# BLF6G27-10; BLF6G27-10G

## WiMAX power LDMOS transistor

AMPLEON

Rev. 5 — 1 September 2015 Product data sheet

# 1. Product profile

## 1.1 General description

10 W LDMOS power transistor for base station applications at frequencies from 2300 MHz to 2400 MHz and 2500 MHz to 2700 MHz.

**Table 1. Typical performance**

*RF performance at $T_{case}$ = 25 °C in a class-AB production test circuit.*

| Mode of operation | f | $V_{DS}$ | $P_{L(AV)}$ | $G_p$ | $\eta_D$ | $ACPR_{885k}$ | $ACPR_{1980k}$ |
|---|---|---|---|---|---|---|---|
| | (MHz) | (V) | (W) | (dB) | (%) | (dBc) | (dBc) |
| 1-carrier N-CDMA[1] | 2500 to 2700 | 28 | 2 | 19 | 20 | −49[2] | −64[2] |
| IS-95 | 2300 to 2400 | 28 | 2 | 22.5 | 24.8 | −47[2] | −64[2] |

[1] Single carrier N-CDMA with pilot, paging sync and 6 traffic channels (Walsh codes 8 - 13). PAR = 9.7 dB at 0.01 % probability on CCDF. Channel bandwidth is 1.23 MHz.

[2] Measured within 30 kHz bandwidth.

## 1.2 Features and benefits

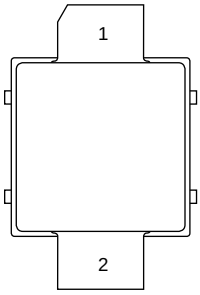
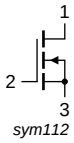
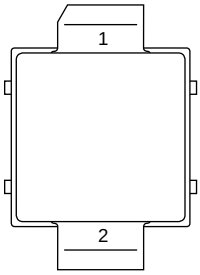
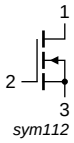
- Typical 1-carrier N-CDMA performance (Single carrier N-CDMA with pilot, paging, sync and 6 traffic channels [Walsh codes 8 - 13]. PAR = 9.7 dB at 0.01 % probability on CCDF. Channel bandwidth is 1.23 MHz), a supply voltage of 28 V and an $I_{Dq}$ of 130 mA:
- Qualified up to a maximum $V_{DS}$ operation of 32 V
- Integrated ESD protection
- Excellent ruggedness
- High efficiency
- Excellent thermal stability
- Designed for broadband operation
- Internally matched for ease of use
- Low gold plating thickness on leads
- Compliant to Directive 2002/95/EC, regarding Restriction of Hazardous Substances (RoHS)

## 1.3 Applications

- RF power amplifiers for base stations and multi carrier applications in the 2300 MHz to 2400 MHz and 2500 MHz to 2700 MHz frequency range.

## 2. Pinning information

**Table 2. Pinning**

| Pin | Description | Simplified outline | Graphic symbol |
|---|---|---|---|
| **BLF6G27-10 (SOT975B)** | | | |
| 1 | drain |  |  |
| 2 | gate | | |
| 3 | source [1] | | |
| **BLF6G27-10G (SOT975C)** | | | |
| 1 | drain |  |  |
| 2 | gate | | |
| 3 | source [1] | | |

[1] Connected to flange.

## 3. Ordering information

**Table 3. Ordering information**

| Type number | Package | | |
|---|---|---|---|
| | Name | Description | Version |
| BLF6G27-10 | - | earless flanged ceramic package; 2 leads | SOT975B |
| BLF6G27-10G | - | earless flanged ceramic package; 2 leads | SOT975C |

## 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 |
| $I_D$ | drain current | | - | 3.5 | A |
| $T_{stg}$ | storage temperature | | −65 | +150 | °C |
| $T_j$ | junction temperature | | - | 225 | °C |

# 5. Thermal characteristics

**Table 5. Thermal characteristics**

| Symbol | Parameter | Conditions | Type | Typ | Unit |
|---|---|---|---|---|---|
| $R_{th(j-case)}$ | thermal resistance from junction to case | $T_{case}$ = 80 °C; $P_L$ = 10 W (CW) | BLF6G27-10 | 4.0 | K/W |
| | | | BLF6G27-10G | 4.0 | K/W |

# 6. Characteristics

**Table 6. Characteristics**

*$T_j$ = 25 °C per section; unless otherwise specified.*

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| $V_{(BR)DSS}$ | drain-source breakdown voltage | $V_{GS}$ = 0 V; $I_D$ = 0.18 mA | 65 | - | - | V |
| $V_{GS(th)}$ | gate-source threshold voltage | $V_{DS}$ = 10 V; $I_D$ = 18 mA | 1.4 | 1.9 | 2.4 | V |
| $I_{DSS}$ | drain leakage current | $V_{GS}$ = 0 V; $V_{DS}$ = 28 V | - | - | 1.4 | μA |
| $I_{DSX}$ | drain cut-off current | $V_{GS}$ = $V_{GS(th)}$ + 3.75 V; $V_{DS}$ = 10 V | 2.7 | - | - | A |
| $I_{GSS}$ | gate leakage current | $V_{GS}$ = 11 V; $V_{DS}$ = 0 V | - | - | 140 | nA |
| $g_{fs}$ | forward transconductance | $V_{DS}$ = 10 V; $I_D$ = 0.9 A | 0.8 | - | - | S |
| $R_{DS(on)}$ | drain-source on-state resistance | $V_{GS}$ = $V_{GS(th)}$ + 3.75 V; $I_D$ = 0.6 A | 328 | - | 1256 | mΩ |
| $C_{rs}$ | feedback capacitance | $V_{GS}$ = 0 V; $V_{DS}$ = 28 V; f = 1 MHz | - | 3.6 | - | pF |

# 7. Application information

**Table 7. Application information**

*Mode of operation: Single carrier N-CDMA with pilot, paging, sync and 6 traffic channels (Walsh codes 8 - 13). PAR 9.7 dB at 0.01 % probability on CCDF; Channel Bandwidth is 1.23 MHz; $f_1$ = 2500 MHz; $f_2$ = 2600 MHz; $f_3$ = 2700 MHz; RF performance at $V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; $T_{case}$ = 25 °C; unless otherwise specified; in a class-AB production circuit.*

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| $P_{L(AV)}$ | average output power | | - | 2 | - | W |
| $G_p$ | power gain | $P_{L(AV)}$ = 2 W | 17.5 | 19 | - | dB |
| $RL_{in}$ | input return loss | $P_{L(AV)}$ = 2 W | - | −10 | - | dB |
| $\eta_D$ | drain efficiency | $P_{L(AV)}$ = 2 W | 18 | 20 | - | % |
| $ACPR_{885k}$ | adjacent channel power ratio (885 kHz) | $P_{L(AV)}$ = 2 W [1] | - | −49 | −46 | dBc |
| $ACPR_{1980k}$ | adjacent channel power ratio (1980 kHz) | $P_{L(AV)}$ = 2 W [1] | - | −64 | −61 | dBc |

[1] Measured within 30 kHz bandwidth.

## 7.1 Ruggedness in class-AB operation

The BLF6G27-10 and BLF6G27-10G are capable of withstanding a load mismatch corresponding to VSWR = 10 : 1 through all phases under the following conditions: $V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; $P_L$ = $P_{L(1dB)}$; f = 2700 MHz.

## 7.2 Ampleon WiMAX signal

### 7.2.1 WiMAX signal description

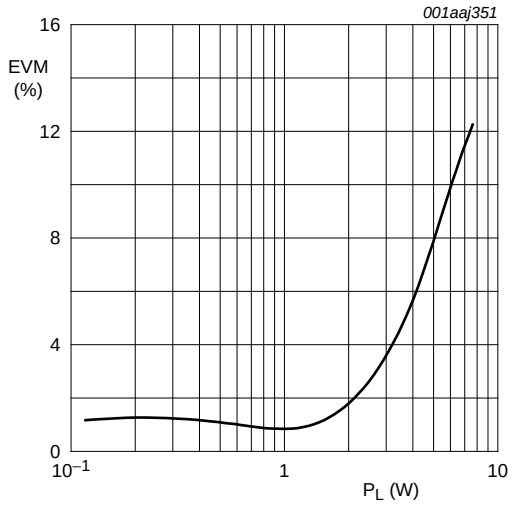
frame duration = 5 ms; bandwidth = 10 MHz; sequency = 1 frame; frequency band = WCS; sampling rate = 11.2 MHz; n = 8 / 7; G = $T_g$ / $T_b$ = 1 / 8; FFT = 1024; zone type = PUSC; $\delta$ = 97.7 %; number of symbols = 46; number of subchannels = 30; PAR = 9.5 dB.

Preamble: 1 symbol × 30 subchannels; $P_L = P_{L(nom)}$ + 3.86 dB.

**Table 8. Frame structure**

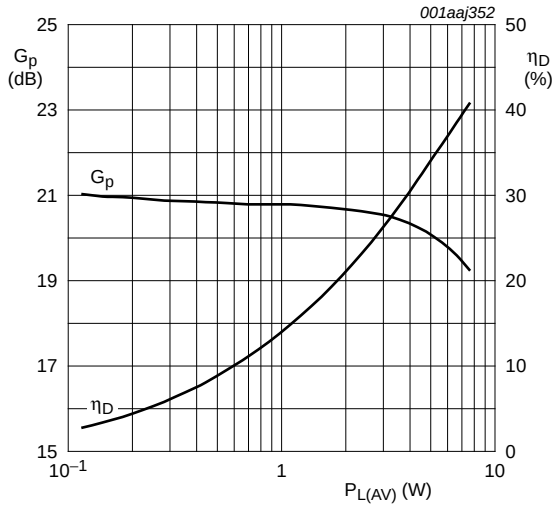
| Frame contents | | | Modulation technique | Data length |
|---|---|---|---|---|
| Zone 0 | FCH | 2 symbols × 4 subchannels | QPSK1/2 | 3 bit |
| Zone 0 | data | 2 symbols × 26 subchannels | 64QAM3/4 | 692 bit |
| Zone 0 | data | 44 symbols × 30 subchannels | 64QAM3/4 | 10000 bit |

### 7.2.2 Graphs



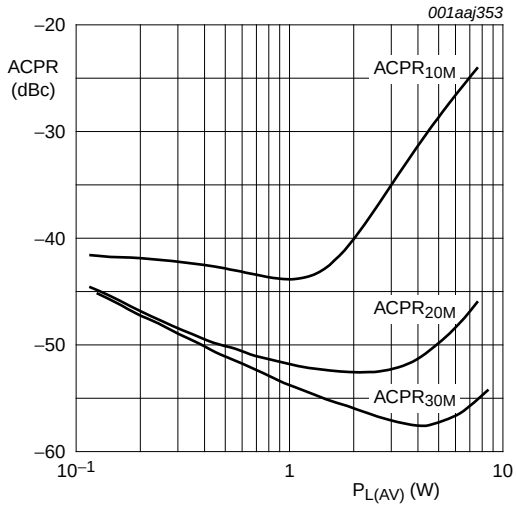

$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; f = 2600 MHz.

**Fig 1. EVM as a function of load power; typical values**




$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; f = 2600 MHz.

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

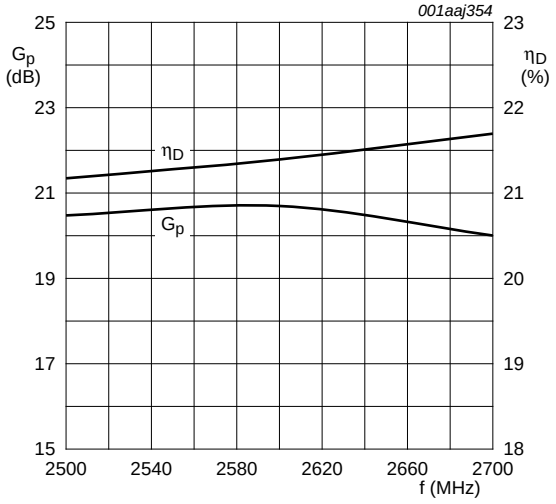



$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; f = 2600 MHz.

**Fig 3. Adjacent channel power ratio as a function of average load power; typical values**

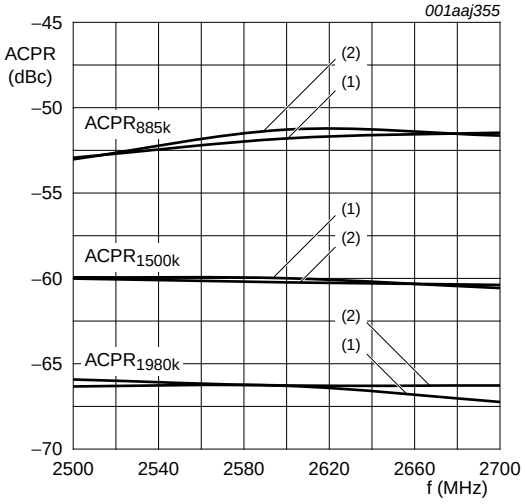
## 7.3 Single carrier NA IS-95 broadband performance at 2 W average

### 7.3.1 Graphs




$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; Single Carrier IS-95; PAR = 9.7 dB at 0.01 % probability.

**Fig 4. Power gain and drain efficiency as function of frequency; typical values**

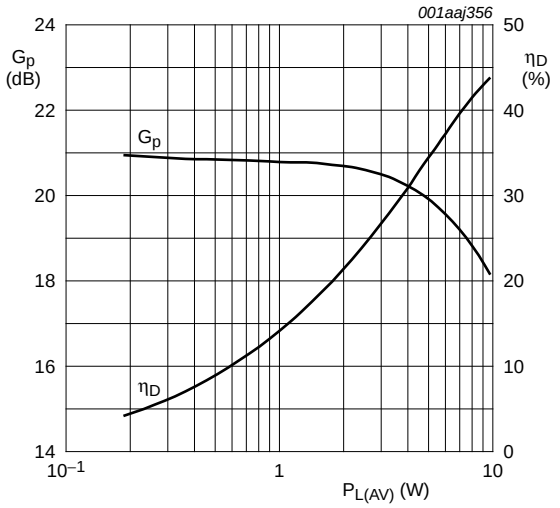



$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; single carrier IS-95; PAR = 9.7 dB at .01 % probability.

(1) Low frequency component

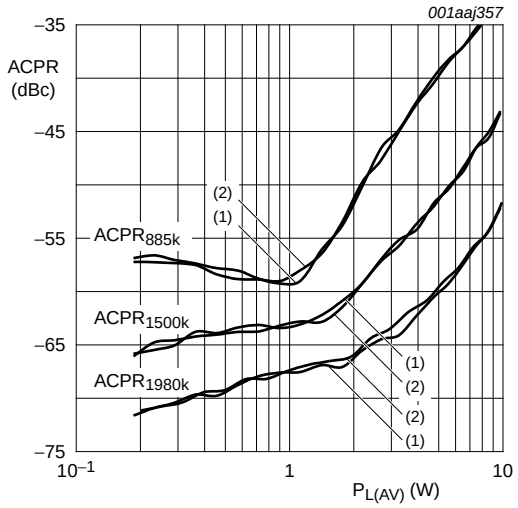
(2) High frequency component

**Fig 5. Adjacent channel power ratio as a function of frequency; typical values**




$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; f = 2600 MHz;
single carrier IS-95; PAR = 9.7 dB at 0.01 % probability;
channel bandwidth = 1.23 MHz.

**Fig 6. Power gain and drain efficiency as function of load power; typical values**

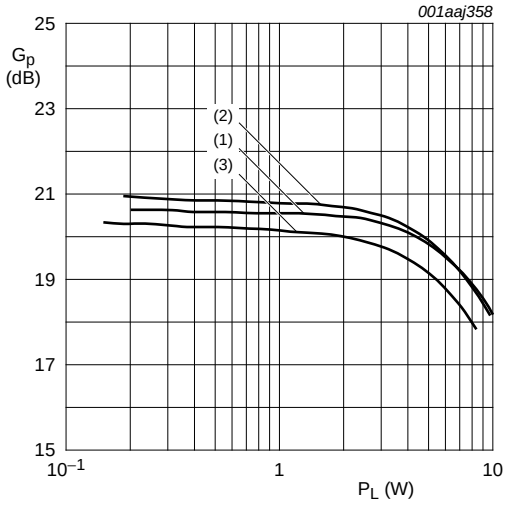



$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; f = 2600 MHz;
single carrier IS-95; PAR = 9.7 dB at 0.01 % probability;
channel bandwidth = 1.23 MHz; IBW = 30 kHz.

(1) Low frequency component

(2) High frequency component

**Fig 7. Adjacent channel power ratio as a function of load power; typical values**



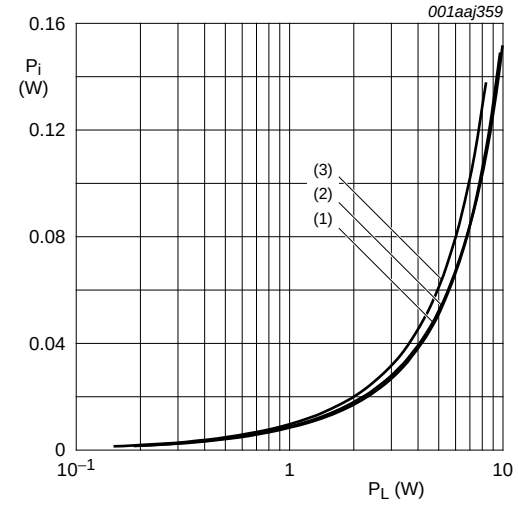

$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; single carrier IS-95;
PAR = 9.7 dB at 0.01 % probability;
channel bandwidth = 1.23 MHz.

(1) f = 2500 MHz

(2) f = 2600 MHz

(3) f = 2700 MHz

**Fig 8. Power gain as a function of load power; typical values**




$V_{DS}$ = 28 V; $I_{Dq}$ = 130 mA; single carrier IS-95;
PAR = 9.7 dB at 0.01 % probability;
channel bandwidth = 1.23 MHz.

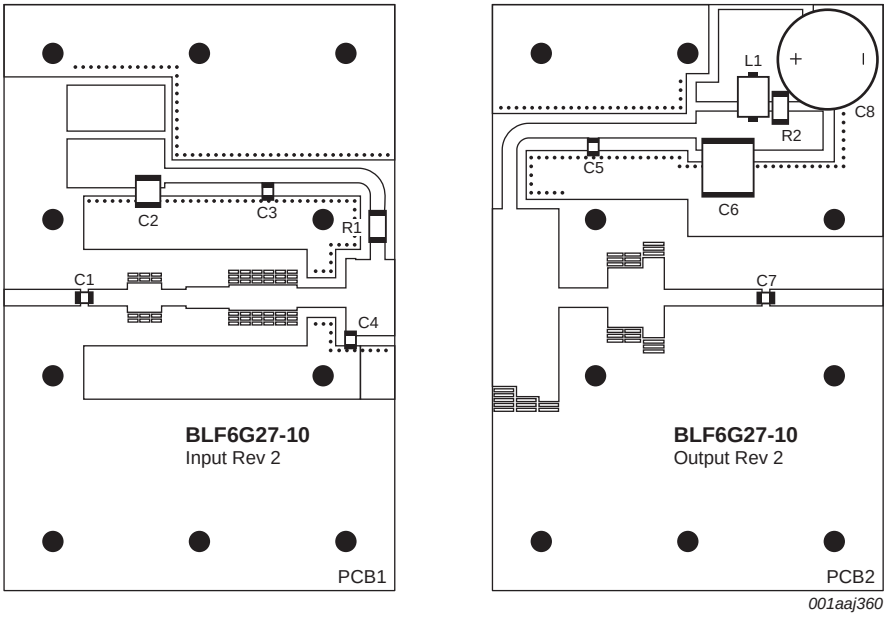
(1) f = 2500 MHz

(2) f = 2600 MHz

(3) f = 2700 MHz

**Fig 9. Input power as a function of load power; typical values**

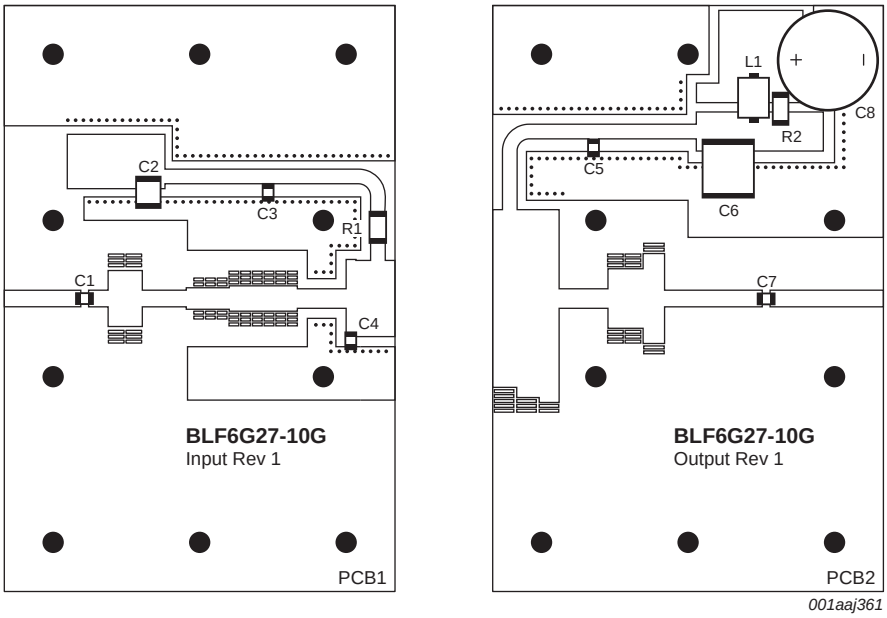
## 8. Test information




Striplines are on a double copper-clad Taconic RF35 Printed-Circuit Board (PCB) with $\varepsilon_r$ = 3.5 and thickness = 0.76 mm.

See Table 9 for list of components.

**Fig 10. Component layout for 2500 MHz to 2700 MHz test circuit BLF6G27-10**




Striplines are on a double copper-clad Taconic RF35 Printed-Circuit Board (PCB) with $\varepsilon_r$ = 3.5 and thickness = 0.76 mm.

See Table 9 for list of components.

**Fig 11. Component layout for 2500 MHz to 2700 MHz test circuit BLF6G27-10G**

**Table 9. List of components**

*For test circuit, see Figure 10 and Figure 11.*

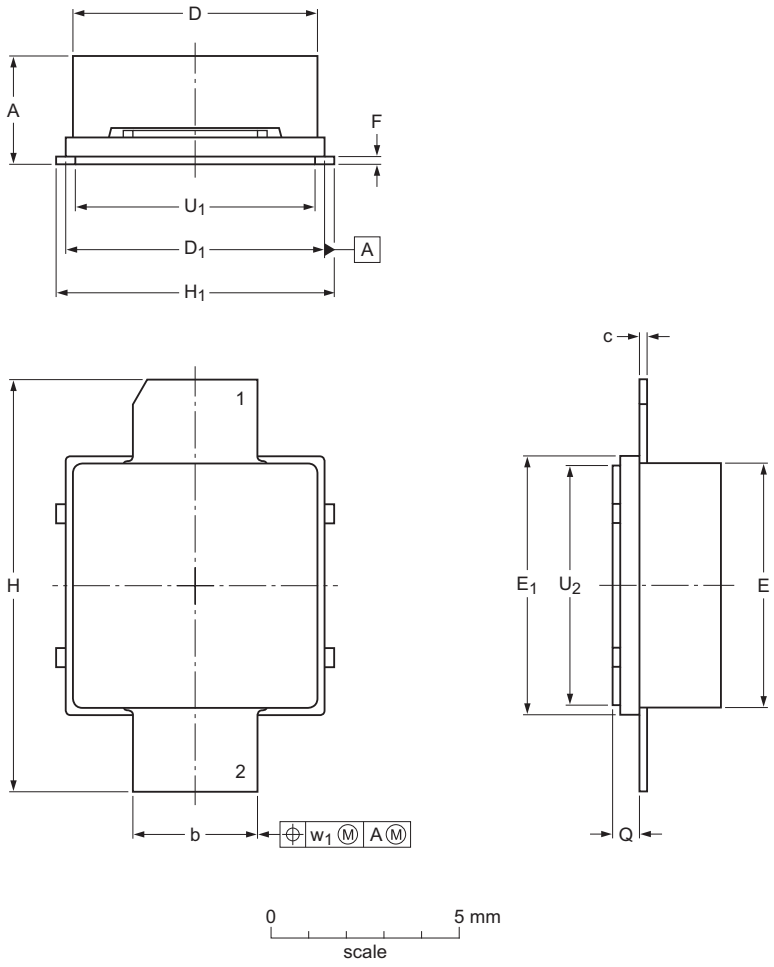
| Component | Description | Value | Remarks |
|---|---|---|---|
| C1, C3, C5, C7 | multilayer ceramic chip capacitor | 22 pF | ATC 100A |
| C2 | multilayer ceramic chip capacitor | 1.5 μF | TDK |
| C4 | multilayer ceramic chip capacitor | 1.6 pF | ATC 100A |
| C6 | multilayer ceramic chip capacitor | 10 μF; 50 V | TDK |
| C8 | electrolytic capacitor | 220 μF; 63 V | Elco |
| L1 | ferrite SMD bead | - | Ferroxcube bead |
| R1, R2 | SMD resistor | 8.2 Ω | Thin film |

**Table 10. Measured test circuit impedances**

| f | $Z_i$ | $Z_o$ |
|---|---|---|
| (GHz) | (Ω) | (Ω) |
| **BLF6G27-10** | | |
| 2.50 | 5.32 – j8.61 | 9.46 – j6.99 |
| 2.55 | 4.85 – j8.09 | 9.44 – j7.41 |
| 2.60 | 4.40 – j7.55 | 9.32 – j7.86 |
| 2.65 | 3.98 – j7.00 | 9.10 – j8.31 |
| 2.70 | 3.59 – j6.43 | 8.77 – j8.75 |
| **BLF6G27-10G** | | |
| 2.50 | 5.67 – j13.62 | 10.70 – j7.38 |
| 2.55 | 5.06 – j12.79 | 10.61 – j8.00 |
| 2.60 | 4.55 – j11.98 | 10.38 – j8.63 |
| 2.65 | 4.10 – j11.19 | 10.00 – j9.24 |
| 2.70 | 3.71 – j10.43 | 9.49 – j9.79 |

# 9. Package outline

**Earless flanged ceramic package; 2 leads** **SOT975B**




Dimensions (mm dimensions are derived from the original inch dimensions)

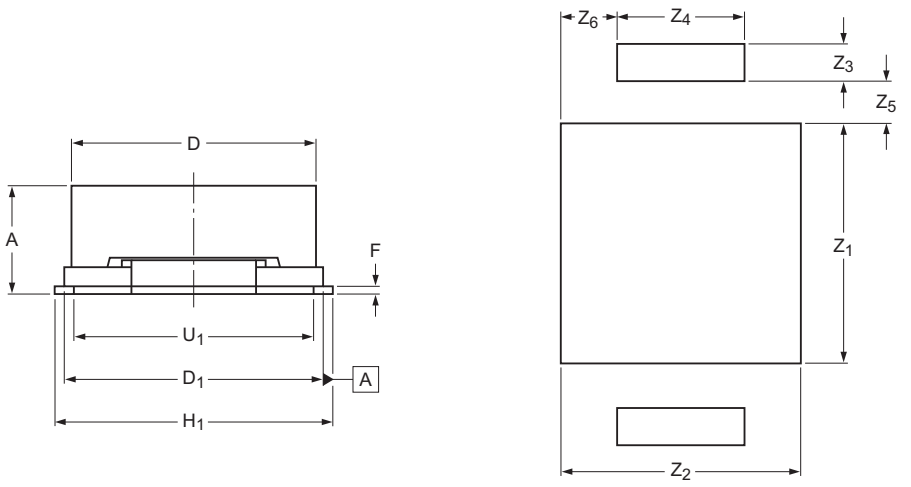
| Unit | | A | b | c | D | $D_1$ | E | $E_1$ | F | H | $H_1$ | Q | $U_1$ | $U_2$ | $w_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | max | 3.15 | 3.38 | 0.23 | 6.55 | 6.93 | 6.55 | 6.93 | 0.23 | 11.05 | 7.49 | 0.76 | 6.43 | 6.43 | 0.51 |
| | nom | | | | | | | | | | | | | | |
| | min | 2.59 | 3.23 | 0.18 | 6.40 | 6.78 | 6.40 | 6.78 | 0.18 | 10.80 | 6.73 | 0.66 | 6.27 | 6.27 | |
| inches | max | 0.124 | 0.133 | 0.009 | 0.258 | 0.273 | 0.258 | 0.273 | 0.009 | 0.435 | 0.295 | 0.030 | 0.253 | 0.253 | 0.02 |
| | nom | | | | | | | | | | | | | | |
| | min | 0.102 | 0.127 | 0.007 | 0.252 | 0.267 | 0.252 | 0.267 | 0.007 | 0.425 | 0.265 | 0.026 | 0.247 | 0.247 | |

*sot975b_po*

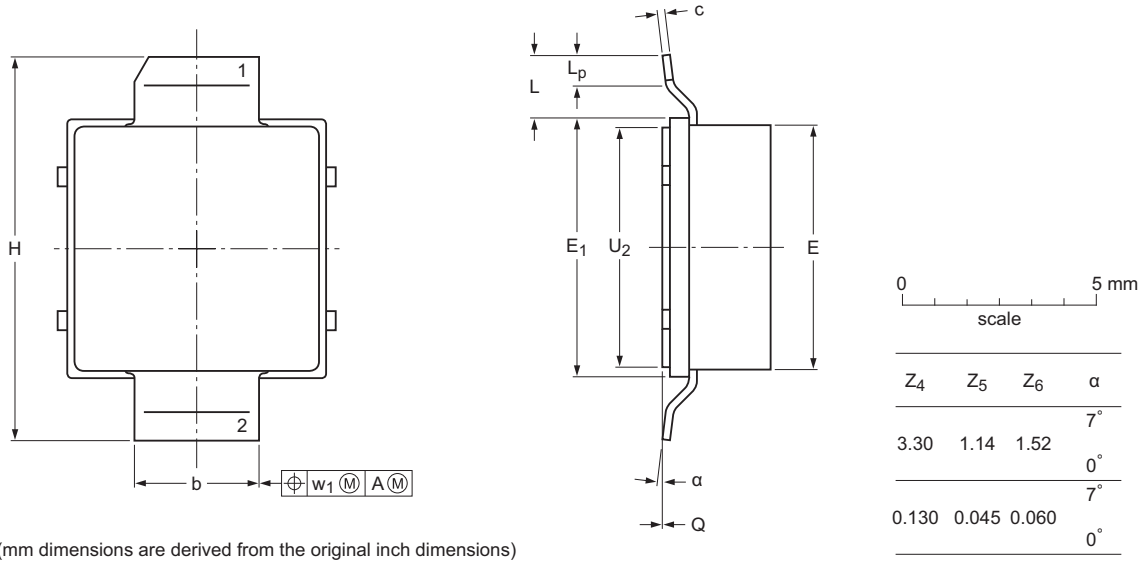
| Outline version | References | | | | European projection | Issue date |
|---|---|---|---|---|---|---|
| | IEC | JEDEC | JEITA | | | |
| SOT975B | | | | | | ~~07-09-28~~ 14-10-20 |

**Fig 12. Package outline SOT975B**

**Earless flanged ceramic package; 2 leads** **SOT975C**




minimal dimensions for solder pattern




| Z4 | Z5 | Z6 | α |
|---|---|---|---|
| | | | 7° |
| 3.30 | 1.14 | 1.52 | 0° |
| | | | 7° |
| 0.130 | 0.045 | 0.060 | 0° |

Dimensions (mm dimensions are derived from the original inch dimensions)

| Unit | | A | b | c | D | $D_1$ | E | $E_1$ | F | H | $H_1$ | L | $L_p$ | Q | $U_1$ | $U_2$ | $w_1$ | $Z_1$ | $Z_2$ | $Z_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | max | 3.15 | 3.38 | 0.23 | 6.55 | 6.93 | 6.55 | 6.93 | 0.23 | 10.29 | 7.49 | | 1.02 | +0.05 | 6.43 | 6.43 | | | | |
| | nom | | | | | | | | | | | 1.65 | | | | | 0.51 | 6.35 | 6.35 | 1.02 |
| | min | 2.59 | 3.23 | 0.18 | 6.40 | 6.78 | 6.40 | 6.78 | 0.18 | 10.03 | 6.73 | | 0.51 | -0.05 | 6.27 | 6.27 | | | | |
| inches | max | 0.124 | 0.133 | 0.009 | 0.258 | 0.273 | 0.258 | 0.273 | 0.009 | 0.405 | 0.295 | | 0.040 | +0.002 | 0.253 | 0.253 | | | | |
| | nom | | | | | | | | | | | 0.065 | | | | | 0.020 | 0.250 | 0.250 | 0.040 |
| | min | 0.102 | 0.127 | 0.007 | 0.252 | 0.267 | 0.252 | 0.267 | 0.007 | 0.395 | 0.265 | | 0.020 | -0.002 | 0.247 | 0.247 | | | | |

*sot975c_po*

| Outline version | References | | | | European projection | Issue date |
|---|---|---|---|---|---|---|
| | IEC | JEDEC | JEITA | | | |
| SOT975C | | | | | | ~~08-07-10~~ 14-10-13 |

**Fig 13. Package outline SOT975C**

## 10. Abbreviations

**Table 11. Abbreviations**

| Acronym | Description |
|---|---|
| CCDF | Complementary Cumulative Distribution Function |
| CW | Continuous Wave |
| EVM | Error Vector Magnitude |
| FCH | Frame Control Header |
| FFT | Fast Fourier Transform |
| IBW | Instantaneous BandWidth |
| IS-95 | Interim Standard 95 |
| LDMOS | Laterally Diffused Metal-Oxide Semiconductor |
| NA | North American |
| N-CDMA | Narrowband Code Division Multiple Access |
| PAR | Peak-to-Average power Ratio |
| PUSC | Partial Usage of SubChannels |
| RF | Radio Frequency |
| SMD | Surface Mounted Device |
| VSWR | Voltage Standing-Wave Ratio |
| WCS | Wireless Communications Service |
| WiMAX | Worldwide Interoperability for Microwave Access |

## 11. Revision history

**Table 12. Revision history**

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|---|---|---|---|---|
| BLF6G27-10_BLF6G27-10G#5 | 20150901 | Product data sheet | - | BLF6G27-10_BLF6G27-10G v.4 |
| Modifications: | • The format of this document has been redesigned to comply with the new identity guidelines of Ampleon.<br>• Legal texts have been adapted to the new company name where appropriate. | | | |
| BLF6G27-10_BLF6G27-10G v.4 | 20141216 | Product data sheet | - | BLF6G27-10_BLF6G27-10G v.3 |
| BLF6G27-10_BLF6G27-10G v.3 | 20110228 | Product data sheet | - | BLF6G27-10_BLF6G27-10G v.2 |
| BLF6G27-10_BLF6G27-10G v.2 | 20101202 | Product data sheet | - | BLF6G27-10_BLF6G27-10G v.1 |
| BLF6G27-10_BLF6G27-10G v.1 | 20090204 | Product data sheet | - | - |

# 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.

## 12.2 Definitions

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## 13. Contact information

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For sales office addresses, please visit:
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## 14. Contents





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