

# BLU6H0410L-600P; BLU6H0410LS-600P

Power LDMOS transistor

Rev. 3 — 1 September 2015

AMPLEON

Product data sheet

## 1. Product profile

### 1.1 General description

A 600 W LDMOS RF power transistor for radar transmitter applications and industrial applications in the frequency range of 400 MHz to 900 MHz.

**Table 1. Application information**

Typical RF performance at  $V_{DS} = 50$  V; in a common source 860 MHz narrowband test circuit; unless otherwise specified.

Test signal	f (MHz)	$I_{DQ}$ (mA)	$P_{L(AV)}$ (W)	$P_{L(M)}$ (W)	$G_p$ (dB)	$\eta_D$ (%)	IMD3 (dBc)
pulsed, class-AB [1]	860	1.3	-	600	20	58	-

[1] Measured at  $\delta = 10$  %;  $t_p = 1$  ms.

### 1.2 Features and benefits

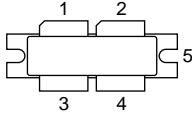
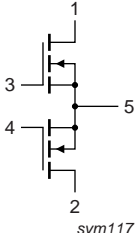
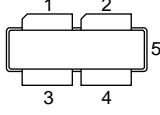
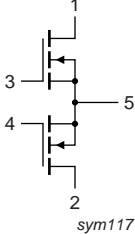
- Excellent ruggedness ( $VSWR \geq 40 : 1$  through all phases)
- Optimum thermal behavior and reliability,  $R_{th(j-c)} = 0.15$  K/W
- High power gain
- High efficiency
- Internal input matching for high gain and optimum broadband operation
- Excellent reliability
- Easy power control
- Compliant to Directive 2002/95/EC, regarding Restriction of Hazardous Substances (RoHS)

### 1.3 Applications

- Power amplifier for radar transmitter applications in the 400 MHz to 900 MHz frequency range

## 2. Pinning information

Table 2. Pinning

Pin	Description	Simplified outline	Graphic symbol
<b>BLU6H0410L-600P (SOT539A)</b>			
1	drain1		 sym117
2	drain2		
3	gate1		
4	gate2		
5	source		
<b>BLU6H0410LS-600P (SOT539B)</b>			
1	drain1		 sym117
2	drain2		
3	gate1		
4	gate2		
5	source		

[1] Connected to flange.

## 3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
BLU6H0410L-600P	-	flanged balanced LDMOST ceramic package; 2 mounting holes; 4 leads	SOT539A
BLU6H0410LS-600P	-	earless flanged balanced LDMOST ceramic package; 4 leads	SOT539B

## 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		-	110	V
$V_{GS}$	gate-source voltage		-0.5	+11	V
$T_{stg}$	storage temperature		-65	+150	°C
$T_j$	junction temperature		-	200	°C

## 5. Thermal characteristics

Table 5. Thermal characteristics

Symbol	Parameter	Conditions	Typ	Unit
$R_{th(j-c)}$	thermal resistance from junction to case	$T_j = 150\text{ }^{\circ}\text{C}$	[1] 0.15	K/W
$Z_{th(j-c)}$	transient thermal impedance from junction to case	$T_j = 150\text{ }^{\circ}\text{C}$		
		$t_p = 100\text{ }\mu\text{s}; \delta = 10\text{ }\%$	0.020	K/W
		$t_p = 200\text{ }\mu\text{s}; \delta = 10\text{ }\%$	0.023	K/W
		$t_p = 300\text{ }\mu\text{s}; \delta = 10\text{ }\%$	0.025	K/W
		$t_p = 500\text{ }\mu\text{s}; \delta = 10\text{ }\%$	0.028	K/W
		$t_p = 100\text{ }\mu\text{s}; \delta = 20\text{ }\%$	0.035	K/W

[1]  $R_{th(j-c)}$  is measured under RF conditions.

## 6. Characteristics

Table 6. DC characteristics

$T_j = 25\text{ }^{\circ}\text{C}$ ; per section unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{(BR)DSS}$	drain-source breakdown voltage	$V_{GS} = 0\text{ V}; I_D = 2.4\text{ mA}$	[1] 110	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	$V_{DS} = 10\text{ V}; I_D = 240\text{ mA}$	[1] 1.4	1.9	2.4	V
$I_{DSS}$	drain leakage current	$V_{GS} = 0\text{ V}; V_{DS} = 50\text{ V}$	-	-	2.8	$\mu\text{A}$
$I_{DSX}$	drain cut-off current	$V_{GS} = V_{GS(th)} + 3.75\text{ V}; V_{DS} = 10\text{ V}$	-	36	-	A
$I_{GSS}$	gate leakage current	$V_{GS} = 10\text{ V}; V_{DS} = 0\text{ V}$	-	-	280	nA
$R_{DS(on)}$	drain-source on-state resistance	$V_{GS} = V_{GS(th)} + 3.75\text{ V}; I_D = 8.5\text{ A}$	[1] -	143	-	m $\Omega$
$C_{iss}$	input capacitance	$V_{GS} = 0\text{ V}; V_{DS} = 50\text{ V}; f = 1\text{ MHz}$	[2] -	220	-	pF
$C_{oss}$	output capacitance	$V_{GS} = 0\text{ V}; V_{DS} = 50\text{ V}; f = 1\text{ MHz}$	-	74	-	pF
$C_{rss}$	reverse transfer capacitance	$V_{GS} = 0\text{ V}; V_{DS} = 50\text{ V}; f = 1\text{ MHz}$	-	1.2	-	pF

[1]  $I_D$  is the drain current.

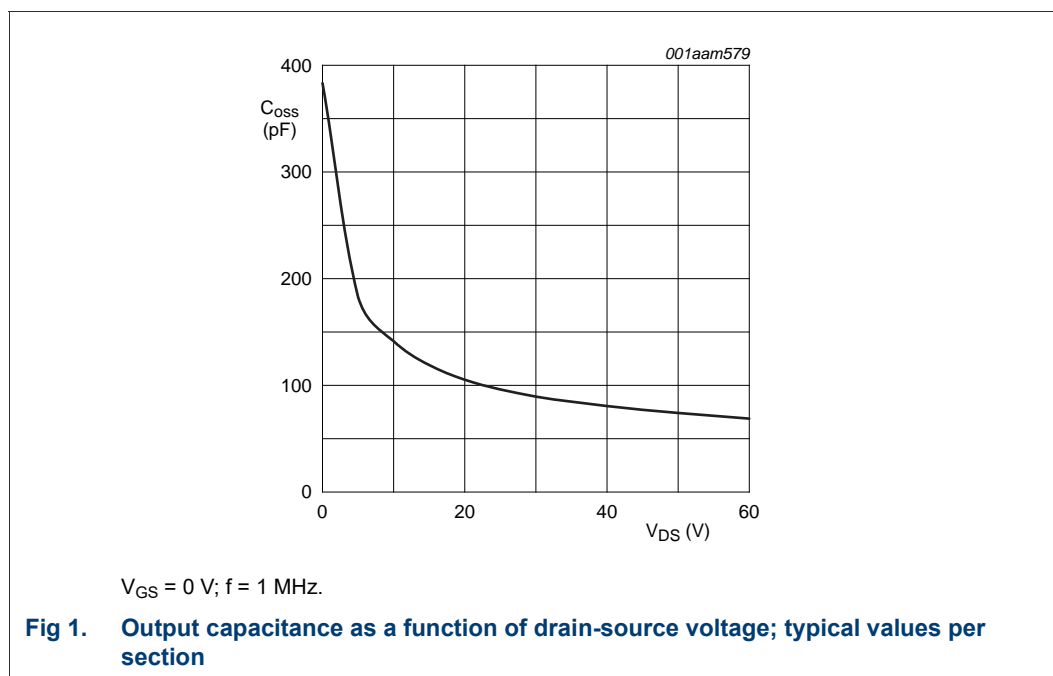
[2] Capacitance values without internal matching.

**Table 7. RF characteristics**

Test signal: 2-Tone;  $T_{case} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified; in a class-AB Ampleon production narrowband test circuit.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{DS}$	drain-source voltage		-	50	-	V
$I_{Dq}$	quiescent drain current		[1]	1.3	-	A
$P_{L(AV)}$	average output power	$f_1 = 860\text{ MHz};$ $f_2 = 860.1\text{ MHz}$	250	-	-	W
$G_p$	power gain	$f_1 = 860\text{ MHz};$ $f_2 = 860.1\text{ MHz}$	20	21	-	dB
$\eta_D$	drain efficiency	$f_1 = 860\text{ MHz};$ $f_2 = 860.1\text{ MHz}$	42	46	-	%
IMD3	third-order intermodulation distortion	$f_1 = 860\text{ MHz};$ $f_2 = 860.1\text{ MHz}$	-	-32	-28	dBc

[1]  $I_{Dq}$  for total device.



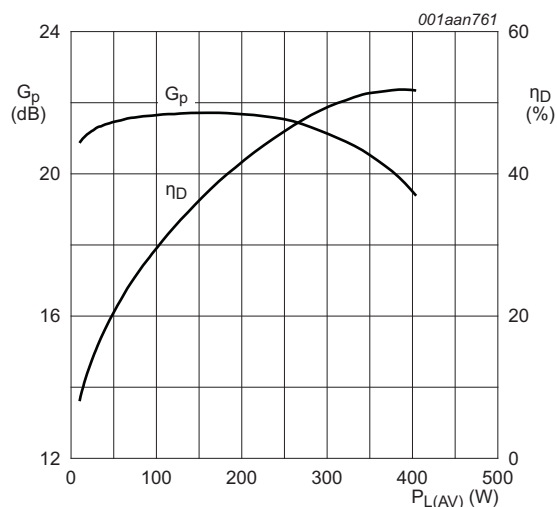
## 6.1 Ruggedness in class-AB operation

The BLU6H0410L-600P and BLU6H0410LS-600P are capable of withstanding a load mismatch corresponding to  $VSWR \geq 40 : 1$  through all phases under the following conditions:  $V_{DS} = 50\text{ V}; f = 860\text{ MHz}$  at rated power.

## 7. Application information

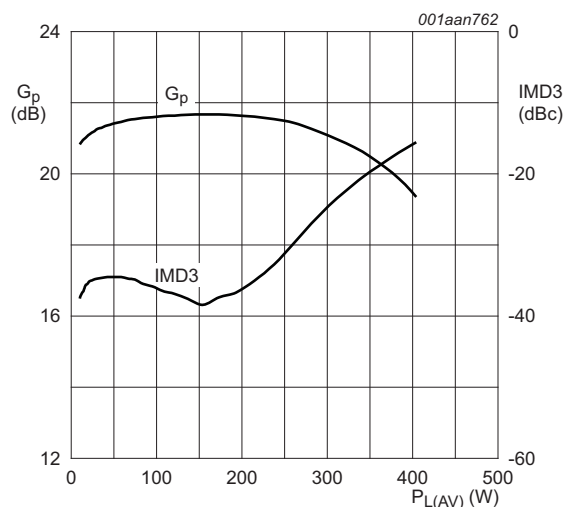
### 7.1 Narrowband RF figures

#### 7.1.1 2-Tone



$V_{DS} = 50$  V;  $I_{DQ} = 1.3$  A; measured in a common source narrowband 860 MHz test circuit.

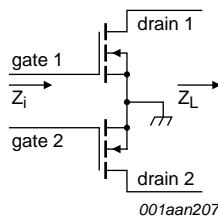
**Fig. 2.** 2-Tone power gain and drain efficiency as function of load power; typical values



$V_{DS} = 50$  V;  $I_{DQ} = 1.3$  A; measured in a common source narrowband 860 MHz test circuit.

**Fig. 3.** 2-Tone power gain and third order intermodulation distortion as function of load power; typical values

### 7.2 Impedance information



**Fig. 4.** Definition of transistor impedance

**Table 8.** Typical push-pull impedance

Simulated  $Z_i$  and  $Z_L$  device impedance; impedance info at  $V_{DS} = 50$  V and  $P_{L(M)} = 600$  W.

f MHz	$Z_i$ $\Omega$	$Z_L$ $\Omega$
300	$0.617 - j1.715$	$4.989 + j1.365$
325	$0.635 - j1.355$	$4.867 + j1.424$
350	$0.655 - j1.026$	$4.741 + j1.472$
375	$0.677 - j0.721$	$4.614 + j1.511$

**Table 8. Typical push-pull impedance ...continued**

Simulated  $Z_i$  and  $Z_L$  device impedance; impedance info at  $V_{DS} = 50$  V and  $P_{L(M)} = 600$  W.

<b>f</b> <b>MHz</b>	<b><math>Z_i</math></b> <b><math>\Omega</math></b>	<b><math>Z_L</math></b> <b><math>\Omega</math></b>
400	0.702 – j0.435	4.486 + j1.540
425	0.731 – j0.164	4.357 + j1.559
450	0.762 + j0.096	4.228 + j1.570
475	0.798 + j0.347	4.100 + j1.573
500	0.839 + j0.592	4.974 + j1.567
525	0.884 + j0.833	3.850 + j1.554
550	0.936 + j1.072	3.728 + j1.534
575	0.995 + j1.310	3.608 + j1.508
600	1.063 + j1.549	3.492 + j1.475
625	1.141 + j1.791	3.378 + j1.437
650	1.230 + j2.037	3.268 + j1.394
675	1.334 + j2.289	3.161 + j1.347
700	1.456 + j2.548	3.057 + j1.295
725	1.599 + j2.814	2.957 + j1.239
750	1.768 + j3.090	2.860 + j1.180
775	1.971 + j3.376	2.676 + j1.118
800	2.214 + j3.671	2.677 + j1.053
825	2.510 + j3.975	2.591 + j0.985
850	2.873 + j4.282	2.508 + j0.915
875	3.320 + j4.584	2.428 + j0.843
900	3.875 + j4.865	2.351 + j0.770
925	4.562 + j5.095	2.277 + j0.695
950	5.409 + j5.223	2.206 + j0.618
975	6.426 + j5.166	2.138 + j0.540
1000	7.587 + j4.807	2.073 + j0.461

## 8. Test information

**Table 9. List of components**

For test circuit, see [Figure 5](#), [Figure 6](#) and [Figure 7](#).

Component	Description	Value	Remarks
B1, B2	semi rigid coax	25 $\Omega$ ; 49.5 mm	UT-090C-25 (EZ 90-25)
C1	multilayer ceramic chip capacitor	12 pF	<a href="#">[1]</a>
C2, C3, C4, C5, C6	multilayer ceramic chip capacitor	8.2 pF	<a href="#">[1]</a>
C7	multilayer ceramic chip capacitor	6.8 pF	<a href="#">[2]</a>
C8	multilayer ceramic chip capacitor	2.7 pF	<a href="#">[2]</a>
C9	multilayer ceramic chip capacitor	2.2 pF	<a href="#">[2]</a>
C10, C13, C14	multilayer ceramic chip capacitor	100 pF	<a href="#">[3]</a>
C11, C12	multilayer ceramic chip capacitor	10 pF	<a href="#">[2]</a>
C15, C16	multilayer ceramic chip capacitor	4.7 $\mu$ F; 50 V	Kemet C1210X475K5RAC-TU or capacitor of same quality.
C17, C18, C23, C24	multilayer ceramic chip capacitor	100 pF	<a href="#">[2]</a>
C19, C20	multilayer ceramic chip capacitor	10 $\mu$ F; 50 V	TDK C570X7R1H106KT000N or capacitor of same quality.
C21, C22	electrolytic capacitor	470 $\mu$ F; 63 V	
C30	multilayer ceramic chip capacitor	10 pF	<a href="#">[4]</a>
C31	multilayer ceramic chip capacitor	9.1 pF	<a href="#">[4]</a>
C32	multilayer ceramic chip capacitor	3.9 pF	<a href="#">[4]</a>
C33, C34, C35	multilayer ceramic chip capacitor	100 pF	<a href="#">[4]</a>
C36, C37	multilayer ceramic chip capacitor	4.7 $\mu$ F; 50 V	TDK C4532X7R1E475MT020U or capacitor of same quality.
L1	microstrip	-	<a href="#">[5]</a> (W $\times$ L) 15 mm $\times$ 13 mm
L2	microstrip	-	<a href="#">[5]</a> (W $\times$ L) 5 mm $\times$ 26 mm
L3, L32	microstrip	-	<a href="#">[5]</a> (W $\times$ L) 2 mm $\times$ 49.5 mm
L4	microstrip	-	<a href="#">[5]</a> (W $\times$ L) 1.7 mm $\times$ 3.5 mm
L5	microstrip	-	<a href="#">[5]</a> (W $\times$ L) 2 mm $\times$ 9.5 mm
L30	microstrip	-	<a href="#">[5]</a> (W $\times$ L) 5 mm $\times$ 13 mm
L31	microstrip	-	<a href="#">[5]</a> (W $\times$ L) 2 mm $\times$ 11 mm
L33	microstrip	-	<a href="#">[5]</a> (W $\times$ L) 2 mm $\times$ 3 mm
R1, R2	wire resistor	10 $\Omega$	
R3, R4	SMD resistor	5.6 $\Omega$	0805
R5, R6	wire resistor	100 $\Omega$	
R7, R8	potentiometer	10 k $\Omega$	

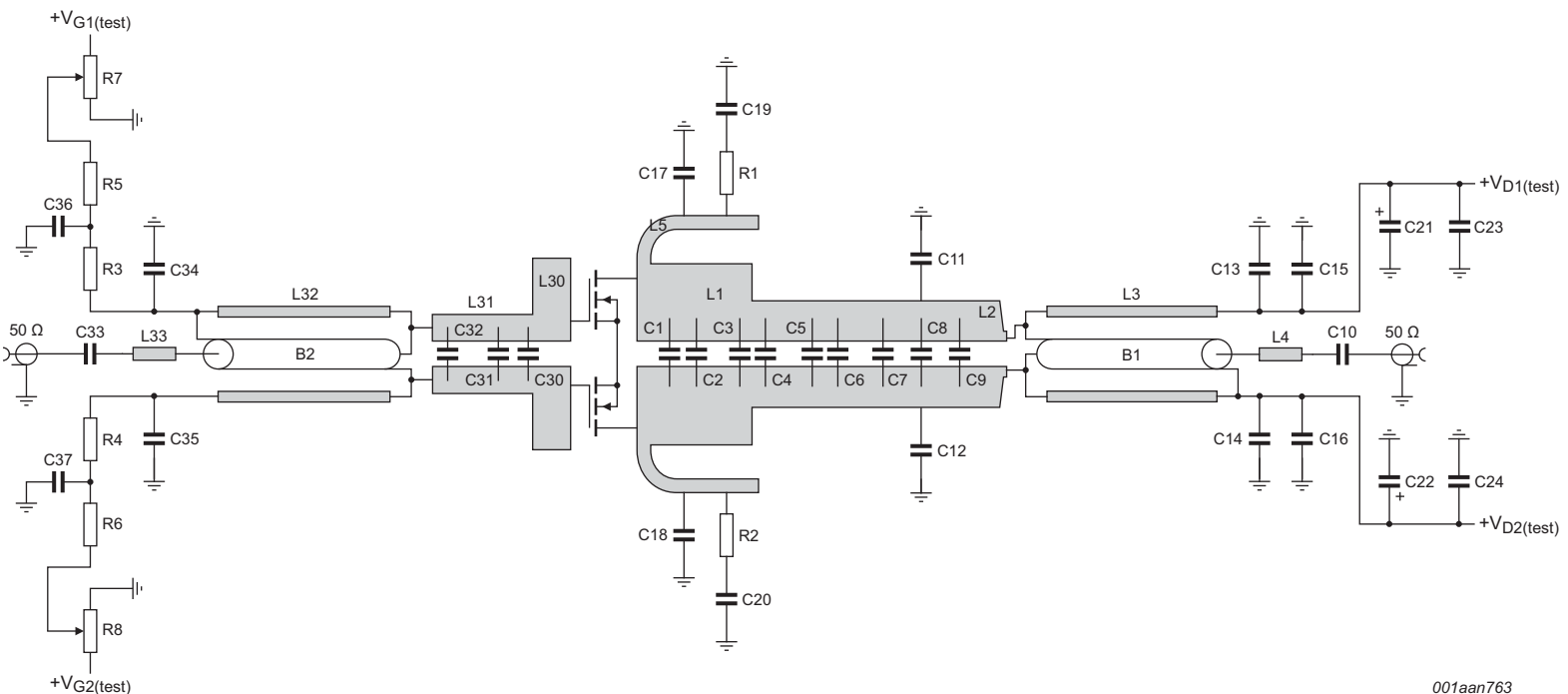
[1] American technical ceramics type 800R or capacitor of same quality.

[2] American technical ceramics type 800B or capacitor of same quality.

[3] American technical ceramics type 180R or capacitor of same quality.

[4] American technical ceramics type 100A or capacitor of same quality.

[5] Printed-Circuit Board (PCB): Taconic RF35;  $\epsilon_r = 3.5$  F/m; height = 0.762 mm; Cu (top/bottom metallization); thickness copper plating = 35  $\mu$ m.

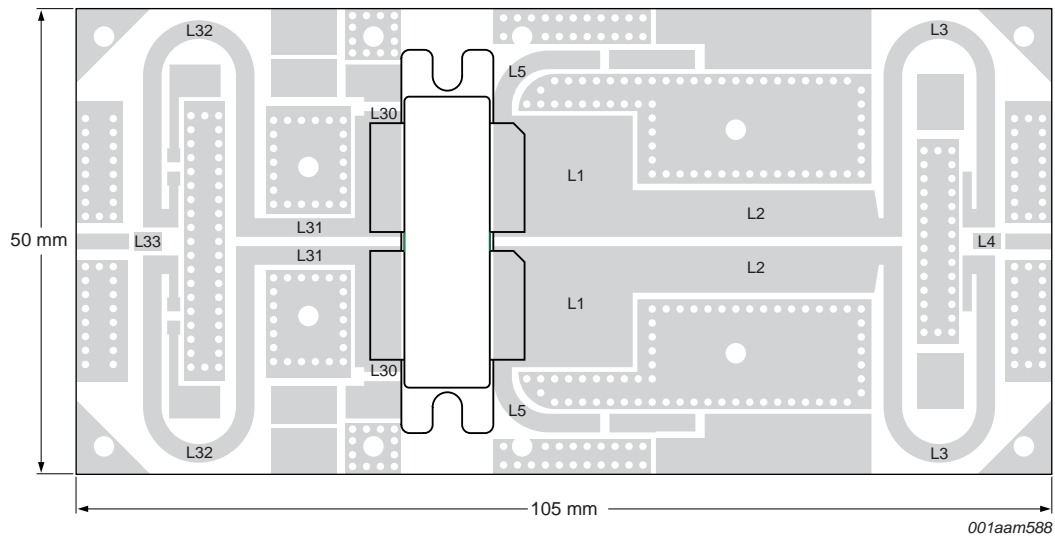


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See [Table 9](#) for a list of components.

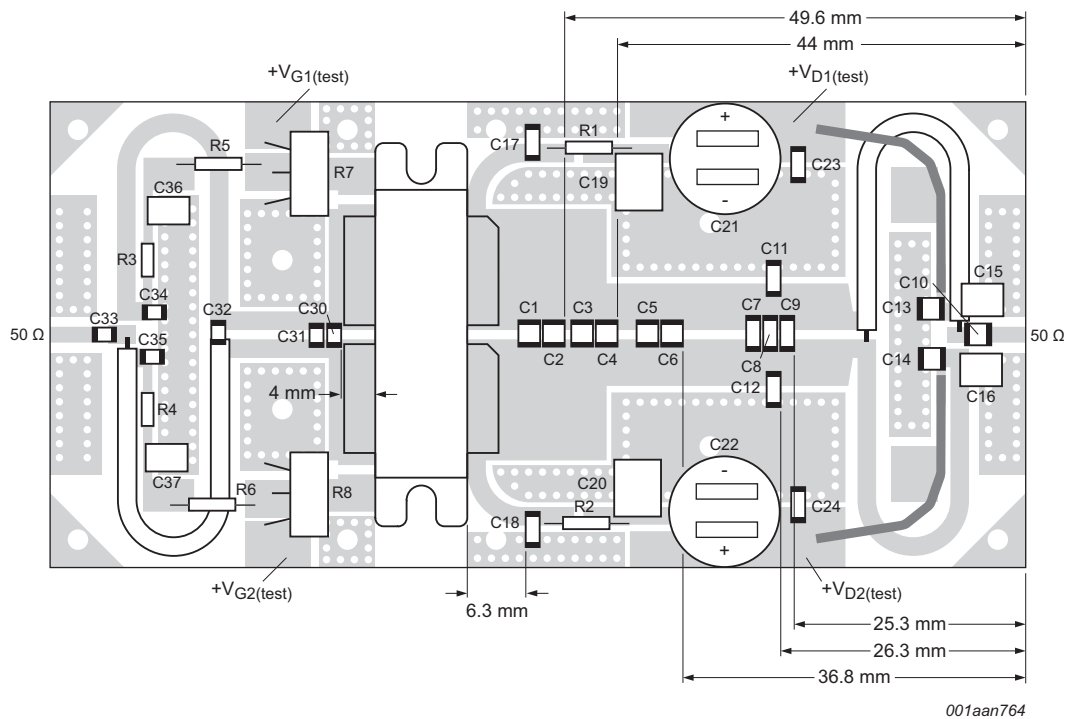
**Fig 5. Class-AB common source broadband amplifier;  $V_{D1(test)}$ ,  $V_{D2(test)}$ ,  $V_{G1(test)}$  and  $V_{G2(test)}$  are drain and gate test voltages**





See [Table 9](#) for a list of components.

**Fig 6. Printed-Circuit Board (PCB) for class-AB common source amplifier**



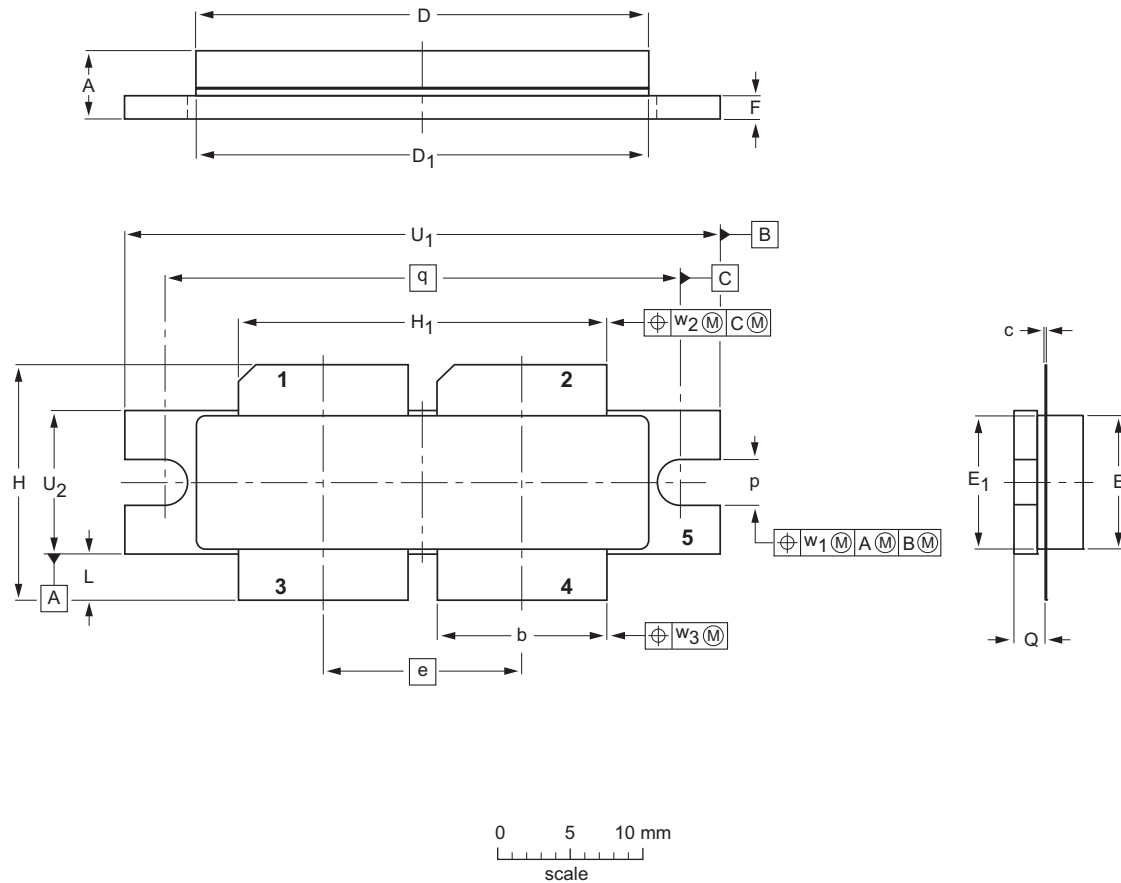
See [Table 9](#) for a list of components.

**Fig 7. Component layout for class-AB common source amplifier**

## 9. Package outline

Flanged balanced ceramic package; 2 mounting holes; 4 leads

SOT539A



**DIMENSIONS** (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D <sub>1</sub>	e	E	E <sub>1</sub>	F	H	H <sub>1</sub>	L	p	Q	q	U <sub>1</sub>	U <sub>2</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>
mm	4.7 4.2	11.81 11.56	0.18 0.10	31.55 30.94	31.52 30.96	13.72	9.50 9.30	9.53 9.27	1.75 1.50	17.12 16.10	25.53 25.27	3.48 2.97	3.30 3.05	2.26 2.01	35.56	41.28 41.02	10.29 10.03	0.25	0.51	0.25
inches	0.185 0.165	0.465 0.455	0.007 0.004	1.242 1.218	1.241 1.219	0.540	0.374 0.366	0.375 0.365	0.069 0.059	0.674 0.634	1.005 0.995	0.137 0.117	0.130 0.120	0.089 0.079	1.400	1.625 1.615	0.405 0.395	0.010	0.020	0.010

Note

1. millimeter dimensions are derived from the original inch dimensions.
2. recommended screw pitch dimension of 1.52 inch (38.6 mm) based on M3 screw.


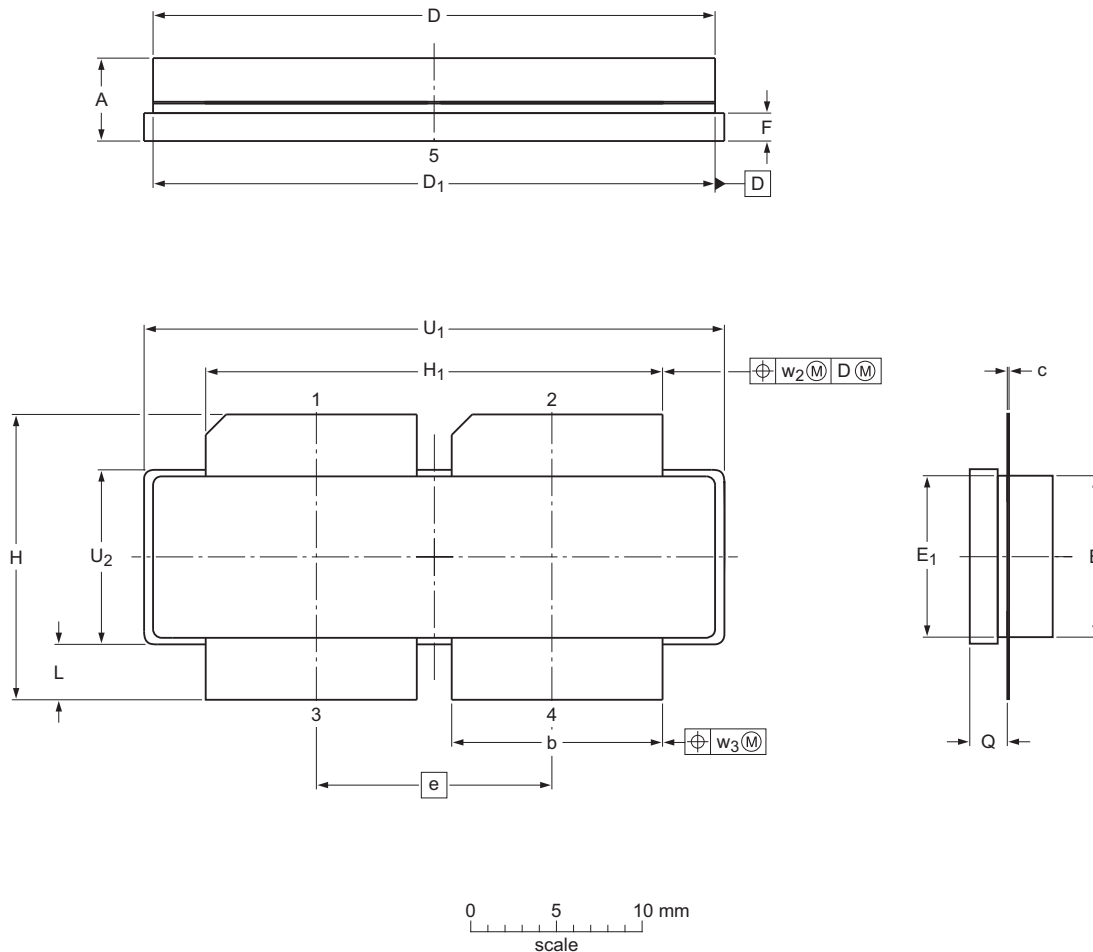
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT539A						<del>10-02-02</del> 12-05-02

Fig 8. Package outline SOT539A

Earless flanged balanced ceramic package; 4 leads

SOT539B



Dimensions

Unit <sup>(1)</sup>	A	b	c	D	D <sub>1</sub>	E	E <sub>1</sub>	e	F	H	H <sub>1</sub>	L	Q	U <sub>1</sub>	U <sub>2</sub>	w <sub>2</sub>	w <sub>3</sub>
mm	max	4.7	11.81	0.18	31.55	31.52	9.5	9.53	1.75	17.12	25.53	3.48	2.26	32.39	10.29		
	nom							13.72								0.25	0.25
	min	4.2	11.56	0.10	30.94	30.96	9.3	9.27	1.50	16.10	25.27	2.97	2.01	32.13	10.03		
inches	max	0.185	0.465	0.007	1.242	1.241	0.374	0.375	0.069	0.674	1.005	0.137	0.089	1.275	0.405		
	nom							0.54								0.01	0.01
	min	0.165	0.455	0.004	1.218	1.219	0.366	0.365	0.059	0.634	0.995	0.117	0.079	1.265	0.395		

Note

1. millimeter dimensions are derived from the original inch dimensions.

sot539b\_po


Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT539B						12-05-02 13-05-24

Fig 9. Package outline SOT539B

## 10. 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.

## 11. Abbreviations

Table 10. Abbreviations

Acronym	Description
LDMOS	Laterally Diffused Metal-Oxide Semiconductor
LDMOST	Laterally Diffused Metal-Oxide Semiconductor Transistor
RF	Radio Frequency
SMD	Surface Mounted Device
VSWR	Voltage Standing-Wave Ratio

## 12. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BLU6H0410L-600P_6H0410LS-600P#3	20150901	Product data sheet		BLU6H0410L-600P_6H0410LS-600P v.2
Modifications:	<ul style="list-style-type: none"> <li>The format of this document has been redesigned to comply with the new identity guidelines of Ampleon.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> </ul>			
BLU6H0410L-600P_6H0410LS-600P v.2	20130712	Product data sheet	-	BLU6H0410L-600P_6H0410LS-600P v.1
BLU6H0410L-600P_6H0410LS-600P v.1	20120426	Product data sheet	-	-

## 13. Legal information

### 13.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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. Contact information

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