BLC9G27XS-380AVT

Power LDMOS transistor

Rev. 2 — 24 November 2017

AMPLEON

Product data sheet

1. Product profile

1.1 General description

380 W LDMOS packaged asymmetrical Doherty power transistor for base station applications at frequencies from 2496 MHz to 2690 MHz.

Table 1. Typical performance

Typical RF performance at T_{case} = 25 °C in the Doherty demo board.

Test signal	f	V_{DS}	$P_{L(AV)}$	G_p	η_D	ACPR
	(MHz)	(V)	(W)	(dB)	(%)	(dBc)
1-carrier W-CDMA	2620 to 2690	30	63	15.5	43	−33 [1]

[1] Test signal: 3GPP test model 1; 1 to 64 DPCH; PAR = 7.2 dB at 0.01 % probability on CCDF.

1.2 Features and benefits

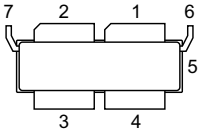
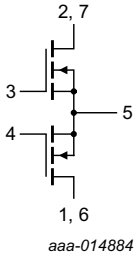
- Excellent ruggedness
- High efficiency
- Low thermal resistance providing excellent thermal stability
- Decoupling leads to enable improved video bandwidth
- Lower output capacitance for improved performance in Doherty applications
- Designed for low memory effects providing excellent pre-distortability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

1.3 Applications

- RF power amplifier for W-CDMA base stations and multi carrier applications in the 2496 MHz to 2690 MHz frequency range

2. Pinning information

Table 2. Pinning

Pin	Description	Simplified outline	Graphic symbol
1	drain2 (peak)		
2	drain1 (main)		
3	gate1 (main)		
4	gate2 (peak)		
5	source [1]		
6	video decoupling (peak)		
7	video decoupling (main)		

[1] Connected to flange.

3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
BLC9G27XS-380AVT	-	air cavity plastic earless flanged package; 6 leads	SOT1258-4

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
T_{case}	case temperature	operating [1]	−40	+125	°C

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

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; I_{Dq} = 600 mA; $V_{GS(amp)peak}$ = 0.5 V;		
		P_L = 63 W	0.230	K/W
		P_L = 100 W	0.201	K/W

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6. Characteristics

Table 6. DC characteristics

T_j = 25 °C unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
Main device						
$V_{(BR)DSS}$	drain-source breakdown voltage	V_{GS} = 0 V; I_D = 1.2 mA	65	-	76.5	V
$V_{GS(th)}$	gate-source threshold voltage	V_{DS} = 10 V; I_D = 120 mA	1.5	2.0	2.5	V
V_{GSq}	gate-source quiescent voltage	V_{DS} = 28 V; I_D = 600 mA	1.7	2.2	2.7	V
I_{DSS}	drain leakage current	V_{GS} = 0 V; V_{DS} = 32 V	-	-	2.8	μA
I_{DSX}	drain cut-off current	V_{GS} = $V_{GS(th)}$ + 3.75 V; V_{DS} = 10 V	-	24	-	A
I_{GSS}	gate leakage current	V_{GS} = 11 V; V_{DS} = 0 V	-	-	280	nA
g_{fs}	forward transconductance	V_{DS} = 10 V; I_D = 6000 mA	-	9	-	S
$R_{DS(on)}$	drain-source on-state resistance	V_{GS} = $V_{GS(th)}$ + 3.75 V; I_D = 4.2 A	-	112	197.5	mΩ
Peak device						
$V_{(BR)DSS}$	drain-source breakdown voltage	V_{GS} = 0 V; I_D = 1.8 mA	65	-	76.5	V
$V_{GS(th)}$	gate-source threshold voltage	V_{DS} = 10 V; I_D = 180 mA	1.5	2.0	2.5	V
V_{GSq}	gate-source quiescent voltage	V_{DS} = 28 V; I_D = 550 mA	1.7	2.2	2.7	V
I_{DSS}	drain leakage current	V_{GS} = 0 V; V_{DS} = 32 V	-	-	2.8	μA
I_{DSX}	drain cut-off current	V_{GS} = $V_{GS(th)}$ + 3.75 V; V_{DS} = 10 V	-	34	-	A
I_{GSS}	gate leakage current	V_{GS} = 11 V; V_{DS} = 0 V	-	-	280	nA
g_{fs}	forward transconductance	V_{DS} = 10 V; I_D = 9000 mA	-	13	-	S
$R_{DS(on)}$	drain-source on-state resistance	V_{GS} = $V_{GS(th)}$ + 3.75 V; I_D = 6.3 A	-	78	135	mΩ

Table 7. RF characteristics

Test signal: 1-carrier W-CDMA; PAR = 7.2 dB at 0.01 % probability on the CCDF; 3GPP test model 1; 1 to 64 DPCH; f_1 = 2620 MHz; f_2 = 2690 MHz; RF performance at V_{DS} = 30 V; I_{Dq} = 600 mA (main); $V_{GS(amp)peak}$ = 0.65 V; T_{case} = 25 °C; unless otherwise specified; in an asymmetrical Doherty production test circuit at frequencies from 2620 MHz to 2690 MHz.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
G_p	power gain	$P_{L(AV)}$ = 63 W	14.3	15.2	-	dB
RL_{in}	input return loss	$P_{L(AV)}$ = 63 W	-	−15	−11	dB
η_D	drain efficiency	$P_{L(AV)}$ = 63 W	37.5	41.5	-	%
ACPR	adjacent channel power ratio	$P_{L(AV)}$ = 63 W	-	−39	−34	dBc

Table 8. RF characteristics

Test signal: pulsed CW; t_p = 100 μs; δ = 10 %; f = 2690 MHz; RF performance at V_{DS} = 30 V; I_{Dq} = 600 mA (main); $V_{GS(amp)peak}$ = 0.65 V; T_{case} = 25 °C; unless otherwise specified; in an asymmetrical Doherty production test circuit at frequencies from 2620 MHz to 2690 MHz.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$P_{L(3dB)}$	output power at 3 dB gain compression		300	330	-	W

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7. Test information

7.1 Ruggedness in Doherty operation

The BLC9G27XS-380AVT is capable of withstanding a load mismatch corresponding to a VSWR = 10 : 1 through all phases under the following conditions:

- V_{DS} = 30 V; I_{Dq} = 600 mA (main); $V_{GS(amp)peak}$ = 0.65 V; $P_{L(AV)}$ = 125 W (1-carrier W-CDMA, 100 % clipping); f = 2620 MHz
- V_{DS} = 30 V; I_{Dq} = 600 mA (main); $V_{GS(amp)peak}$ = 0.65 V; P_L = 150 W (CW); f = 2500 MHz
- V_{DS} = 32 V; I_{Dq} = 600 mA (main); $V_{GS(amp)peak}$ = 0.65 V; $P_{L(AV)}$ = 80 W (1-carrier W-CDMA); f = 2500 MHz

7.2 Impedance information

Table 9. Typical impedance of main device

Measured load-pull data of main device; I_{Dq} = 600 mA (main); V_{DS} = 30 V.

f	Z_S [1]	Z_L [1]	P_L [2]	η_D [2]	G_p [2]
(MHz)	(Ω)	(Ω)	(W)	(%)	(dB)
Maximum power load					
2500	1.9 – j5.8	1.3 – j4.2	172	54.3	16.5
2600	3.0 – j6.3	1.3 – j4.1	170	54.2	16.5
2700	4.9 – j6.8	1.3 – j4.1	166	55.1	17.6
Maximum drain efficiency load					
2500	1.9 – j5.8	2.6 – j2.9	126	65.5	18.0
2600	3.0 – j6.3	2.4 – j3.3	133	63.9	17.7
2700	4.9 – j6.8	1.9 – j2.8	116	62.6	18.4

[1] Z_S and Z_L defined in Figure 1.

[2] at 3 dB gain compression.

Table 10. Typical impedance of peak device

Measured load-pull data of peak device; I_{Dq} = 960 mA (peak); V_{DS} = 30 V.

f	Z_S [1]	Z_L [1]	P_L [2]	η_D [2]	G_p [2]
(MHz)	(Ω)	(Ω)	(W)	(%)	(dB)
Maximum power load					
2500	2.5 – j6.8	3.3 – j4.5	236	58.8	18.0
2600	4.7 – j7.2	3.3 – j4.3	232	57.1	17.7
2700	8.5 – j5.3	3.3 – j4.3	223	55.2	18.4
Maximum drain efficiency load					
2500	2.5 – j6.8	3.8 – j2.1	178	62.8	19.6
2600	4.7 – j7.2	3.2 – j2.8	195	60.3	18.8
2700	8.5 – j5.3	3.3 – j2.8	184	60.2	19.5

[1] Z_S and Z_L defined in Figure 1.

[2] at 3 dB gain compression.

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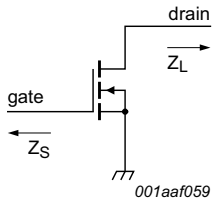


Fig 1. Definition of transistor impedance

7.3 Recommended impedances for Doherty design

Table 11. Typical impedance of main device at 1 : 1 load

Measured load-pull data of main device; I_{Dq} = 600 mA (main); V_{DS} = 30 V.

f	Z_S [1]	Z_L [1]	P_L [2]	η_D [3]	G_p [3]
(MHz)	(Ω)	(Ω)	(dBm)	(%)	(dB)
2500	1.9 – j5.8	2.0 – j3.9	52.2	43.0	18.0
2600	3.0 – j6.3	2.3 – j3.7	51.8	43.7	18.8
2700	4.9 – j6.8	2.0 – j3.9	51.5	44.5	19.7

[1] Z_S and Z_L defined in Figure 1.

[2] at 3 dB gain compression.

[3] at $P_{L(AV)}$ = 48 dBm.

Table 12. Typical impedance of main device at 1 : 2 load

Measured load-pull data of main device; I_{Dq} = 600 mA (main); V_{DS} = 30 V.

f	Z_S [1]	Z_L [1]	P_L [2]	η_D [3]	G_p [3]
(MHz)	(Ω)	(Ω)	(dBm)	(%)	(dB)
2500	1.9 – j5.8	3.2 – j2.5	50.0	55.8	20.2
2600	3.0 – j6.3	2.6 – j2.6	49.9	54.6	20.3
2700	4.9 – j6.8	2.4 – j2.7	49.8	54.5	21.0

[1] Z_S and Z_L defined in Figure 1.

[2] at 3 dB gain compression.

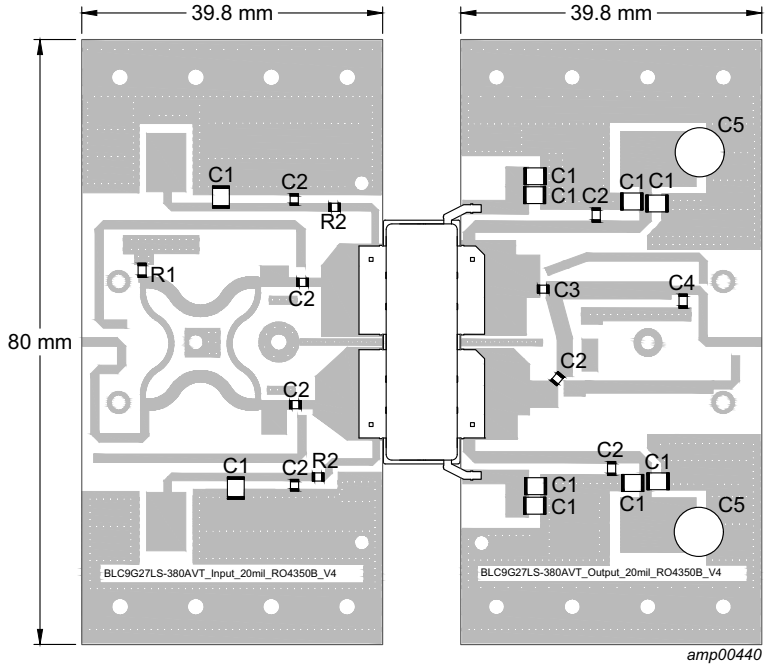
[3] at $P_{L(AV)}$ = 48 dBm.

7.4 VBW in Doherty operation

The BLC9G27XS-380AVT shows above 100 MHz (typical) video bandwidth in Doherty test circuit in 2655 MHz at V_{DS} = 30 V; I_{Dq} = 550 mA and $V_{GS(amp)peak}$ = 0.8 V.

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7.5 Test circuit



Printed-Circuit Board (PCB): Rogers RO4350B; ε_r = 3.5; thickness = 0.508 mm; thickness copper plating = 35 μm.

See Table 13 for a list of components.

Fig 2. Component layout

Table 13. List of components

See Figure 2 for component layout.

Component	Description	Value	Remarks
C1	multilayer ceramic chip capacitor	10 μF, 50 V [1]	Murata
C2	multilayer ceramic chip capacitor	10 pF [2]	ATC 600F
C3	multilayer ceramic chip capacitor	3.9 pF [2]	ATC 600F
C4	multilayer ceramic chip capacitor	0.3 pF [2]	ATC 600F
C5	electrolytic capacitor	1000 μF, 100 V	
R1	resistor	50 Ω	SMD 0805
R2	resistor	5.1 Ω	SMD 0805

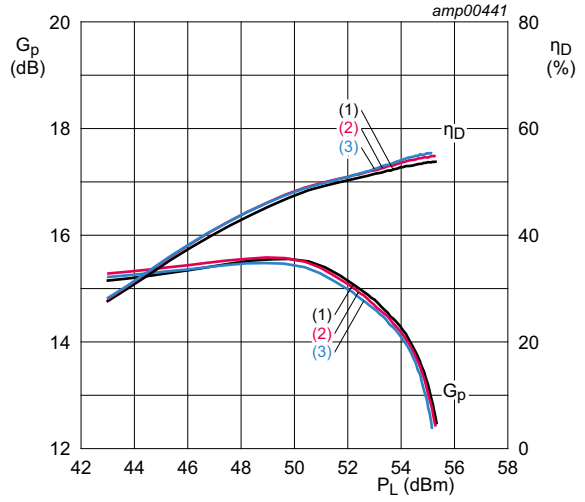
[1] Murata or capacitor of same quality

[2] American Technical Ceramics type 600F or capacitor of same quality

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7.6 Graphical data

7.6.1 Pulsed CW



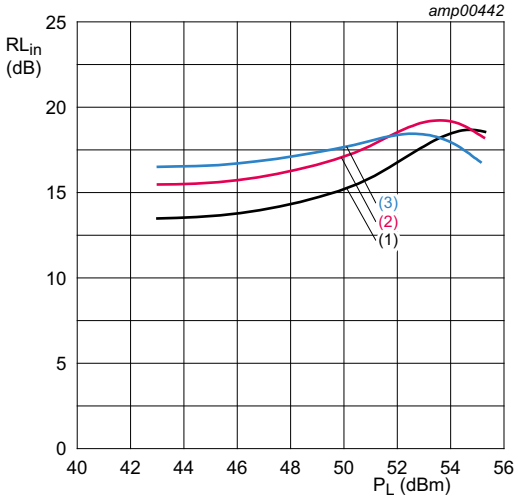
V_{DS} = 30 V; I_{Dq} = 600 mA (main device); $V_{GS(amp)peak}$ = 0.65 V.

(1) f = 2620 MHz

(2) f = 2655 MHz

(3) f = 2690 MHz

Fig 3. Power gain and drain efficiency as function of output power; typical values



V_{DS} = 30 V; I_{Dq} = 600 mA (main device); $V_{GS(amp)peak}$ = 0.65 V.

(1) f = 2620 MHz

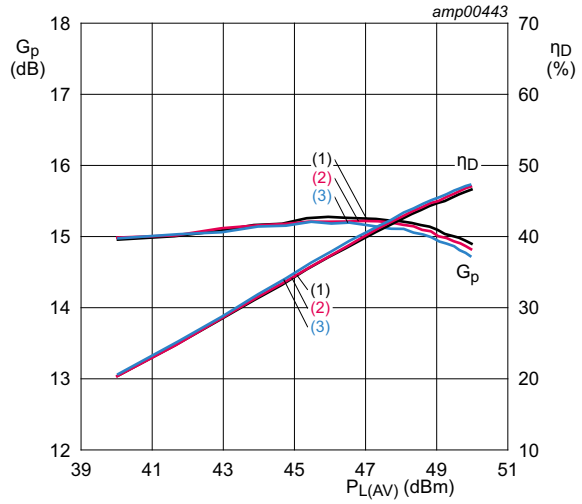
(2) f = 2655 MHz

(3) f = 2690 MHz

Fig 4. Input return loss as a function of output power; typical values

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7.6.2 1-Carrier W-CDMA



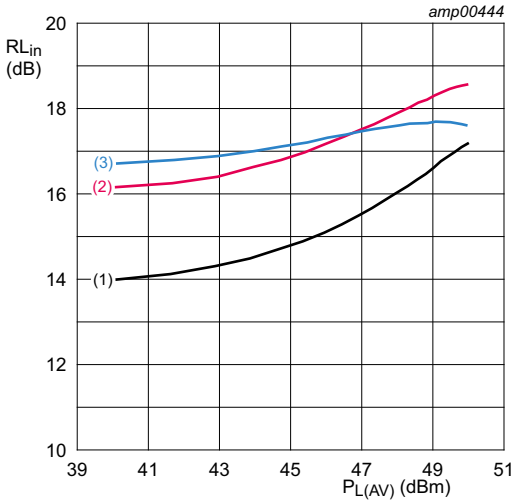
V_{DS} = 30 V; I_{Dq} = 600 mA (main device); $V_{GS(amp)peak}$ = 0.65 V.

(1) f = 2620 MHz

(2) f = 2655 MHz

(3) f = 2690 MHz

Fig 5. Power gain and drain efficiency as function of average output power; typical values



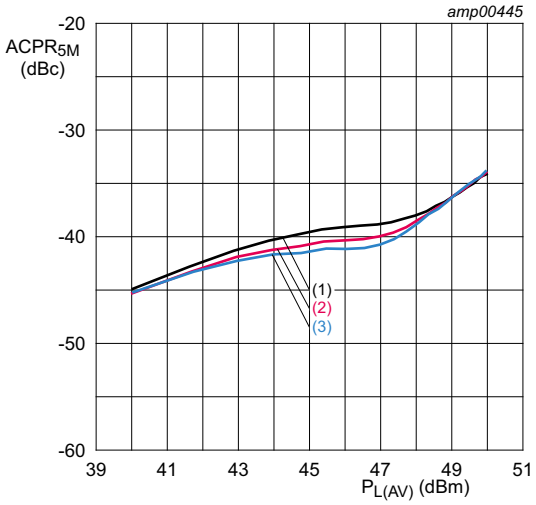
V_{DS} = 30 V; I_{Dq} = 600 mA (main device); $V_{GS(amp)peak}$ = 0.65 V.

(1) f = 2620 MHz

(2) f = 2655 MHz

(3) f = 2690 MHz

Fig 6. Input return loss as a function of average output power; typical values



V_{DS} = 30 V; I_{Dq} = 600 mA (main device); $V_{GS(amp)peak}$ = 0.65 V.

(1) f = 2620 MHz

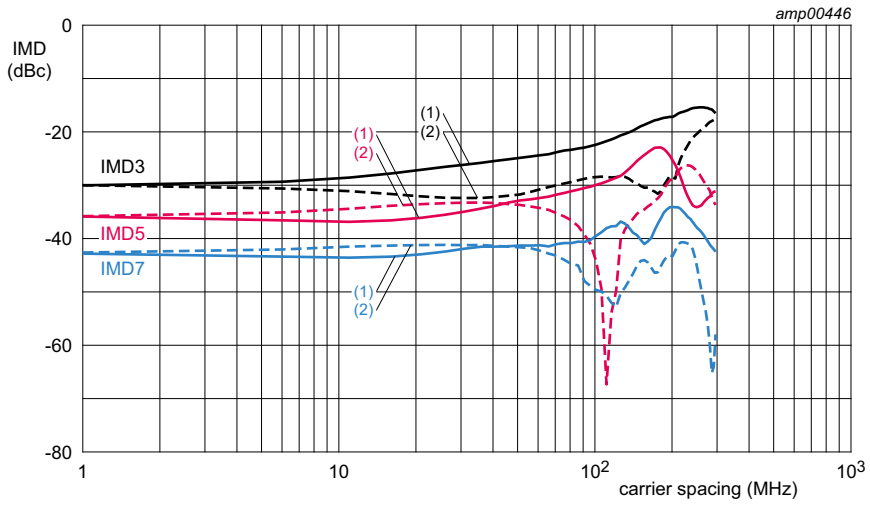
(2) f = 2655 MHz

(3) f = 2690 MHz

Fig 7. Adjacent channel power ratio (5 MHz) as a function of average output power; typical values

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7.6.3 2-Tone VBW



V_{DS} = 30 V; I_{Dq} = 550 mA (main device); $V_{GS(amp)peak}$ = 0.8 V; f_c = 2655 MHz.

(1) IMD low

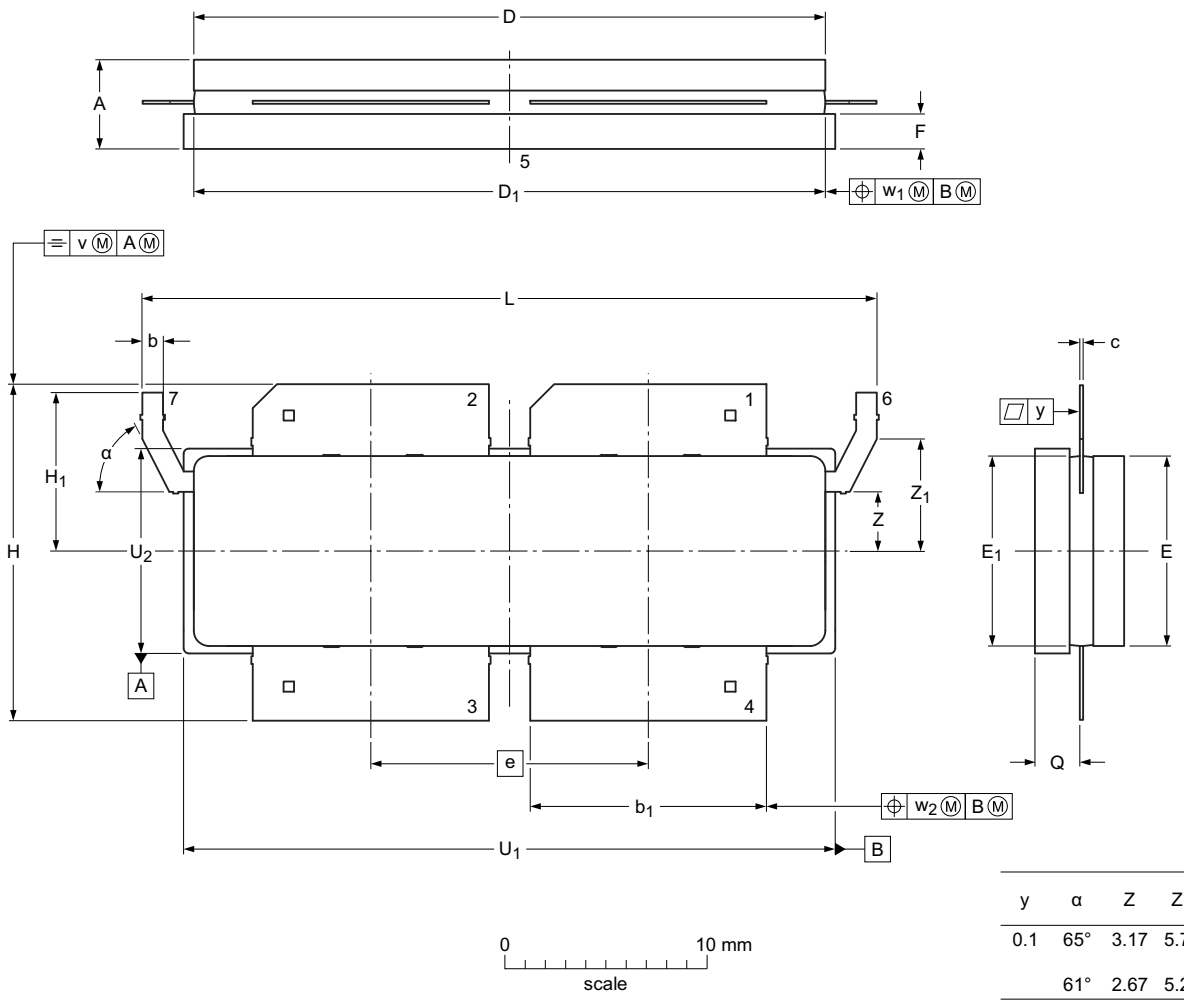
(2) IMD high

Fig 8. VBW capability in Doherty test circuit

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8. Package outline

Air cavity plastic earless flanged package; 6 leads **SOT1258-4**



y	α	Z	Z_1
0.1	65°	3.17	5.79
	61°	2.67	5.29

Dimensions

Unit		A	b	b_1	c	D	D_1	E	E_1	e	L	F	H	H_1	Q(1)	U_1	U_2	v	w_1	w_2
mm	max	4.52	1.12	11.78	0.18	31.44	31.34	9.60	9.50	13.72	36.42	1.73	16.71	8.12	2.25	32.33	10.23	0.5	0.5	0.5
	nom																			
	min	4.12	0.91	11.58	0.13	31.04	31.14	9.20	9.30		36.22	1.53	16.51	7.62	2.03	32.13	10.03			

Note
1. Dimension Q is measured 0.1 mm away from the flange.
2. Ringframe and/or ringframe glue shall not overhang at the side of the flange.

sot1258-4_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1258-4						17-08-31

Fig 9. Package outline SOT1258-4

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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.

Table 14. ESD sensitivity

ESD model	Class
Charged Device Model (CDM); According to ANSI/ESDA/JEDEC standard JS-002	C2A [1]
Human Body Model (HBM); According to ANSI/ESDA/JEDEC standard JS-001	2 [2]

[1] CDM classification C2A is granted to any part that passes after exposure to an ESD pulse of 500 V, but fails after exposure to an ESD pulse of 750 V.

[2] HBM classification 2 is granted to any part that passes after exposure to an ESD pulse of 2000 V, but fails after exposure to an ESD pulse of 4000 V.

10. Abbreviations

Table 15. Abbreviations

Acronym	Description
3GPP	3rd Generation Partnership Project
CCDF	Complementary Cumulative Distribution Function
CW	Continuous Wave
DPCH	Dedicated Physical CHannel
ESD	ElectroStatic Discharge
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 16. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BLC9G27XS-380AVT v.2	20171124	Product data sheet	-	BLC9G27XS-380AVT v.1
Modifications:	• Table 2 on page 2: changed simplified version drawing SOT1258-7 to SOT1258-4 • Table 3 on page 2: changed version SOT1258-7 to SOT1258-4 • Figure 2 on page 6: updated figure • Figure 9 on page 10: changed package outline drawing SOT1258-7 to SOT1258-4			
BLC9G27XS-380AVT v.1	20170926	Product data sheet	-	-

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12. Legal information

12.1 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.
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 2
6 Characteristics 3
7 Test information 4
7.1 Ruggedness in Doherty operation 4
7.2 Impedance information 4
7.3 Recommended impedances for Doherty design 5
7.4 VBW in Doherty operation 5
7.5 Test circuit 6
7.6 Graphical data 7
7.6.1 Pulsed CW 7
7.6.2 1-Carrier W-CDMA 8
7.6.3 2-Tone VBW 9
8 Package outline 10
9 Handling information 11
10 Abbreviations 11
11 Revision history 11
12 Legal information 12
12.1 Data sheet status 12
12.2 Definitions 12
12.3 Disclaimers 12
12.4 Trademarks 13
13 Contact information 13
14 Contents 14

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