave
DPCH	Dedicated Physical CHannel
ESD	ElectroStatic Discharge
IS-95	Interim Standard 95
LDMOS	Laterally Diffused Metal Oxide Semiconductor
MTF	Median Time to Failure
PAR	Peak-to-Average Ratio
SMD	Surface Mounted Device
VBW	Video BandWidth
VSWR	Voltage Standing Wave Ratio
W-CDMA	Wideband Code Division Multiple Access

11. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BLF8G24LS-150V_8G24LS-150GV#4	20150901	Product data sheet		BLF8G24LS-150V_ 8G24LS-150GV v.3
Modifications:	• The format of this document has been redesigned to comply with the new identity guidelines of Ampleon. • Legal texts have been adapted to the new company name where appropriate.			
BLF8G24LS-150V_8G24LS-150GV v.3	20140512	Product data sheet	-	BLF8G24LS-150V_ 8G24LS-150GV v.2
BLF8G24LS-150V_8G24LS-150GV v.2	20140224	Objective data sheet	-	BLF8G24LS-150V_ 8G24LS-150GV v.1
BLF8G24LS-150V_8G24LS-150GV v.1	20131104	Objective data sheet	-	-

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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.
Product [short] data sheet	Production	This document contains the product specification.

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.ampleon.com.

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14. Contents

1 Product profile 1
1.1 General description 1
1.2 Features and benefits 1
1.3 Applications 1
2 Pinning information 2
3 Ordering information 2
4 Limiting values 2
5 Thermal characteristics 3
6 Characteristics 3
7 Test information 3
7.1 Ruggedness in class-AB operation 3
7.2 Impedance information 4
7.3 VBW in a class-AB operation 5
7.4 Test circuit 5
7.5 Graphical data 6
7.5.1 Pulsed CW 6
7.5.2 IS-95 7
7.5.3 1-Carrier W-CDMA 8
7.5.4 2-Carrier W-CDMA 9
8 Package outline 11
9 Handling information 13
10 Abbreviations 13
11 Revision history 13
12 Legal information 14
12.1 Data sheet status 14
12.2 Definitions 14
12.3 Disclaimers 14
12.4 Trademarks 15
13 Contact information 15
14 Contents 16

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