

# BLS7G2730L-200P; BLS7G2730LS-200P

LDMOS S-band radar power transistor

Rev. 4 — 1 September 2015

AMPLEON

Product data sheet

## 1. Product profile

### 1.1 General description

200 W LDMOS power transistor for S-band radar applications in the frequency range from 2700 MHz to 3000 MHz.

**Table 1. Typical performance**  
Typical RF performance at  $T_{case} = 25\text{ °C}$ .

Test signal	f (GHz)	V <sub>DS</sub> (V)	P <sub>L</sub> (W)	G <sub>p</sub> (dB)	$\eta_D$ (%)	t <sub>r</sub> (ns)	t <sub>f</sub> (ns)
<b>Class-AB production test circuit</b>							
pulsed RF [1]	2.7 to 3.0	32	200	12	48	8	5
<b>Application circuit</b>							
pulsed RF [2]	2.7 to 3.0	32	220	12.5	50	20	6
pulsed RF [3]	2.9 to 3.1	32	220	12.5	50	20	6

[1]  $t_p = 300\text{ }\mu\text{s}$ ;  $\delta = 10\%$ ;  $I_{DQ} = 100\text{ mA}$

[2]  $t_p = 3000\text{ }\mu\text{s}$ ;  $\delta = 20\%$ ;  $I_{DQ} = 50\text{ mA}$

[3]  $t_p = 500\text{ }\mu\text{s}$ ;  $\delta = 20\%$ ;  $I_{DQ} = 50\text{ mA}$

### 1.2 Features and benefits

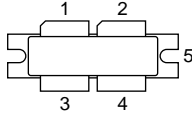
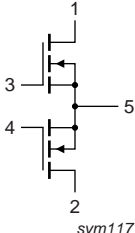
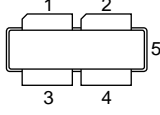
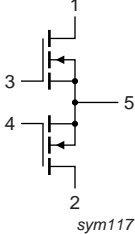
- High efficiency
- Excellent ruggedness
- Designed for broadband operation
- Excellent thermal stability
- Easy power control
- Integrated ESD protection
- High flexibility with respect to pulse formats
- Internally matched for ease of use
- Compliant to Directive 2002/95/EC, regarding Restriction of Hazardous Substances (RoHS)

### 1.3 Applications

- S-band radar applications in the frequency range 2700 MHz to 3000 MHz

## 2. Pinning information

Table 2. Pinning

Pin	Description	Simplified outline	Graphic symbol
<b>BLS7G2730L-200P (SOT539A)</b>			
1	drain1		
2	drain2		
3	gate1		
4	gate2		
5	source		
<b>BLS7G2730LS-200P (SOT539B)</b>			
1	drain1		
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
BLS7G2730L-200P	-	flanged balanced ceramic package; 2 mounting holes; 4 leads	SOT539A
BLS7G2730LS-200P	-	earless flanged balanced ceramic package; 4 leads	SOT539B

## 4. Limiting values

Table 4. Limiting values

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

Symbol	Parameter	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.

## 5. Thermal characteristics

Table 5. Thermal characteristics

Symbol	Parameter	Conditions	Typ	Unit
$Z_{th(j-c)}$	transient thermal impedance from junction to case	$T_{case} = 85\text{ °C}; P_L = 200\text{ W}$		
		$t_p = 300\text{ }\mu\text{s}; \delta = 10\%$	0.13	K/W
		$t_p = 3000\text{ }\mu\text{s}; \delta = 20\%$	0.19	K/W

## 6. Characteristics

Table 6. DC characteristics

$T_j = 25\text{ °C}$  unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{(BR)DSS}$	drain-source breakdown voltage	$V_{GS} = 0\text{ V}; I_D = 1.2\text{ mA}$	65	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	$V_{DS} = 10\text{ V}; I_D = 120\text{ }\mu\text{A}$	1.5	1.9	2.3	V
$I_{DSS}$	drain leakage current	$V_{GS} = 0\text{ V}; V_{DS} = 28\text{ V}$	-	-	2.8	$\mu\text{A}$
$I_{DSX}$	drain cut-off current	$V_{GS} = V_{GS(th)} + 3.75\text{ V}; V_{DS} = 10\text{ V}$	-	22.5	-	A
$I_{GSS}$	gate leakage current	$V_{GS} = 11\text{ V}; V_{DS} = 0\text{ V}$	-	-	280	nA
$g_{fs}$	forward transconductance	$V_{DS} = 10\text{ V}; I_D = 0.12\text{ A}$	-	1	-	S
$R_{DS(on)}$	drain-source on-state resistance	$V_{GS} = V_{GS(th)} + 3.75\text{ V}; I_D = 4.2\text{ A}$	-	0.13	-	$\Omega$

Table 7. RF characteristics

Test signal: pulsed RF;  $t_p = 300\text{ }\mu\text{s}; \delta = 10\%$ ; RF performance at  $V_{DS} = 32\text{ V}; I_{DQ} = 100\text{ mA}; T_{case} = 25\text{ °C}$ ; unless otherwise specified, in a class-AB production test circuit.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$G_p$	power gain	$P_L = 200\text{ W}$	9.8	12	-	dB
$RL_{in}$	input return loss	$P_L = 200\text{ W}$	-	-10	-6	dB
$\eta_D$	drain efficiency	$P_L = 200\text{ W}$	43	48	-	%
$P_{droop(pulse)}$	pulse droop power	$P_L = 200\text{ W}$	-	0	0.25	dB
$t_r$	rise time	$P_L = 200\text{ W}$	-	8	50	ns
$t_f$	fall time	$P_L = 200\text{ W}$	-	5	50	ns

## 7. Test information

### 7.1 Ruggedness in class-AB operation

The BLS7G2730L-200P and BLS7G2730LS-200P are capable of withstanding a load mismatch corresponding to  $V_{SWR} = 10 : 1$  through all phases under following conditions:  $V_{DS} = 32\text{ V}; I_{DQ} = 100\text{ mA}; P_L = 200\text{ W}; f = 2700\text{ MHz}; t_p = 300\text{ }\mu\text{s}; \delta = 10\%$

7.2 Impedance information

Table 8. Typical impedance  
Measured load-pull data half device;  $V_{DS} = 32\text{ V}$ ;  $I_{Dq} = 100\text{ mA}$ .

f (MHz)	$Z_S$ [1] ( $\Omega$ )	$Z_L$ [1] ( $\Omega$ )
2700	$2.0 - j5.8$	$3.7 - j6.4$
2800	$1.6 - j5.9$	$3.8 - j6.9$
2900	$2.6 - j6.2$	$3.8 - j6.9$
3000	$3.4 - j6.0$	$3.7 - j6.4$

[1]  $Z_S$  and  $Z_L$  defined in [Figure 1](#).

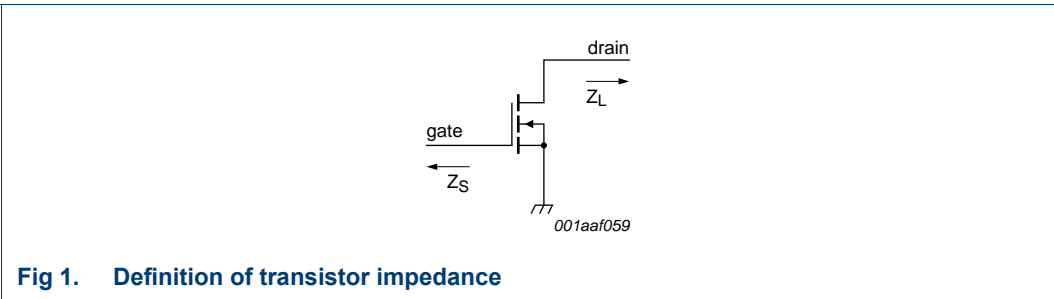


Fig 1. Definition of transistor impedance

7.3 Production test circuit

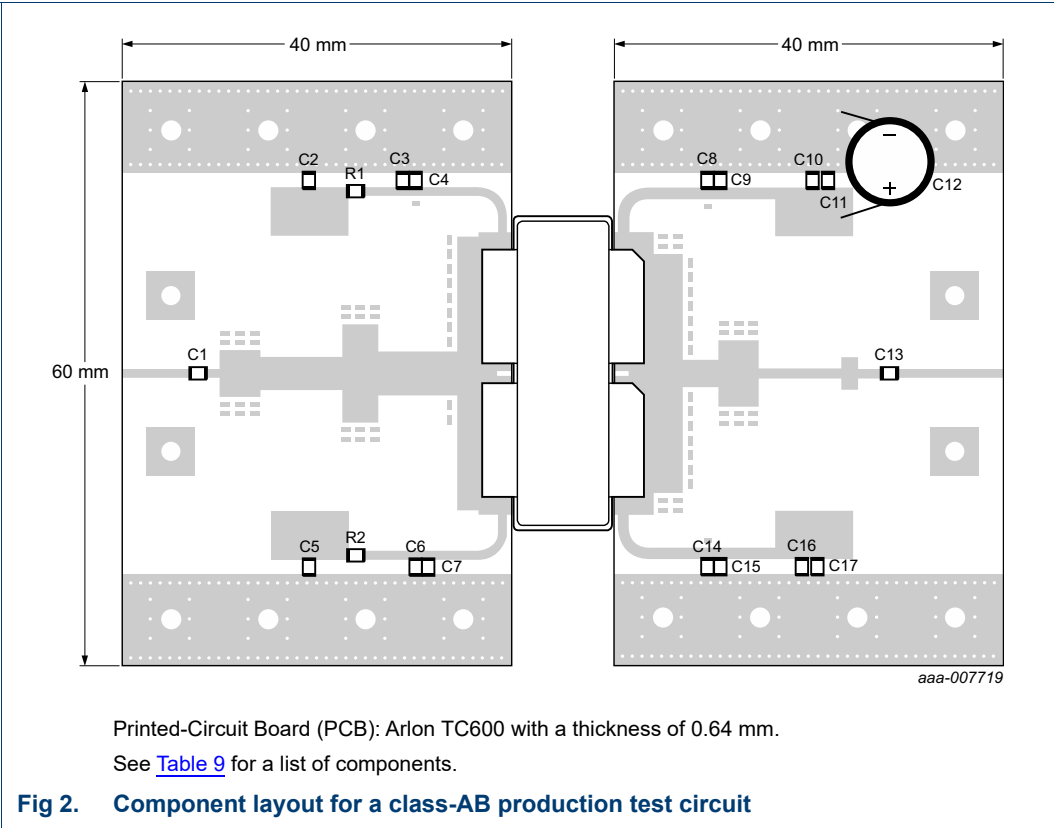


Fig 2. Component layout for a class-AB production test circuit

**Table 9. List of components test circuit**

See [Figure 2](#).

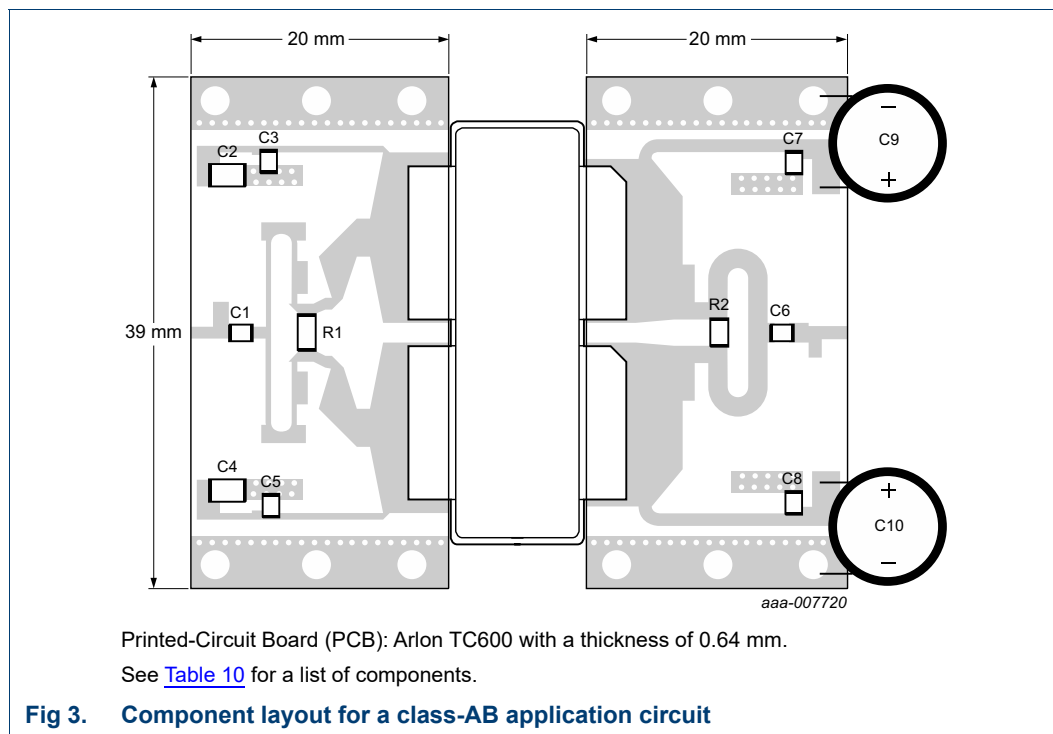
Component	Description	Value	Remarks
C1, C3, C6, C9, C13, C15	multilayer ceramic chip capacitor	18 pF	[1] ATC600F
C2, C5, C10, C16	multilayer ceramic chip capacitor	1 $\mu$ F	[2]
C4, C7, C8, C14	multilayer ceramic chip capacitor	12 pF	[1] ATC600F
C11, C17	multilayer ceramic chip capacitor	10 $\mu$ F	[2]
C12	electrolytic capacitor	2200 $\mu$ F, 63 V	
R1, R2	chip resistor	9.1 $\Omega$	[3]

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

[2] Murata or capacitor of same quality.

[3] Vishay Dale or capacitor of same quality.

## 7.4 Application circuit



**Table 10. List of components application circuit**

See [Figure 2](#).

Component	Description	Value	Remarks
C1, C3, C5, C6, C7, C8	multilayer ceramic chip capacitor	12 pF	[1] ATC600F
C2, C4	multilayer ceramic chip capacitor	1 $\mu$ F	[2]
C9, C10	electrolytic capacitor	2200 $\mu$ F, 50 V	
R1, R2	chip resistor	50 $\Omega$	[3]

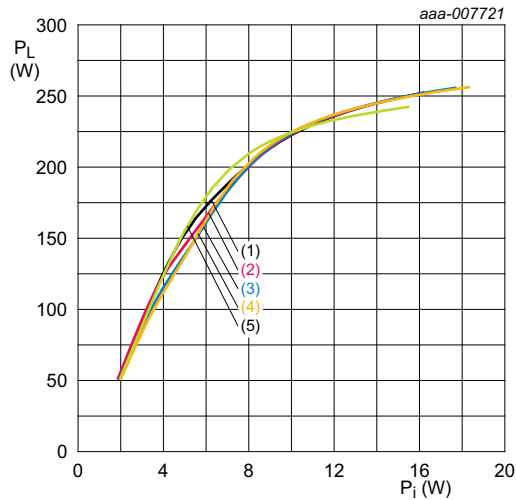
[1] American Technical Ceramics type 600F or capacitor of same quality.

[2] Murata or capacitor of same quality.

[3] Vishay Dale or capacitor of same quality.

## 7.5 Graphical data

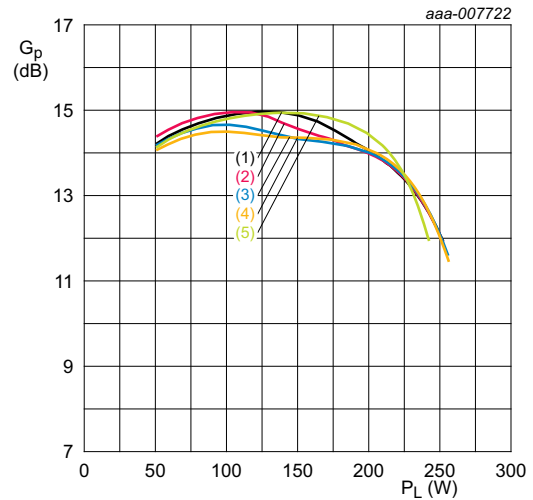
### 7.5.1 Test circuit



$V_{DS} = 32$  V;  $I_{Dq} = 100$  mA;  $t_p = 300$   $\mu$ s;  $\delta = 10$  %.

- (1)  $f = 2700$  MHz
- (2)  $f = 2800$  MHz
- (3)  $f = 2850$  MHz
- (4)  $f = 2900$  MHz
- (5)  $f = 3000$  MHz

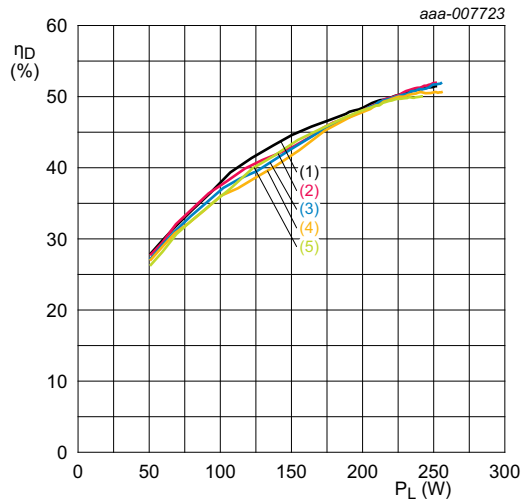
**Fig 4. Output power as a function of input power; typical values**



$V_{DS} = 32$  V;  $I_{Dq} = 100$  mA;  $t_p = 300$   $\mu$ s;  $\delta = 10$  %.

- (1)  $f = 2700$  MHz
- (2)  $f = 2800$  MHz
- (3)  $f = 2850$  MHz
- (4)  $f = 2900$  MHz
- (5)  $f = 3000$  MHz

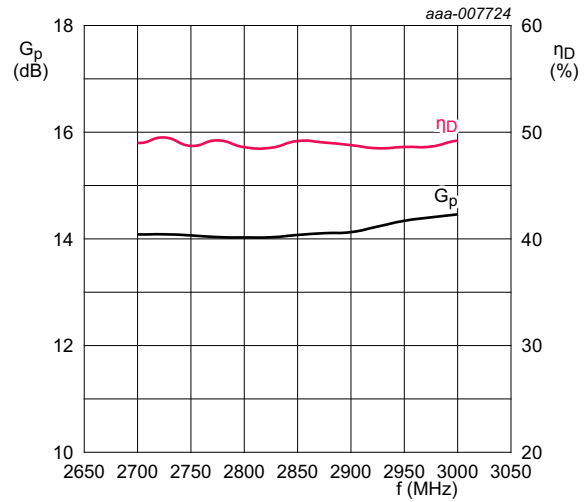
**Fig 5. Power gain as a function of output power; typical values**



$V_{DS} = 32 \text{ V}$ ;  $I_{Dq} = 100 \text{ mA}$ ;  $t_p = 300 \text{ } \mu\text{s}$ ;  $\delta = 10 \text{ } \%$ .

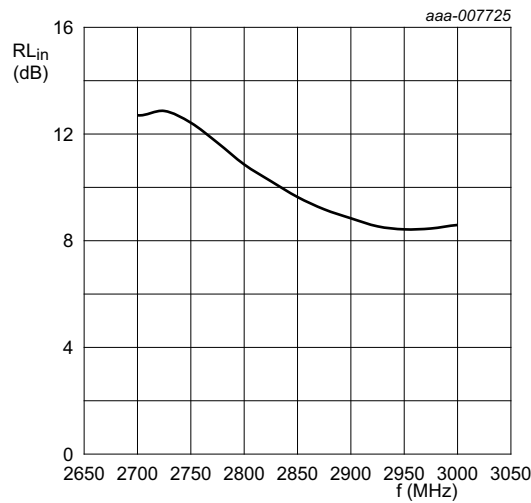
- (1)  $f = 2700 \text{ MHz}$
- (2)  $f = 2800 \text{ MHz}$
- (3)  $f = 2850 \text{ MHz}$
- (4)  $f = 2900 \text{ MHz}$
- (5)  $f = 3000 \text{ MHz}$

**Fig 6. Drain efficiency as a function of output power; typical values**



$V_{DS} = 32 \text{ V}$ ;  $P_L = 200 \text{ W}$ ;  $I_{Dq} = 100 \text{ mA}$ ;  $t_p = 300 \text{ } \mu\text{s}$ ;  $\delta = 10 \text{ } \%$ .

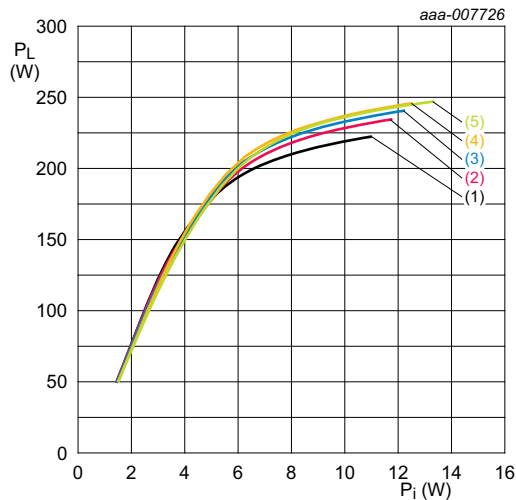
**Fig 7. Power gain and drain efficiency as function of frequency; typical values**



$V_{DS} = 32 \text{ V}$ ;  $P_L = 200 \text{ W}$ ;  $I_{Dq} = 100 \text{ mA}$ ;  $t_p = 300 \text{ } \mu\text{s}$ ;  $\delta = 10 \text{ } \%$ .

**Fig 8. Input return loss as a function of frequency; typical values**

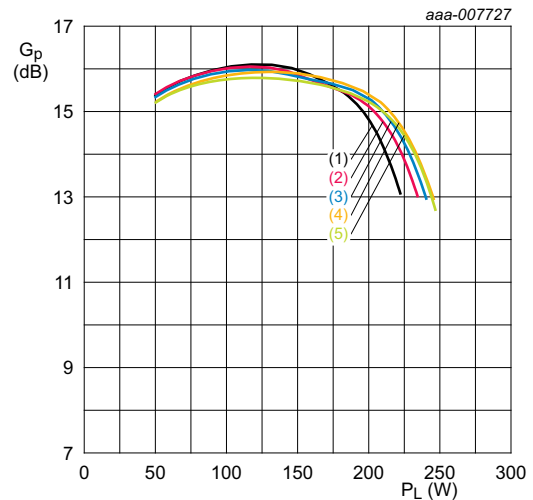
## 7.5.2 Application circuit



$V_{DS} = 32 \text{ V}$ ;  $I_{DQ} = 50 \text{ mA}$ ;  $t_p = 3000 \text{ } \mu\text{s}$ ;  $\delta = 20 \text{ } \%$ .

- (1)  $f = 2700 \text{ MHz}$
- (2)  $f = 2800 \text{ MHz}$
- (3)  $f = 2850 \text{ MHz}$
- (4)  $f = 2900 \text{ MHz}$
- (5)  $f = 3000 \text{ MHz}$

**Fig 9. Output power as a function of input power; typical values**

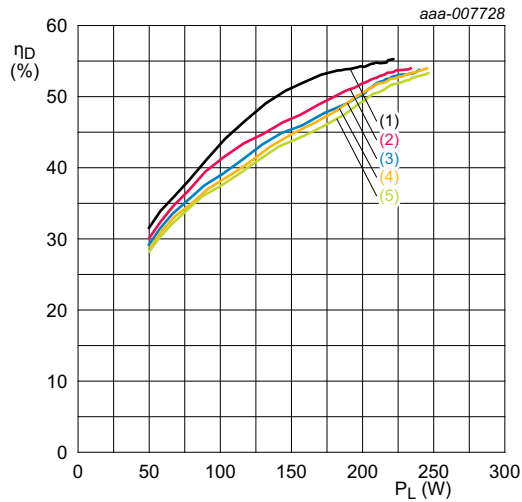


$V_{DS} = 32 \text{ V}$ ;  $I_{DQ} = 50 \text{ mA}$ ;  $t_p = 3000 \text{ } \mu\text{s}$ ;  $\delta = 20 \text{ } \%$ .

- (1)  $f = 2700 \text{ MHz}$
- (2)  $f = 2800 \text{ MHz}$
- (3)  $f = 2850 \text{ MHz}$
- (4)  $f = 2900 \text{ MHz}$
- (5)  $f = 3000 \text{ MHz}$

**Fig 10. Power gain as a function of output power; typical values**

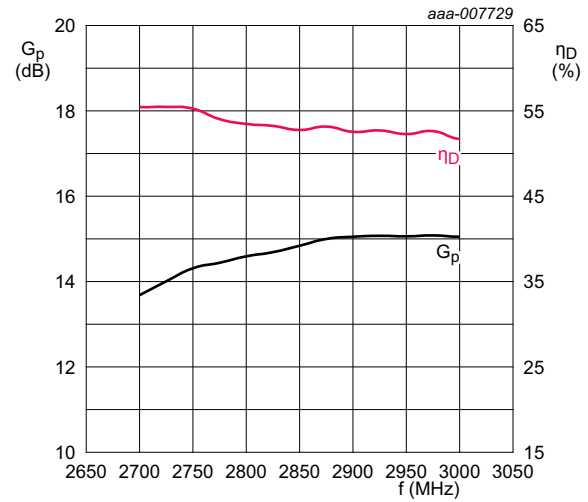




$V_{DS} = 32 \text{ V}$ ;  $I_{DQ} = 50 \text{ mA}$ ;  $t_p = 3000 \text{ } \mu\text{s}$ ;  $\delta = 20 \text{ } \%$ .

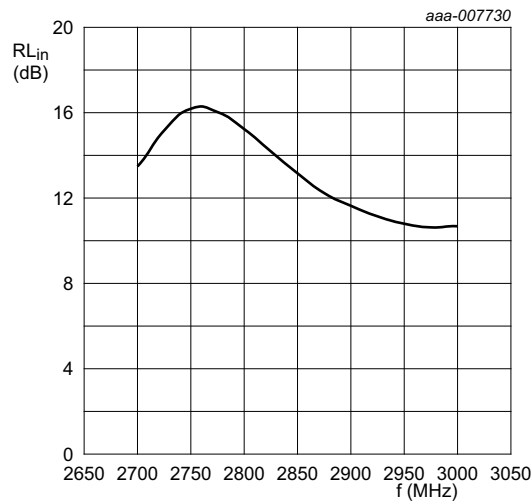
- (1)  $f = 2700 \text{ MHz}$
- (2)  $f = 2800 \text{ MHz}$
- (3)  $f = 2850 \text{ MHz}$
- (4)  $f = 2900 \text{ MHz}$
- (5)  $f = 3000 \text{ MHz}$

**Fig 11. Drain efficiency as a function of output power; typical values**



$V_{DS} = 32 \text{ V}$ ;  $P_L = 220 \text{ W}$ ;  $I_{DQ} = 50 \text{ mA}$ ;  $t_p = 3000 \text{ } \mu\text{s}$ ;  $\delta = 20 \text{ } \%$ .

**Fig 12. Power gain and drain efficiency as function of frequency; typical values**



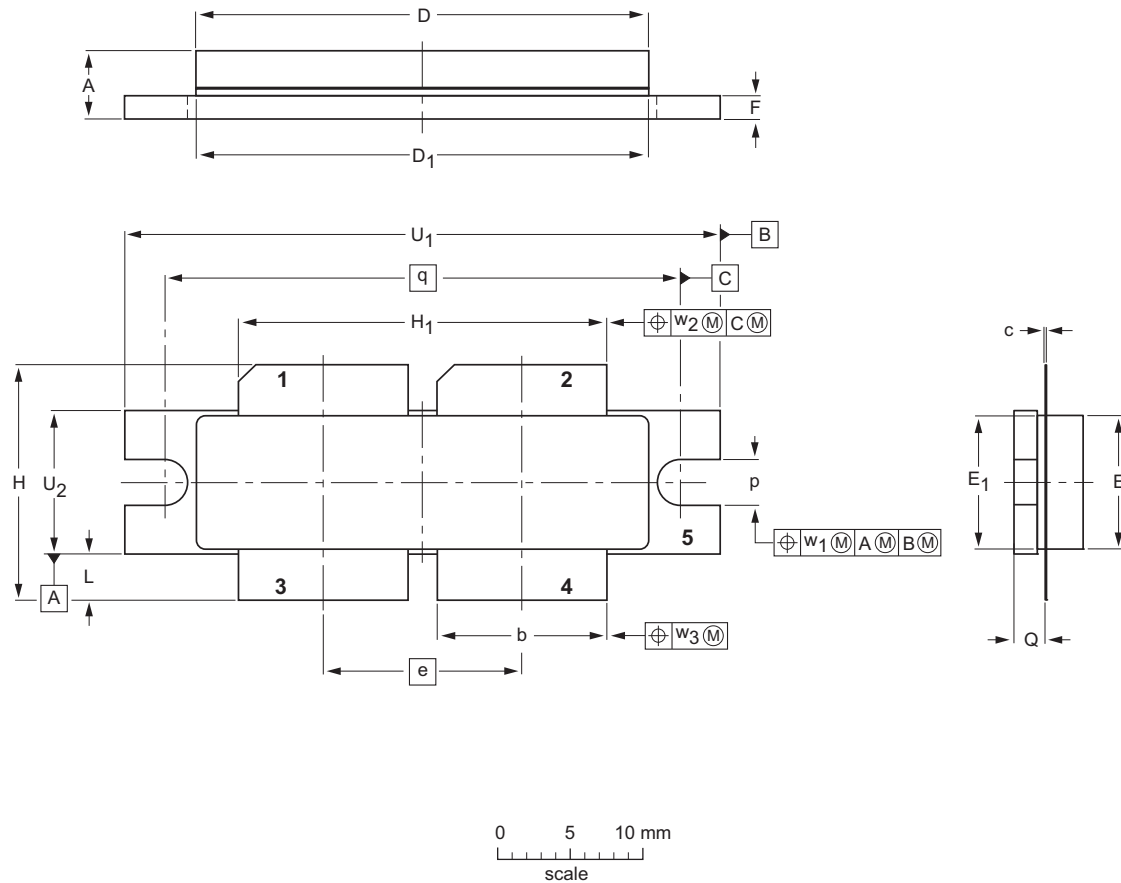
$V_{DS} = 32 \text{ V}$ ;  $P_L = 220 \text{ W}$ ;  $I_{DQ} = 50 \text{ mA}$ ;  $t_p = 3000 \text{ } \mu\text{s}$ ;  $\delta = 20 \text{ } \%$ .

**Fig 13. Input return loss as a function of frequency; typical values**

## 8. 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

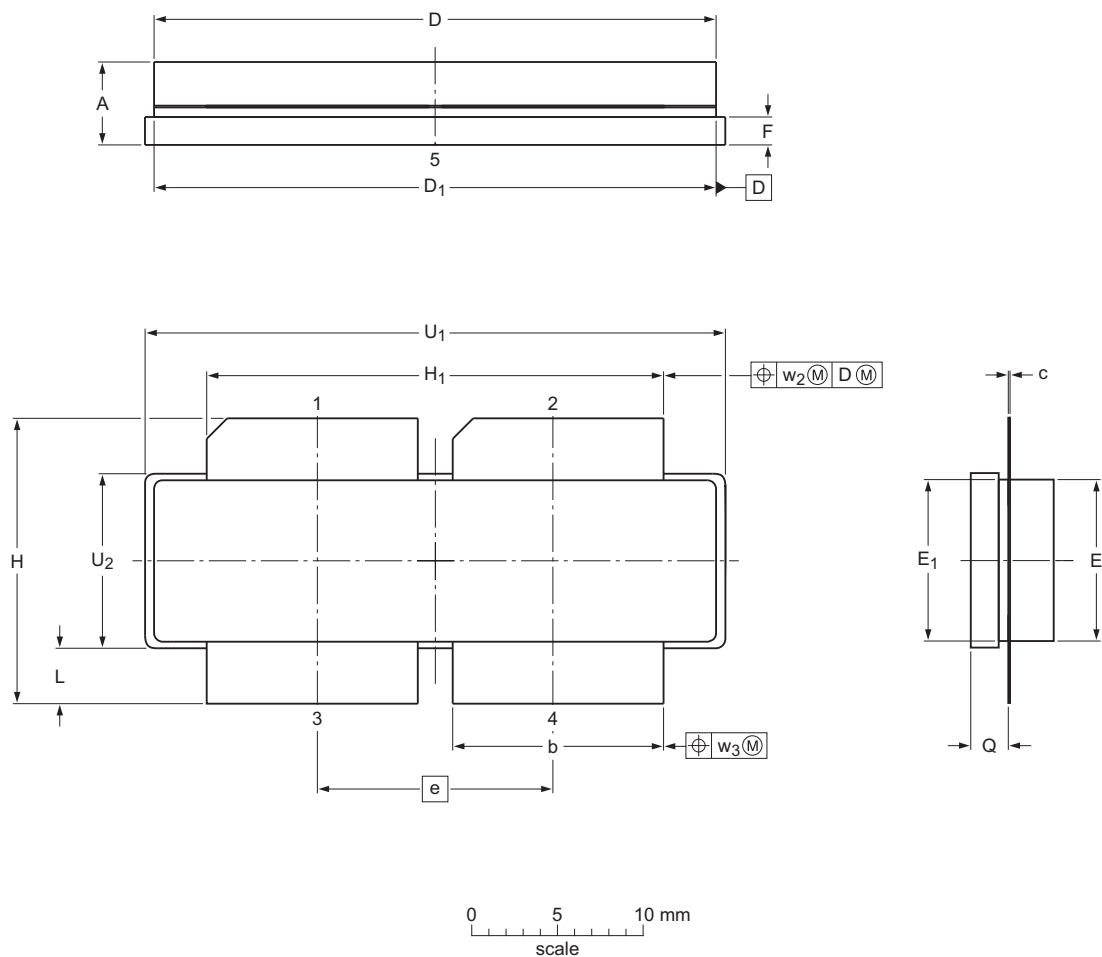
1. millimeter dimensions are derived from the original inch dimensions.
2. recommended screw pitch dimension of 1.52 inch (38.6 mm) based on M3 screw.

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

Fig 14. 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	0.25	0.25
	nom							13.72									
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	0.01	0.01
	nom							0.54									
	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 15. Package outline SOT539B

## 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 11. Abbreviations

Acronym	Description
ESD	ElectroStatic Discharge
LDMOS	Laterally Diffused Metal-Oxide Semiconductor
S-band	Short wave band
VSWR	Voltage Standing-Wave Ratio

## 11. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BLS7G2730S-200P_LS-200P#4	20150901	Product data sheet		BLS7G2730S-200P_LS-200P v.3
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>			
BLS7G2730S-200P_LS-200P v.3	20130712	Product data sheet	-	BLS7G2730S-200P_LS-200P v.2
BLS7G2730S-200P_LS-200P v.2	20130603	Product data sheet	-	BLS7G2730S-200P_LS-200P v.1
BLS7G2730S-200P_LS-200P v.1	20130129	Objective data sheet	-	-

## 12. Legal information

### 12.1 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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## 13. Contact information

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