

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

**Part Number:** BLF8G27LS-140V,118

**Manufacturer:** Ampleon USA Inc.

**Package:** Please confirm with sales

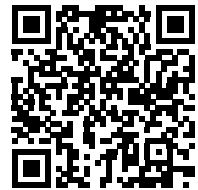
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<https://antrexco.com/product/details/ampleon-usa-inc/blf8g27ls-140v-118.html>

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**Note:**

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

# BLF8G27LS-140V

Power LDMOS transistor

Rev. 4 — 1 September 2015

AMPLEON

Product data sheet

## 1. Product profile

### 1.1 General description

140 W LDMOS power transistor with improved video bandwidth for base station applications at frequencies from 2600 MHz to 2700 MHz.

**Table 1. Typical performance**

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

| Test signal      | f            | I <sub>DQ</sub> | V <sub>DS</sub> | P <sub>L(AV)</sub> | G <sub>p</sub> | η <sub>D</sub> | ACPR                    |
|------------------|--------------|-----------------|-----------------|--------------------|----------------|----------------|-------------------------|
|                  | (MHz)        | (mA)            | (V)             | (W)                | (dB)           | (%)            | (dBc)                   |
| 2-carrier W-CDMA | 2600 to 2700 | 1300            | 32              | 45                 | 17.4           | 30             | −32 <a href="#">[1]</a> |
| 2-carrier W-CDMA | 2600 to 2700 | 1300            | 28              | 35                 | 17.0           | 29             | −33 <a href="#">[1]</a> |

[1] Test signal: 3GPP test model 1; 64 DPCH; PAR = 8.4 dB at 0.01 % probability on CCDF; carrier spacing 5 MHz.

### 1.2 Features and benefits

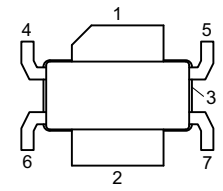
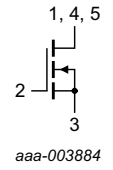
- Excellent ruggedness
- High efficiency
- Low thermal resistance providing excellent thermal stability
- Decoupling leads to enable improved video bandwidth (100 MHz typical)
- Lower output capacitance for improved performance in Doherty applications
- Designed for low memory effects providing excellent 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 2600 MHz to 2700 MHz frequency range

## 2. Pinning information

Table 2. Pinning

| Pin | Description           | Simplified outline                                                                 | Graphic symbol                                                                                    |
|-----|-----------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1   | drain                 |  | <br>aaa-003884 |
| 2   | gate                  |                                                                                    |                                                                                                   |
| 3   | source <sup>[1]</sup> |                                                                                    |                                                                                                   |
| 4,5 | video decoupling      |                                                                                    |                                                                                                   |
| 6   | n.c.                  |                                                                                    |                                                                                                   |
| 7   | n.c.                  |                                                                                    |                                                                                                   |

[1] Connected to flange.

## 3. Ordering information

Table 3. Ordering information

| Type number    | Package |                                                 |          |
|----------------|---------|-------------------------------------------------|----------|
|                | Name    | Description                                     | Version  |
| BLF8G27LS-140V | -       | earless flanged LDMOST ceramic package; 6 leads | SOT1120B |

## 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            |            | -    | 200  | °C   |
| $T_{case}$ | case temperature <sup>[1]</sup> |            | -    | 150  | °C   |

[1] Continuous use at maximum temperature will affect MTTF.

## 5. Recommended operating conditions

Table 5. Operating conditions

| Symbol     | Parameter        | Conditions | Min | Typ | Max  | Unit |
|------------|------------------|------------|-----|-----|------|------|
| $T_{case}$ | case temperature |            | -40 | -   | +125 | °C   |

## 6. Thermal characteristics

Table 6. Thermal characteristics

| Symbol        | Parameter                                | Conditions                                      | Typ  | Unit |
|---------------|------------------------------------------|-------------------------------------------------|------|------|
| $R_{th(j-c)}$ | thermal resistance from junction to case | $T_{case} = 80\text{ °C}$ ; $P_L = 55\text{ W}$ | 0.27 | K/W  |

## 7. Characteristics

**Table 7. DC characteristics**

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

| Symbol        | Parameter                        | Conditions                                                        | Min | Typ  | Max | Unit          |
|---------------|----------------------------------|-------------------------------------------------------------------|-----|------|-----|---------------|
| $V_{(BR)DSS}$ | drain-source breakdown voltage   | $V_{GS} = 0\text{ V}$ ; $I_D = 2.16\text{ mA}$                    | 65  | -    | -   | V             |
| $V_{GS(th)}$  | gate-source threshold voltage    | $V_{DS} = 10\text{ V}$ ; $I_D = 216\text{ mA}$                    | 1.5 | 1.9  | 2.3 | V             |
| $I_{DSS}$     | drain leakage current            | $V_{GS} = 0\text{ V}$ ; $V_{DS} = 28\text{ V}$                    | -   | -    | 4.2 | $\mu\text{A}$ |
| $I_{DSX}$     | drain cut-off current            | $V_{GS} = V_{GS(th)} + 3.75\text{ V}$ ;<br>$V_{DS} = 10\text{ V}$ | -   | 40   | -   | A             |
| $I_{GSS}$     | gate leakage current             | $V_{GS} = 11\text{ V}$ ; $V_{DS} = 0\text{ V}$                    | -   | -    | 420 | nA            |
| $g_{fs}$      | forward transconductance         | $V_{DS} = 10\text{ V}$ ; $I_D = 10.8\text{ A}$                    | -   | 16   | -   | S             |
| $R_{DS(on)}$  | drain-source on-state resistance | $V_{GS} = V_{GS(th)} + 3.75\text{ V}$ ;<br>$I_D = 7.56\text{ A}$  | -   | 0.06 | -   | $\Omega$      |

**Table 8. RF characteristics**

Test signal: 2-carrier W-CDMA; PAR 8.4 dB at 0.01 % probability on CCDF; 3GPP test model 1; 64 DPCH;  $f_1 = 2627.5\text{ MHz}$ ;  $f_2 = 2687.5\text{ MHz}$ ; RF performance at  $V_{DS} = 32\text{ V}$ ;  $I_{DQ} = 1300\text{ mA}$ ;  $T_{case} = 25\text{ }^{\circ}\text{C}$ ; unless otherwise specified; in a class-AB production test circuit.

| Symbol      | Parameter                            | Conditions                | Min  | Typ  | Max  | Unit |
|-------------|--------------------------------------|---------------------------|------|------|------|------|
| $G_p$       | power gain                           | $P_{L(AV)} = 45\text{ W}$ | 15.8 | 17.4 | 18.7 | dB   |
| $RL_{in}$   | input return loss                    | $P_{L(AV)} = 45\text{ W}$ | -    | -18  | -8   | dB   |
| $\eta_D$    | drain efficiency                     | $P_{L(AV)} = 45\text{ W}$ | 27   | 30   | -    | %    |
| $ACPR_{5M}$ | adjacent channel power ratio (5 MHz) | $P_{L(AV)} = 45\text{ W}$ | -    | -32  | -29  | dBc  |

## 8. Test information

### 8.1 Ruggedness in class-AB operation

The BLF8G27LS-140V is capable to withstand a load mismatch corresponding to  $VSWR = 10 : 1$  through all phases under the following conditions:  $V_{DS} = 32\text{ V}$ ;  $I_{DQ} = 1300\text{ mA}$ ;  $P_L = 180\text{ W}$  (CW);  $f = 2620\text{ MHz}$ .

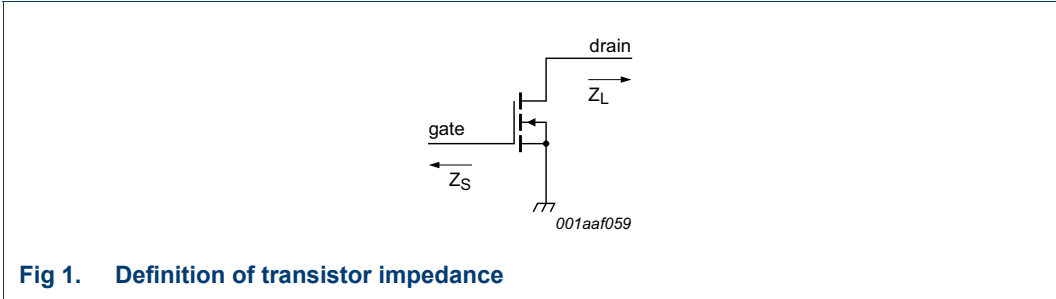
### 8.2 Impedance information

**Table 9. Typical impedance**

$I_{DQ} = 1300\text{ mA}$ ; main transistor  $V_{DS} = 32\text{ V}$ .

| $f$   | $Z_S$ <sup>[1]</sup> | $Z_L$ <sup>[1]</sup> |
|-------|----------------------|----------------------|
| (MHz) | ( $\Omega$ )         | ( $\Omega$ )         |
| 2600  | $2.0 - j4.8$         | $1.4 - j3.1$         |
| 2700  | $3.5 - j4.8$         | $1.4 - j3.1$         |

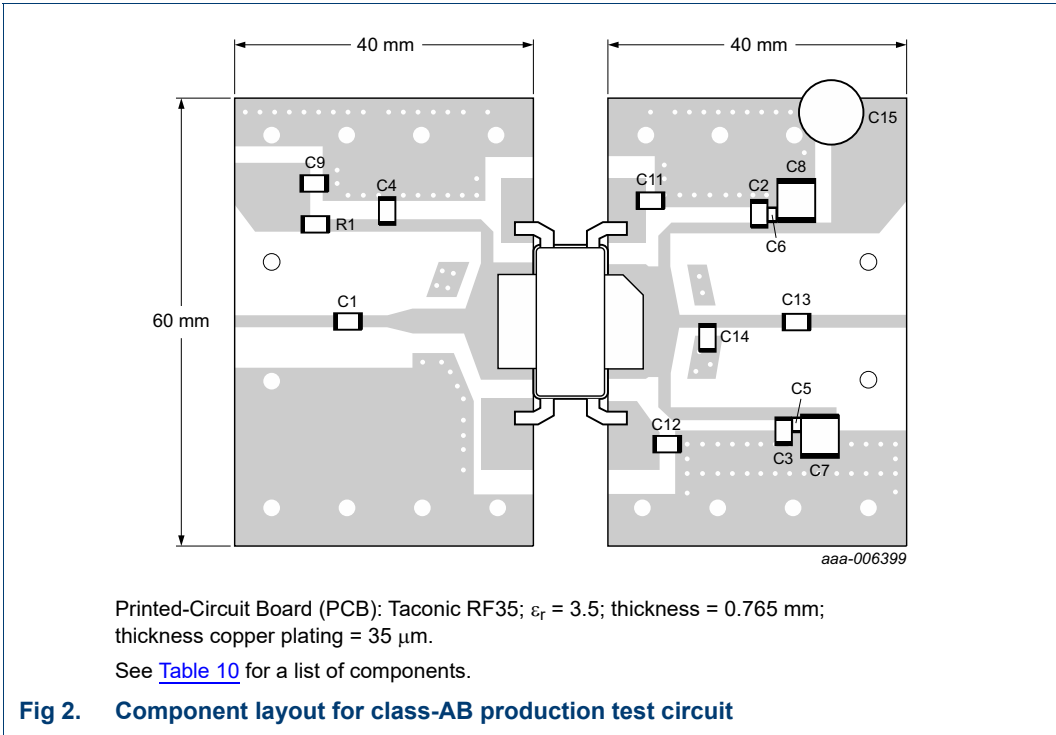
[1]  $Z_S$  and  $Z_L$  defined in [Figure 1](#).



### 8.3 VBW in class-AB operation

The BLF8G27LS-140V shows 100 MHz (typical) video bandwidth in class-AB test circuit in 2.6 GHz to 2.7 GHz band at  $V_{DS} = 32\text{ V}$  and  $I_{Dq} = 1.3\text{ A}$ .

### 8.4 Test circuit



**Table 10. List of components**  
For test circuit see [Figure 2](#).

| Component           | Description                       | Value                                        | Remarks |
|---------------------|-----------------------------------|----------------------------------------------|---------|
| C1, C2, C3, C4, C13 | multilayer ceramic chip capacitor | 10 pF <a href="#">[1]</a>                    | ATC100B |
| C14                 | multilayer ceramic chip capacitor | 0.5 pF <a href="#">[1]</a>                   | ATC100B |
| C5, C6              | multilayer ceramic chip capacitor | 1 $\mu\text{F}$ , 50 V <a href="#">[2]</a>   | Murata  |
| C7, C8              | multilayer ceramic chip capacitor | 10 $\mu\text{F}$ , 50 V <a href="#">[2]</a>  | Murata  |
| C9                  | multilayer ceramic chip capacitor | 4.7 $\mu\text{F}$ , 50 V <a href="#">[2]</a> | Murata  |

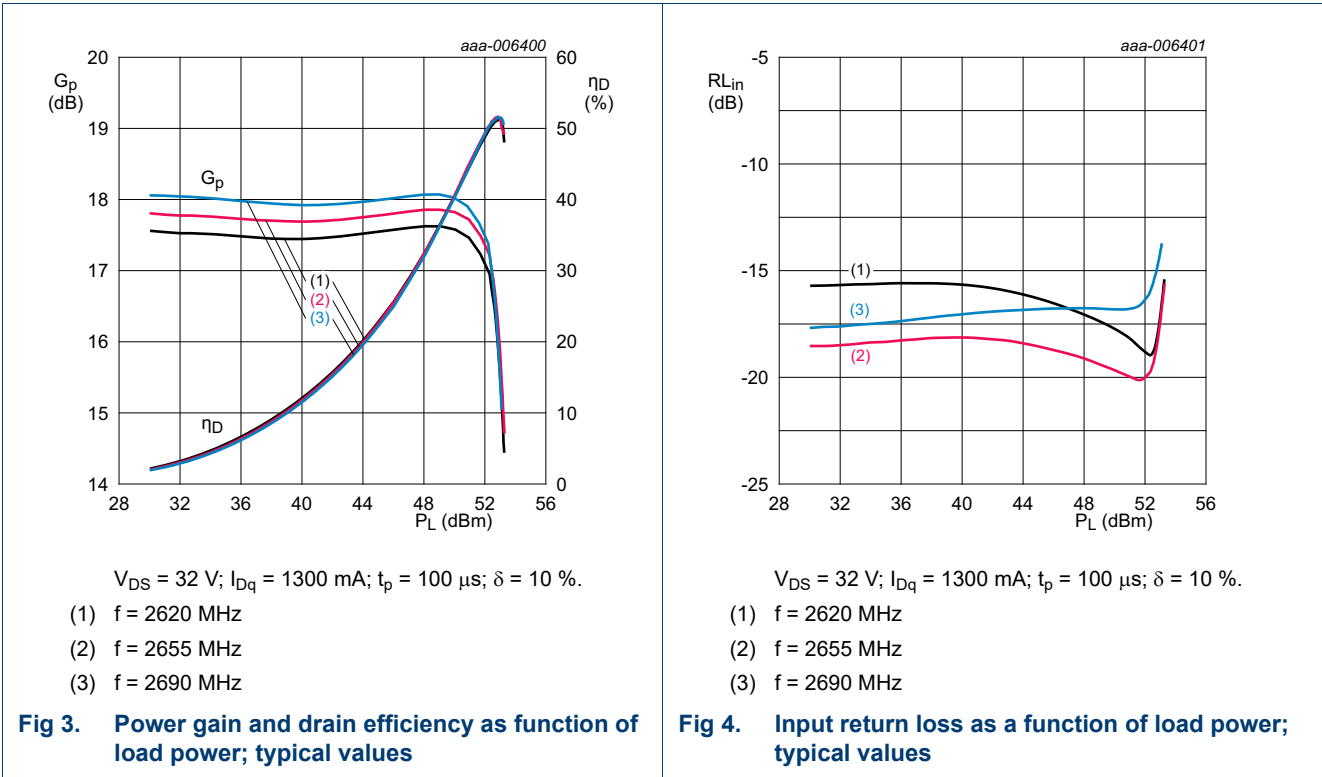
**Table 10. List of components ...continued**  
 For test circuit see [Figure 2](#).

| Component | Description                       | Value                                 | Remarks          |
|-----------|-----------------------------------|---------------------------------------|------------------|
| C11, C12  | multilayer ceramic chip capacitor | 4.7 $\mu$ F, 50 V <a href="#">[2]</a> | Murata           |
| C15       | electrolytic capacitor            | 470 $\mu$ F, 63 V                     |                  |
| R1        | chip resistor                     | 3.9 $\Omega$                          | Philips SMD 1206 |

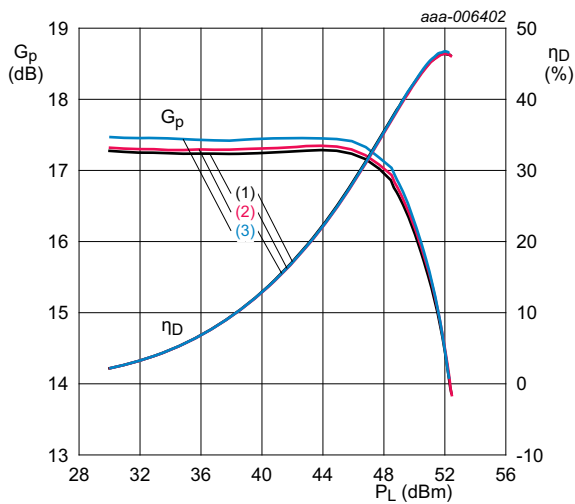
- [1] American Technical Ceramics type 100B or capacitor of same quality.
- [2] Murata or capacitor of same quality.

## 8.5 Graphical data

### 8.5.1 CW pulse



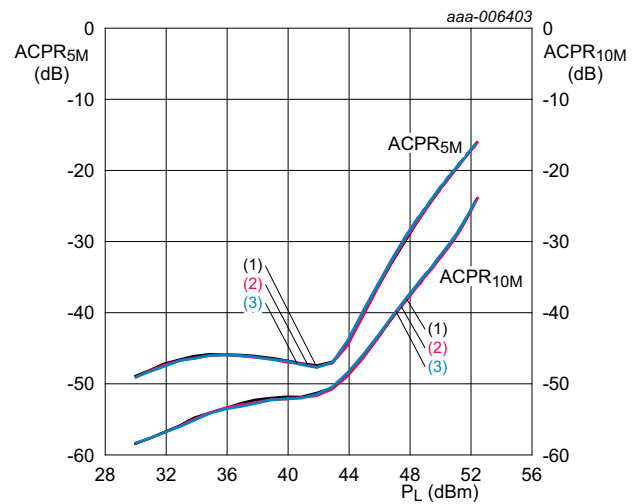
## 8.5.2 2-Carrier W-CDMA



$V_{DS} = 32 \text{ V}$ ;  $I_{DQ} = 1300 \text{ mA}$ .

- (1)  $f = 2620 \text{ MHz}$
- (2)  $f = 2655 \text{ MHz}$
- (3)  $f = 2690 \text{ MHz}$

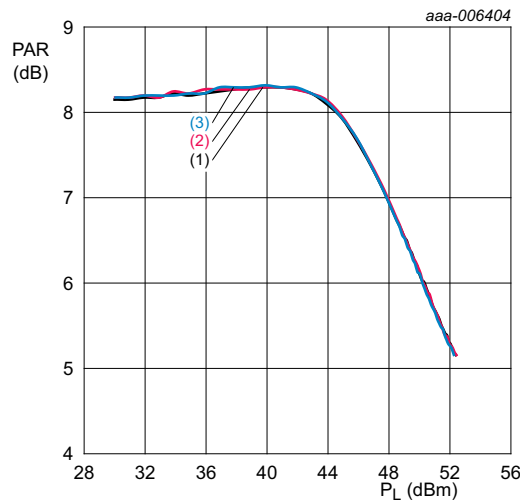
**Fig 5. Power gain and drain efficiency as function of load power; typical values**



$V_{DS} = 32 \text{ V}$ ;  $I_{DQ} = 1300 \text{ mA}$ .

- (1)  $f = 2620 \text{ MHz}$
- (2)  $f = 2655 \text{ MHz}$
- (3)  $f = 2690 \text{ MHz}$

**Fig 6. Adjacent channel power ratio (5MHz) and adjacent channel power ratio (10MHz) as function of load power; typical values**

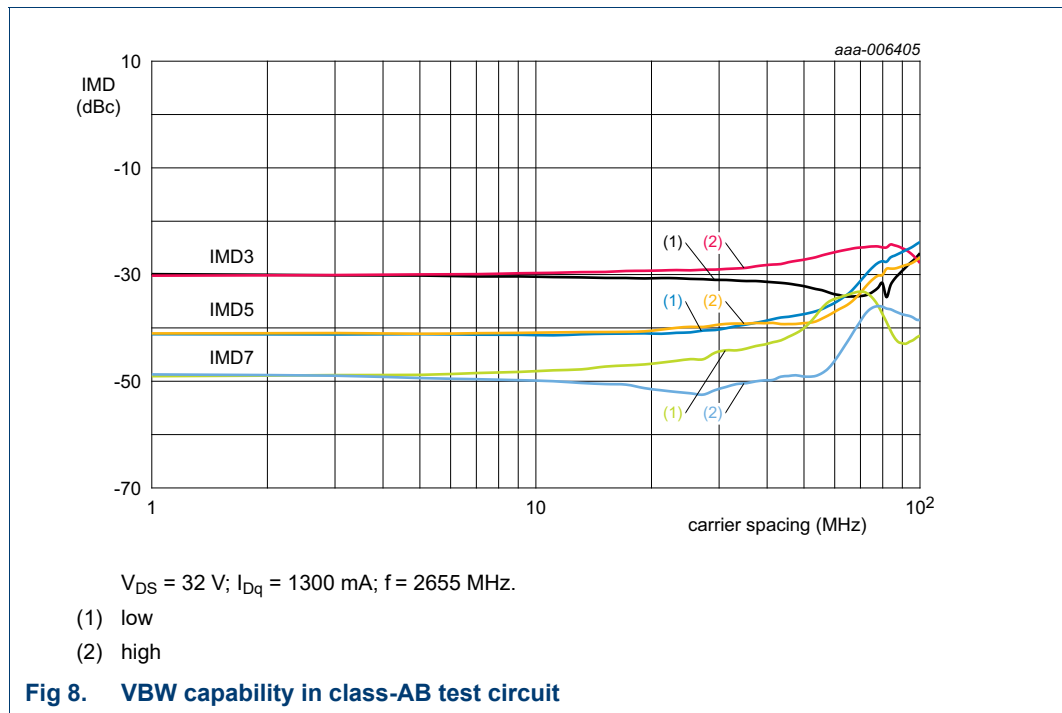


$V_{DS} = 32 \text{ V}$ ;  $I_{DQ} = 1300 \text{ mA}$ .

- (1)  $f = 2620 \text{ MHz}$
- (2)  $f = 2655 \text{ MHz}$
- (3)  $f = 2690 \text{ MHz}$

**Fig 7. Peak-to-average power ratio as a function of load power; typical values**

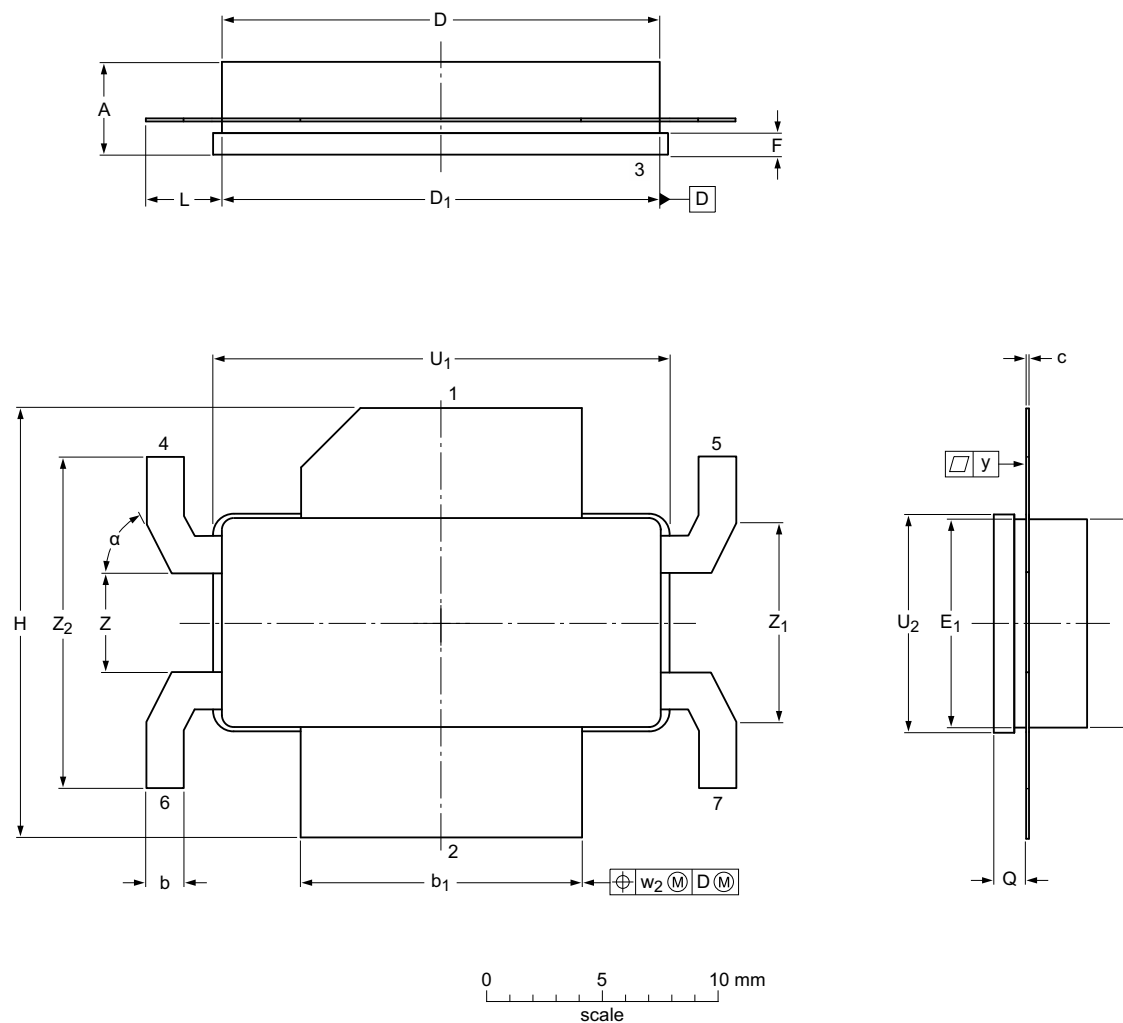
### 8.5.3 2-Tone VBW



## 9. Package outline

Earless flanged LDMOST ceramic package; 6 leads

SOT1120B



Dimensions

| Unit <sup>(1)</sup> | A   | b     | b <sub>1</sub> | c     | D     | D <sub>1</sub> | E     | E <sub>1</sub> | F     | H     | L     | Q <sup>(2)</sup> | U <sub>1</sub> | U <sub>2</sub> | w <sub>2</sub> | y     | Z     | Z <sub>1</sub> | Z <sub>2</sub> | α   |
|---------------------|-----|-------|----------------|-------|-------|----------------|-------|----------------|-------|-------|-------|------------------|----------------|----------------|----------------|-------|-------|----------------|----------------|-----|
| mm                  | max | 4.75  | 1.83           | 12.83 | 0.18  | 20.02          | 19.96 | 9.53           | 9.53  | 1.14  | 19.94 | 3.56             | 1.70           | 20.70          | 9.91           | 0.10  | 4.60  | 9.53           | 15.52          | 64° |
|                     | nom |       |                |       |       |                |       |                |       |       |       |                  |                |                | 0.51           |       |       |                |                |     |
|                     | min | 3.45  | 1.57           | 12.57 | 0.10  | 19.61          | 19.66 | 9.27           | 9.25  | 0.89  | 18.92 | 3.30             | 1.45           | 20.45          | 9.65           |       | 4.32  | 8.71           | 14.50          | 60° |
| inches              | max | 0.187 | 0.072          | 0.505 | 0.007 | 0.788          | 0.786 | 0.375          | 0.375 | 0.045 | 0.785 | 0.140            | 0.067          | 0.815          | 0.39           | 0.004 | 0.181 | 0.375          | 0.611          | 64° |
|                     | nom |       |                |       |       |                |       |                |       |       |       |                  |                |                | 0.02           |       |       |                |                |     |
|                     | min | 0.136 | 0.062          | 0.495 | 0.004 | 0.772          | 0.774 | 0.365          | 0.364 | 0.035 | 0.745 | 0.130            | 0.057          | 0.805          | 0.38           |       | 0.170 | 0.343          | 0.571          | 60° |

Note

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

2. dimension is measured 0.030 inch (0.76 mm) from the body.

sot1120b\_po

| Outline version | References |       |       |  | European projection                                                                   | Issue date           |
|-----------------|------------|-------|-------|--|---------------------------------------------------------------------------------------|----------------------|
|                 | IEC        | JEDEC | JEITA |  |                                                                                       |                      |
| SOT1120B        |            |       |       |  |  | 12-06-14<br>13-10-21 |

Fig 9. Package outline SOT1120B

## 10. Abbreviations

Table 11. 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            |
| LDMOST  | Laterally Diffused Metal Oxide Semiconductor Transistor |
| MTTF    | Mean 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 12. Revision history

| Document ID        | Release date                                                                                                                                                                                                                               | Data sheet status  | Change notice | Supersedes         |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|--------------------|
| BLF8G27LS-140V#4   | 20150901                                                                                                                                                                                                                                   | Product data sheet |               | BLF8G27LS-140V 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> |                    |               |                    |
| BLF8G27LS-140V v.3 | 20150501                                                                                                                                                                                                                                   | Product data sheet | -             | BLF8G27LS-140V v.2 |
| BLF8G27LS-140V v.2 | 20130327                                                                                                                                                                                                                                   | Product data sheet | -             | BLF8G27LS-140V v.1 |
| BLF8G27LS-140V v.1 | 20130307                                                                                                                                                                                                                                   | Product 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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