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## 1. Product profile

### 1.1 General description

A 500 W LDMOS RF power transistor for broadcast transmitter applications and industrial applications. The transistor is optimized for digital applications and can deliver 110 W average DVB-T broadband over the full UHF band from 470 MHz to 860 MHz. The excellent ruggedness of this device makes it ideal for digital transmitter applications.

**Table 1. Application information**

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

Mode of operation	f (MHz)	$P_{L(PEP)}$ (W)	$P_{L(AV)}$ (W)	$G_p$ (dB)	$\eta_D$ (%)	IMD3 (dBc)	IMD <sub>shldr</sub> (dBc)
2-Tone, class AB	$f_1 = 860; f_2 = 860.1$	500	250	19	46	-32	-
DVB-T (8k OFDM)	858	-	110	19	31	-	-31 [1]

[1] Measured [dBc] with delta marker at 4.3 MHz from center frequency.

### CAUTION



This device is sensitive to ElectroStatic Discharge (ESD). Therefore care should be taken during transport and handling.

### 1.2 Features and benefits

- 2-Tone performance at 860 MHz, a drain-source voltage  $V_{DS}$  of 50 V and a quiescent drain current  $I_{Dq} = 1.3$  A:
  - ◆ Peak envelope power load power = 500 W
  - ◆ Power gain = 19 dB
  - ◆ Drain efficiency = 46 %
  - ◆ Third order intermodulation distortion = -32 dBc
- DVB performance at 858 MHz, a drain-source voltage  $V_{DS}$  of 50 V and a quiescent drain current  $I_{Dq} = 1.3$  A:
  - ◆ Average output power = 110 W
  - ◆ Power gain = 19 dB
  - ◆ Drain efficiency = 31 %
  - ◆ Shoulder distance = -31 dBc (4.3 MHz from center frequency)
- Integrated ESD protection
- Advanced flange material for optimum thermal behavior and reliability

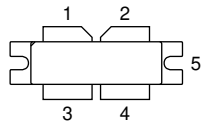
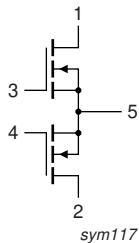
- Excellent ruggedness
- High power gain
- High efficiency
- Designed for broadband operation (470 MHz to 860 MHz)
- Excellent reliability
- Internal input matching for high gain and optimum broadband operation
- Easy power control
- Compliant to Directive 2002/95/EC, regarding Restriction of Hazardous Substances (RoHS)

### 1.3 Applications

- Communication transmitter applications in the UHF band
- Industrial applications in the UHF band

## 2. Pinning information

Table 2. Pinning

Pin	Description	Simplified outline	Graphic symbol
1	drain1		
2	drain2		
3	gate1		
4	gate2		
5	source <a href="#">[1]</a>		

[1] Connected to flange.

## 3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
BLF888	-	flanged LDMOST ceramic package; 2 mounting holes; 4 leads	SOT979A

## 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		-	104	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	$T_{case} = 80\text{ °C}; P_{L(AV)} = 110\text{ W}$	[1]	0.24 K/W

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

## 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	$V_{GS} = 0\text{ V}; I_D = 2.7\text{ mA}$	[1]	104	-	V
$V_{GS(th)}$	gate-source threshold voltage	$V_{DS} = 10\text{ V}; I_D = 270\text{ mA}$	[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	$V_{GS} = V_{GS(th)} + 3.75\text{ V}; V_{DS} = 10\text{ V}$	-	43	-	A
$I_{GSS}$	gate leakage current	$V_{GS} = 10\text{ V}; V_{DS} = 0\text{ V}$	-	-	280	nA
$g_{fs}$	forward transconductance	$V_{DS} = 10\text{ V}; I_D = 13.5\text{ A}$	[1]	-	17	S
$R_{DS(on)}$	drain-source on-state resistance	$V_{GS} = V_{GS(th)} + 3.75\text{ V}; I_D = 9.5\text{ A}$	[1]	-	105	$\text{m}\Omega$
$C_{iss}$	input capacitance	$V_{GS} = 0\text{ V}; V_{DS} = 50\text{ V}; f = 1\text{ MHz}$	[2]	-	205	pF
$C_{oss}$	output capacitance	$V_{GS} = 0\text{ V}; V_{DS} = 50\text{ V}; f = 1\text{ MHz}$	[2]	-	65	pF
$C_{rss}$	reverse transfer capacitance	$V_{GS} = 0\text{ V}; V_{DS} = 50\text{ V}; f = 1\text{ MHz}$	[2]	-	2.2	pF

[1]  $I_D$  is the drain current.

[2] Capacitance values without internal matching.

**Table 7. RF characteristics**

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

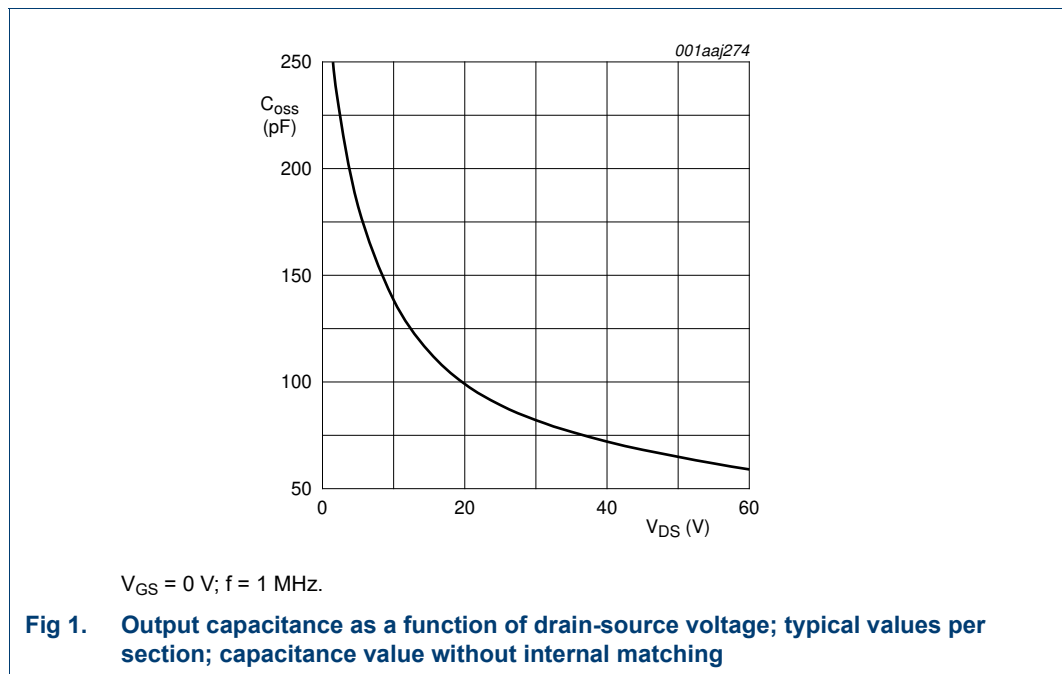
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>2-Tone, class AB</b>						
$V_{DS}$	drain-source voltage		-	50	-	V
$I_{Dq}$	quiescent drain current	total device	-	1.3	-	A
$P_{L(PEP)}$	peak envelope power load power		500	-	-	W
$P_{L(AV)}$	average output power		250	-	-	W
$G_p$	power gain		18	19	-	dB
$\eta_D$	drain efficiency		42	46	-	%
IMD3	third-order intermodulation distortion		-	-32	-28	dBc
<b>DVB-T (8k OFDM)</b>						
$V_{DS}$	drain-source voltage		-	50	-	V
$I_{Dq}$	quiescent drain current	total device	-	1.3	-	A
$P_{L(AV)}$	average output power		110	-	-	W
$G_p$	power gain		18	19	-	dB

**Table 7. RF characteristics ...continued**  
 $T_h = 25\text{ }^\circ\text{C}$  unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$\eta_D$	drain efficiency		28	31	-	%
$IMD_{shldr}$	intermodulation distortion shoulder		[1]	-31	-28	dBc
PAR	peak-to-average ratio		[2]	8.3	-	dB

[1] Measured [dBc] with delta marker at 4.3 MHz from center frequency.

[2] PAR (of output signal) at 0.01 % probability on CCDF; PAR of input signal = 9.5 dB at 0.01 % probability on CCDF.



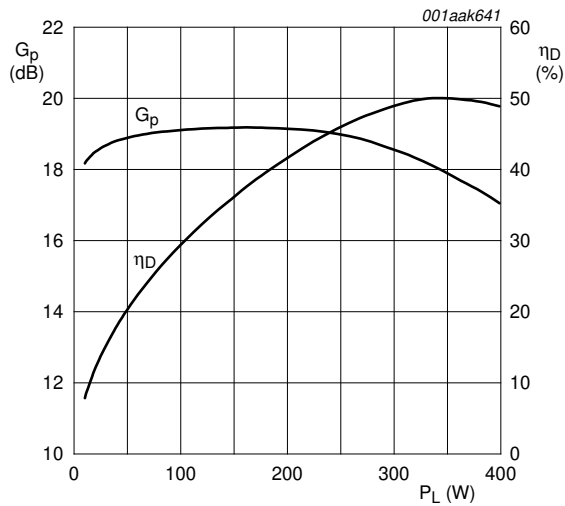
### 6.1 Ruggedness in class-AB operation

The BLF888 is capable of withstanding a load mismatch corresponding to  $V_{SWR} = 10 : 1$  through all phases under the following conditions:  $V_{DS} = 50\text{ V}; f = 860\text{ MHz}$  at rated power. Ruggedness is measured in the application circuit as described in [Section 8](#).

## 7. Application information

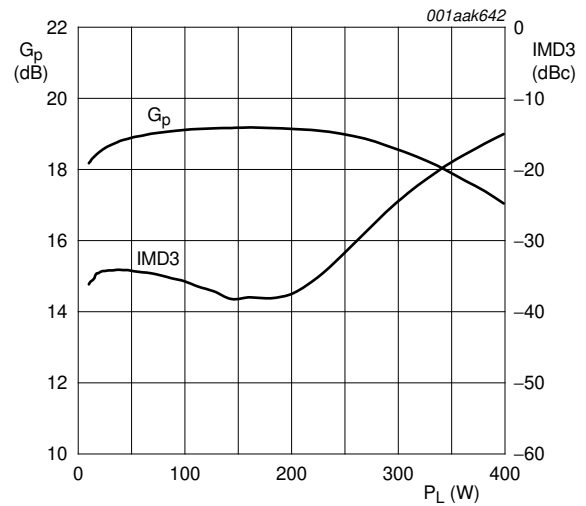
### 7.1 Narrowband RF figures

#### 7.1.1 2-Tone



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

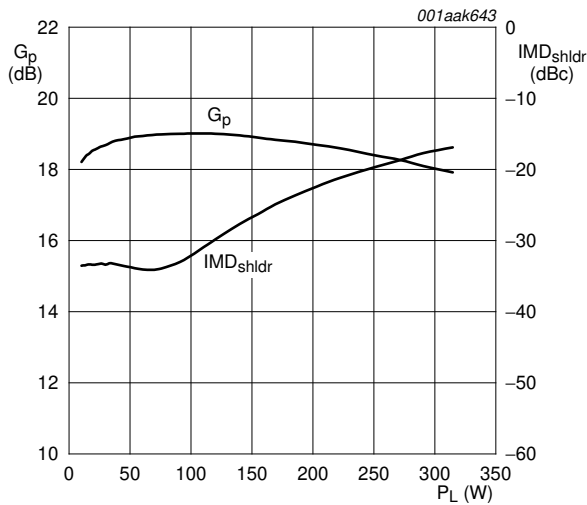
**Fig 2. 2-Tone power gain and drain efficiency as function of load power; typical values**



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

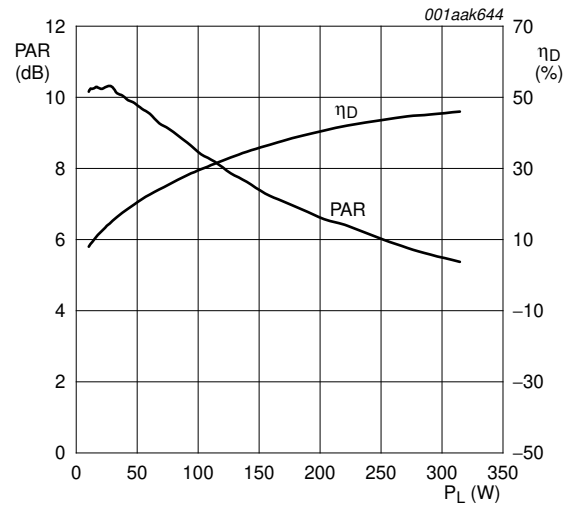
**Fig 3. 2-Tone power gain and third order intermodulation distortion as function of load power; typical values**

7.1.2 DVB-T



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

Fig 4. DVB-T power gain and intermodulation distortion shoulder as function of load power; typical values

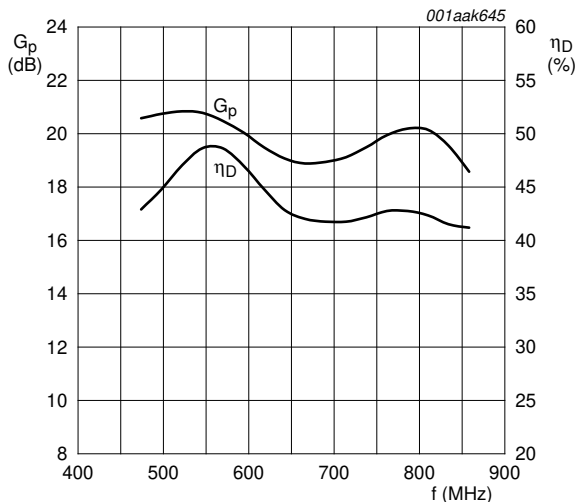


$V_{DS} = 50\text{ V}$ ;  $I_{Dq} = 1.3\text{ A}$ ; measured in a common source narrowband 860 MHz test circuit.

Fig 5. DVB-T peak-to-average ratio and drain efficiency as function of load power; typical values

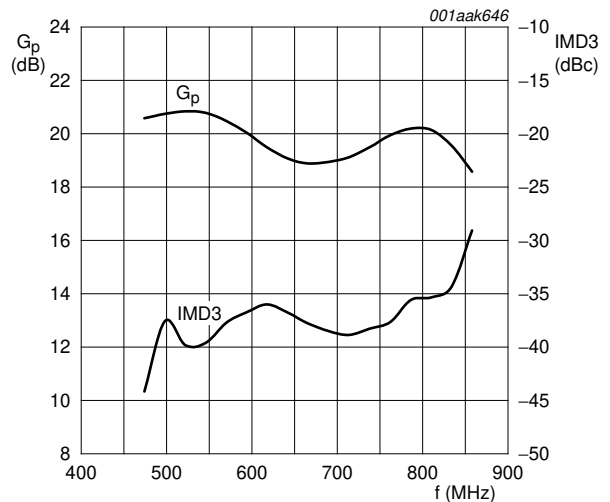
7.2 Broadband RF figures

7.2.1 2-Tone



$P_{L(AV)} = 250\text{ W}$ ;  $V_{DS} = 50\text{ V}$ ;  $I_{Dq} = 1.3\text{ A}$ ; measured in a common source broadband test circuit as described in Section 8.

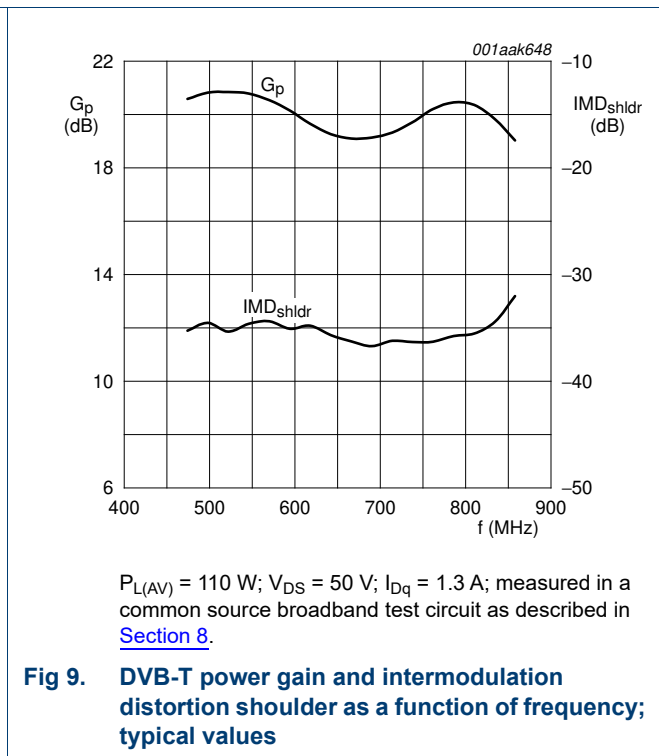
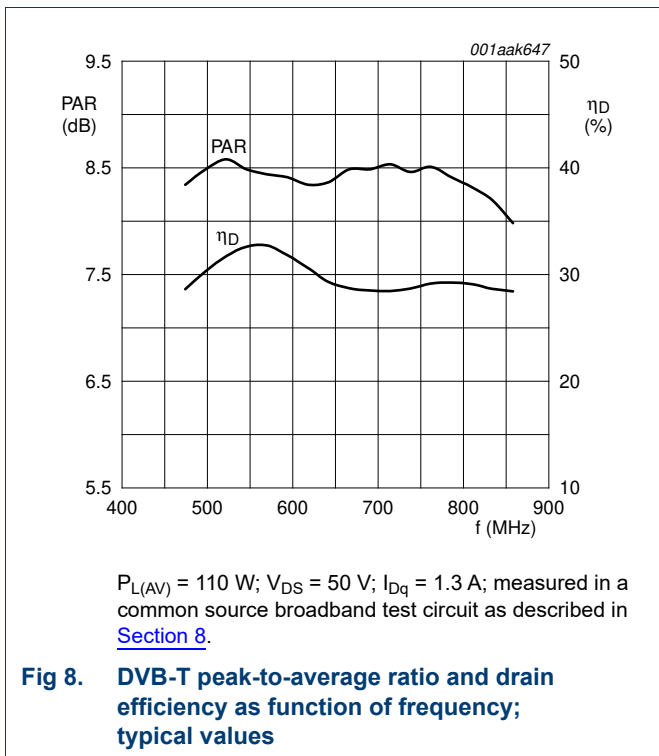
Fig 6. 2-Tone power gain and drain efficiency as function of frequency; typical values



$P_{L(AV)} = 250\text{ W}$ ;  $V_{DS} = 50\text{ V}$ ;  $I_{Dq} = 1.3\text{ A}$ ; measured in a common source broadband test circuit as described in Section 8.

Fig 7. 2-Tone power gain and third order intermodulation distortion as function of frequency; typical values

7.2.2 DVB-T



7.3 Impedance information

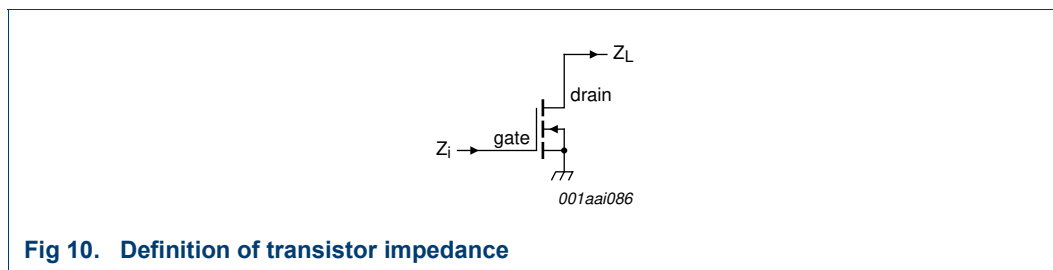


Table 8. Typical push-pull impedance

Simulated  $Z_i$  and  $Z_L$  device impedance; impedance info at  $V_{DS} = 50 \text{ V}$  and  $P_{L(PEP)} = 600 \text{ W}$  (DVB-T).

f MHz	$Z_i$ $\Omega$	$Z_L$ $\Omega$
300	1.018 - j1.350	5.565 + j0.747
325	1.045 - j1.022	5.435 + j0.752
350	1.076 - j0.722	5.303 + j0.746
375	1.110 - j0.444	5.167 + j0.730
400	1.148 - j0.183	5.030 + j0.704
425	1.190 + j0.064	4.892 + j0.668
450	1.238 + j0.299	4.754 + j0.622
475	1.291 + j0.526	4.617 + j0.567
500	1.351 + j0.746	4.481 + j0.504

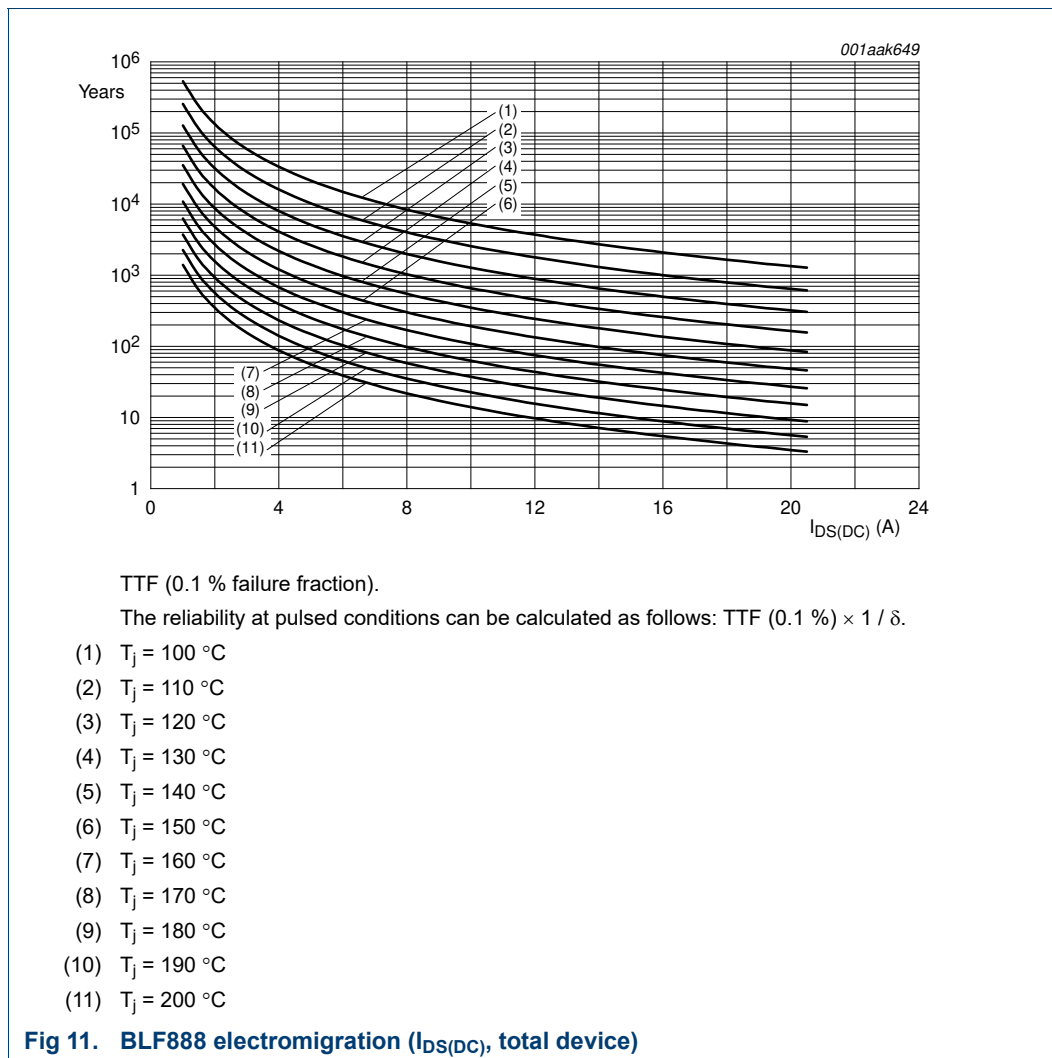


**Table 8. Typical push-pull impedance ...continued**

Simulated  $Z_i$  and  $Z_L$  device impedance; impedance info at  $V_{DS} = 50\text{ V}$  and  $P_{L(PEP)} = 600\text{ W (DVB-T)}$ .

<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>
525	1.417 + j0.961	4.346 + j0.432
550	1.492 + j1.171	4.214 + j0.353
575	1.577 + j1.378	4.084 + j0.266
600	1.672 + j1.582	3.958 + j0.173
625	1.779 + j1.783	3.834 + j0.074
650	1.901 + j1.983	3.713 - j0.031
675	2.039 + j2.180	3.596 - j0.142
700	2.196 + j2.373	3.482 - j0.257
725	2.376 + j2.563	3.372 - j0.377
750	2.581 + j2.745	3.266 - j0.501
775	2.817 + j2.918	3.163 - j0.628
800	3.087 + j3.076	3.064 - j0.759
825	3.395 + j3.212	2.968 - j0.893
850	3.746 + j3.317	2.876 - j1.030
875	4.142 + j3.377	2.787 - j1.170
900	4.583 + j3.374	2.701 - j1.312
925	5.063 + j3.288	2.619 - j1.455
950	5.566 + j3.094	2.540 - j1.601
975	6.064 + j2.770	2.464 - j1.749
1000	6.514 + j2.299	2.391 - j1.898

### 7.4 Reliability



## 8. Test information

**Table 9. List of components**

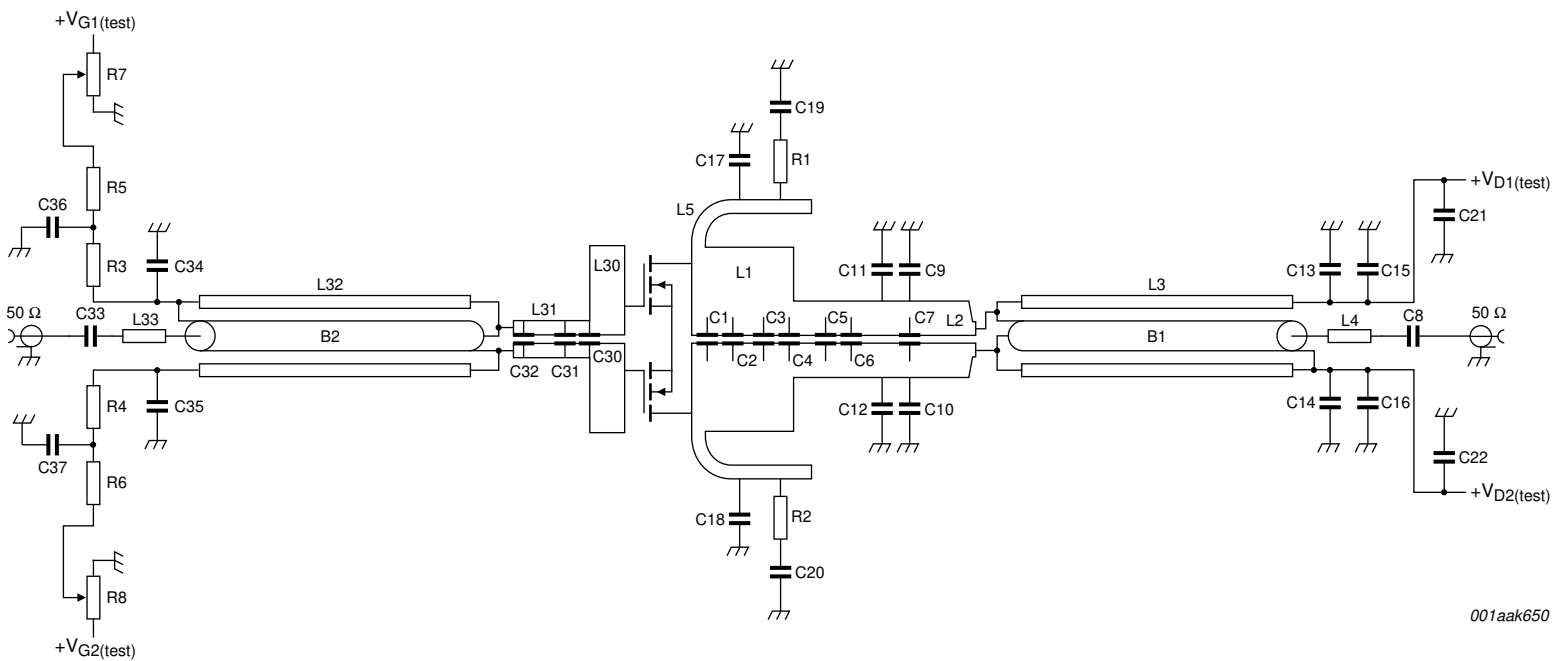
For test circuit, see [Figure 12](#), [Figure 13](#) and [Figure 14](#).

Component	Description	Value	Remarks
B1, B2	semi rigid coax	25 $\Omega$ ; 49.5 mm	EZ90-25-TP
C1	multilayer ceramic chip capacitor	12 pF	[1]
C2, C9, C10	multilayer ceramic chip capacitor	10 pF	[1]
C3	multilayer ceramic chip capacitor	4.7 pF	[2]
C4, C5, C6	multilayer ceramic chip capacitor	8.2 pF	[1]
C7	multilayer ceramic chip capacitor	5.6 pF	[2]
C8, C13, C14	multilayer ceramic chip capacitor	100 pF	[1]
C11, C12	multilayer ceramic chip capacitor	2.0 pF	[2]

**Table 9.** List of components ...continued  
For test circuit, see [Figure 12](#), [Figure 13](#) and [Figure 14](#).

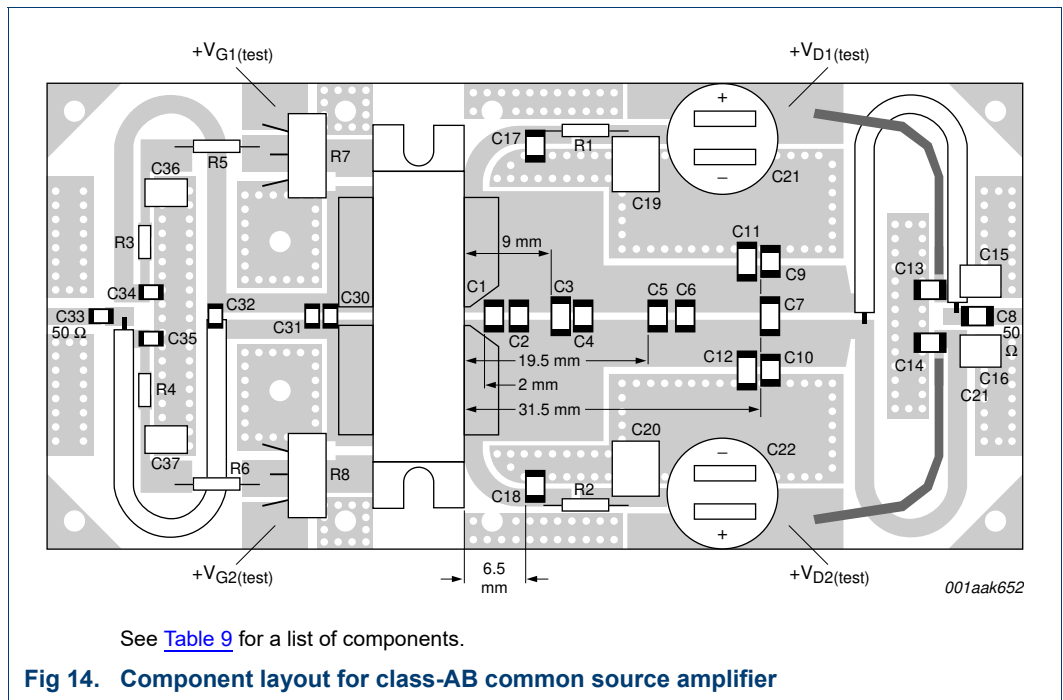
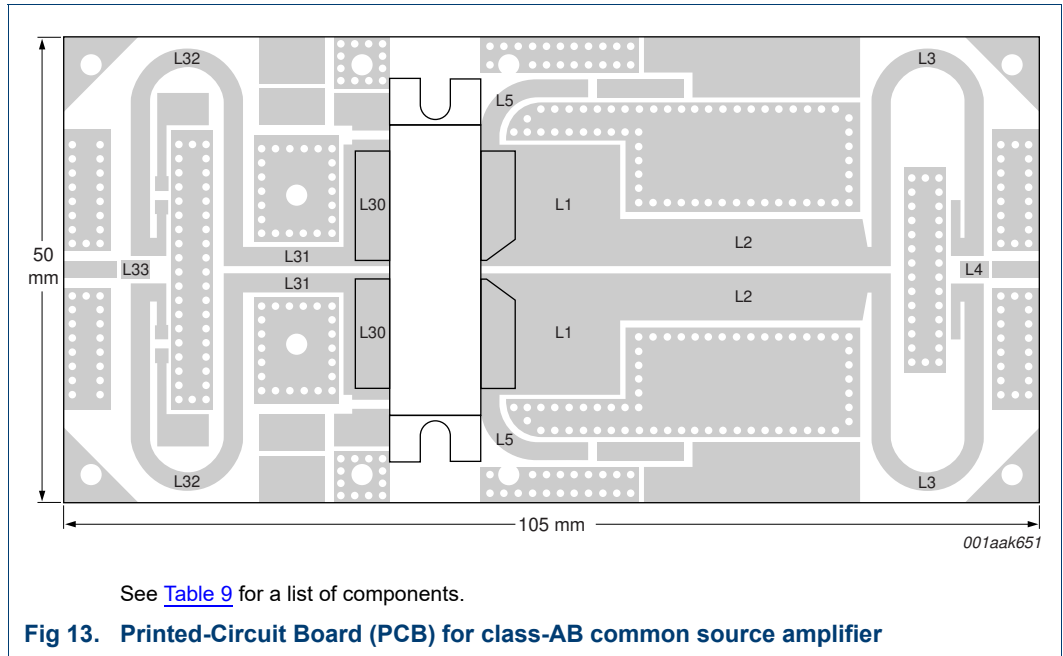
Component	Description	Value	Remarks
C15, C16	multilayer ceramic chip capacitor	4.7 $\mu$ F, 50 V	TDK C4532X7R1E475MT020U or capacitor of same quality.
C17, C18	multilayer ceramic chip capacitor	100 pF	[2]
C19, C20	multilayer ceramic chip capacitor	10 $\mu$ F, 50 V	TDK C570X7R1H106KT000N or capacitor of same quality.
C21, C22	electrolytic capacitor	470 $\mu$ F; 63 V	
C30, C31	multilayer ceramic chip capacitor	10 pF	[3]
C32	multilayer ceramic chip capacitor	5.6 pF	[3]
C33, C34, C35	multilayer ceramic chip capacitor	100 pF	[3]
C36, C37	multilayer ceramic chip capacitor	4.7 $\mu$ F	TDK C4532X7R1E475MT020U or capacitor of same quality.
L1	microstrip	-	[4] (W $\times$ L) 15 mm $\times$ 13 mm
L2	microstrip	-	[4] (W $\times$ L) 5 mm $\times$ 26 mm
L3, L32	microstrip	-	[4] (W $\times$ L) 2 mm $\times$ 49.5 mm
L4	microstrip	-	[4] (W $\times$ L) 1.7 mm $\times$ 3.5 mm
L5	microstrip	-	[4] (W $\times$ L) 2 mm $\times$ 9.5 mm
L30	microstrip	-	[4] (W $\times$ L) 5 mm $\times$ 13 mm
L31	microstrip	-	[4] (W $\times$ L) 2 mm $\times$ 11 mm
L33	microstrip	-	[4] (W $\times$ L) 2 mm $\times$ 3 mm
R1, R2	resistor	10 $\Omega$	
R3, R4	resistor	5.6 $\Omega$	
R5, R6	resistor	100 $\Omega$	
R7, R8	potentiometer	1 k $\Omega$	

- [1] American technical ceramics type 180R or capacitor of same quality.
- [2] American technical ceramics type 100B or capacitor of same quality.
- [3] American technical ceramics type 100A or capacitor of same quality.
- [4] Printed-Circuit Board (PCB): Taconic RF35;  $\epsilon_r = 3.5$  F/m; height = 0.76 mm; Cu (top/bottom metallization); thickness copper plating = 35  $\mu$ m.



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

**Fig 12. 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**



9. Package outline

Flanged LDMOST ceramic package; 2 mounting holes; 4 leads

SOT979A

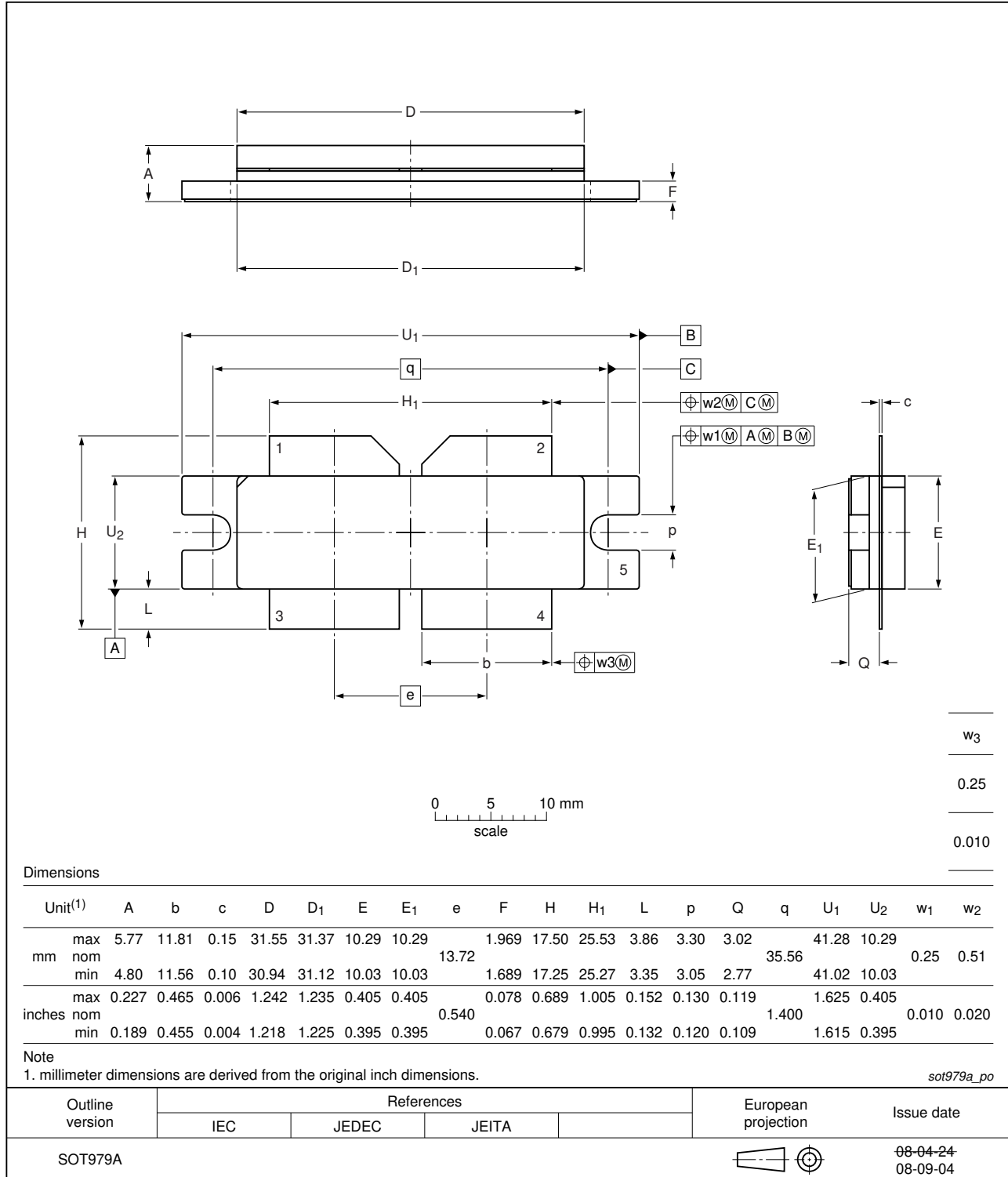


Fig 15. Package outline SOT979A

## 10. Abbreviations

Table 10. Abbreviations

Acronym	Description
CCDF	Complementary Cumulative Distribution Function
DVB	Digital Video Broadcast
DVB-T	Digital Video Broadcast - Terrestrial
LDMOS	Laterally Diffused Metal-Oxide Semiconductor
LDMOST	Laterally Diffused Metal-Oxide Semiconductor Transistor
OFDM	Orthogonal Frequency Division Multiplexing
PAR	Peak-to-Average power Ratio
RF	Radio Frequency
TTF	Time To Failure
UHF	Ultra High Frequency
VSWR	Voltage Standing-Wave Ratio

## 11. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BLF888#6	20150901	Product data sheet	-	BLF888 v.5
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>			
BLF888 v.5	20110121	Product data sheet	-	BLF888 v.4
BLF888 v.4	20100429	Product data sheet	-	BLF888 v.3
BLF888 v.3	20100211	Product data sheet	-	BLF888 v.2
BLF888 v.2	20091022	Preliminary data sheet	-	BLF888 v.1
BLF888 v.1	20081216	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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