

BLF6G38-50; BLF6G38LS-50

WiMAX power LDMOS transistor

Rev. 02 — 1 June 2010

Product data sheet

1. Product profile

1.1 General description

50 W LDMOS power transistor for base station applications at frequencies from 3400 MHz to 3800 MHz.

Table 1. Typical performance

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

| Mode of operation | f (MHz) | V_{DS} (V) | $P_{L(AV)}$ (W) | $P_{L(M)}$ ^[1] (W) | G_p (dB) | η_D (%) | $\text{ACPR}_{885\text{K}}$ (dBc) | $\text{ACPR}_{1980\text{K}}$ (dBc) |
|---------------------------------|--------------|--------------|-----------------|-------------------------------|------------|--------------|-----------------------------------|------------------------------------|
| 1-carrier N-CDMA ^[2] | 3400 to 3600 | 28 | 9 | 70 | 14 | 23 | -49 ^[3] | -64 ^[3] |

[1] $P_{L(M)}$ stands for peak output power.

[2] 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 the CCDF. Channel bandwidth is 1.23 MHz.

[3] Measured within 30 kHz bandwidth.

CAUTION



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

1.2 Features and benefits

- Typical 1-carrier N-CDMA performance (Single carrier N-CDMA with pilot, paging, synchronization and 6 traffic channels [Walsh codes 8 - 13]. PAR = 9.7 dB at 0.01 % probability on the CCDF. Channel bandwidth is 1.23 MHz) at a frequency of 3400 MHz, 3500 MHz and 3600 MHz, a supply voltage of 28 V, an I_{Dq} of 450 mA, a power gain of 14 dB, a drain efficiency of 23 % and a peak output power of 70 W:
- Qualified up to a maximum V_{DS} operation of 32 V
- Suitable for operation in the 3.4 GHz to 3.8 GHz frequency range
- 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 multicarrier applications in the 3400 MHz to 3800 MHz frequency range

2. Pinning information

Table 2. Pinning

| Pin | Description | Simplified outline | Graphic symbol |
|-------------------------------|-------------|--------------------|----------------|
| BLF6G38-50 (SOT502A) | | | |
| 1 | drain | | |
| 2 | gate | | |
| 3 | source | [1] | |
| BLF6G38LS-50 (SOT502B) | | | |
| 1 | drain | | |
| 2 | gate | | |
| 3 | source | [1] | |

[1] Connected to flange.

3. Ordering information

Table 3. Ordering information

| Type number | Package | | | Version |
|--------------|---------|--|--|---------|
| | Name | Description | | |
| BLF6G38-50 | - | flanged ceramic package; 2 mounting holes; 2 leads | | SOT502A |
| BLF6G38LS-50 | - | earless flanged ceramic package; 2 leads | | SOT502B |

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 | | - | 16.5 | A |
| T_{stg} | storage temperature | | -65 | +150 | °C |
| T_j | junction temperature | | - | 200 | °C |

5. Thermal characteristics

Table 5. Thermal characteristics

| Symbol | Parameter | Conditions | Type | Typ | Unit |
|------------------|--|--|--------------|-----|------|
| $R_{th(j-case)}$ | thermal resistance from junction to case | $T_{case} = 80^\circ\text{C}$; $P_L = 50 \text{ W}$ | BLF6G38-50 | 0.9 | - |
| | | | BLF6G38LS-50 | 0.7 | - |

6. Characteristics

Table 6. Characteristics

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

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---------------|----------------------------------|--|------|------|------|---------------|
| $V_{(BR)DSS}$ | drain-source breakdown voltage | $V_{GS} = 0 \text{ V}$; $I_D = 0.4 \text{ mA}$ | 65 | - | - | V |
| $V_{GS(th)}$ | gate-source threshold voltage | $V_{DS} = 10 \text{ V}$; $I_D = 80 \text{ mA}$ | 1.4 | 2 | 2.4 | V |
| I_{DSS} | drain leakage current | $V_{GS} = 0 \text{ V}$; $V_{DS} = 28 \text{ V}$ | - | - | 2.8 | μA |
| I_{DSX} | drain cut-off current | $V_{GS} = V_{GS(th)} + 3.75 \text{ V}$; $V_{DS} = 10 \text{ V}$ | 11.8 | 16.4 | - | A |
| I_{GSS} | gate leakage current | $V_{GS} = +11 \text{ V}$; $V_{DS} = 0 \text{ V}$ | - | - | 280 | nA |
| g_{fs} | forward transconductance | $V_{DS} = 10 \text{ V}$; $I_D = 2.8 \text{ A}$ | - | 5.6 | - | S |
| $R_{DS(on)}$ | drain-source on-state resistance | $V_{GS} = V_{GS(th)} + 3.75 \text{ V}$; $I_D = 2.8 \text{ A}$ | - | 0.18 | 0.29 | Ω |
| C_{rs} | feedback capacitance | $V_{GS} = 0 \text{ V}$; $V_{DS} = 28 \text{ V}$; $f = 1 \text{ MHz}$ | - | 1.17 | - | pF |

7. Application information

Table 7. Application information

Mode of operation: 1-carrier N-CDMA; 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 the CCDF; Channel bandwidth is 1.23 MHz; $f_1 = 3400 \text{ MHz}$; $f_2 = 3500 \text{ MHz}$; $f_3 = 3600 \text{ MHz}$; RF performance at $V_{DS} = 28 \text{ V}$; $I_{Dq} = 450 \text{ mA}$; $T_{case} = 25^\circ\text{C}$; unless otherwise specified, in a class-AB production circuit.

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit | |
|----------------|---|---------------------------|------|-----|-----|------|-----|
| $P_{L(M)}$ | peak output power | $P_{L(AV)} = 9 \text{ W}$ | 65 | 70 | - | W | |
| G_p | power gain | $P_{L(AV)} = 9 \text{ W}$ | 12.5 | 14 | - | dB | |
| RL_{in} | input return loss | $P_{L(AV)} = 9 \text{ W}$ | - | -10 | - | dB | |
| η_D | drain efficiency | $P_{L(AV)} = 9 \text{ W}$ | 20 | 23 | - | % | |
| $ACPR_{885k}$ | adjacent channel power ratio (885 kHz) | $P_{L(AV)} = 9 \text{ W}$ | [1] | -46 | -49 | - | dBc |
| $ACPR_{1980k}$ | adjacent channel power ratio (1980 kHz) | $P_{L(AV)} = 9 \text{ W}$ | [1] | -62 | -64 | - | dBc |

[1] Measured within 30 kHz bandwidth.

7.1 Ruggedness in class-AB operation

The BLF6G38-50 and BLF6G38LS-50 are capable of withstanding a load mismatch corresponding to $VSWR = 10 : 1$ through all phases under the following conditions: $V_{DS} = 28 \text{ V}$; $I_{Dq} = 450 \text{ mA}$; $P_L = P_{L(1dB)}$; $f = 3600 \text{ MHz}$.

7.2 NXP WiMAX signal

7.2.1 WiMAX signal description

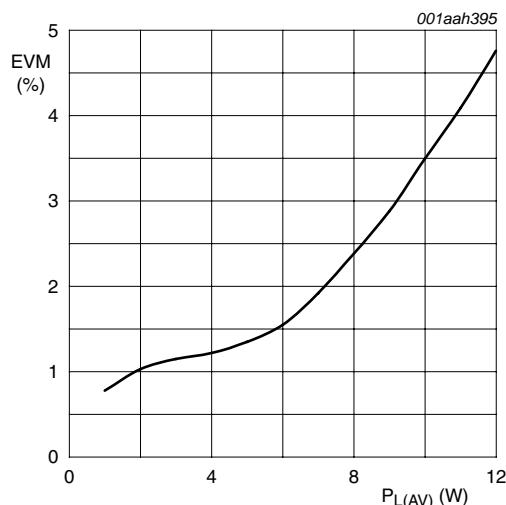
Frame duration = 5 ms; bandwidth = 10 MHz; sequency = 1 frame;
 frequency band = WCS; sampling rate = 11.2 MHz; $n = 8 / 7$; $G = T_g / T_b = 1 / 8$;
 FFT = 1024; zone type = PUSC; $\delta = 97.7\%$; number of symbols = 46;
 number of subchannels = 30; PAR = 9.5 dB.

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

Table 8. Frame structure

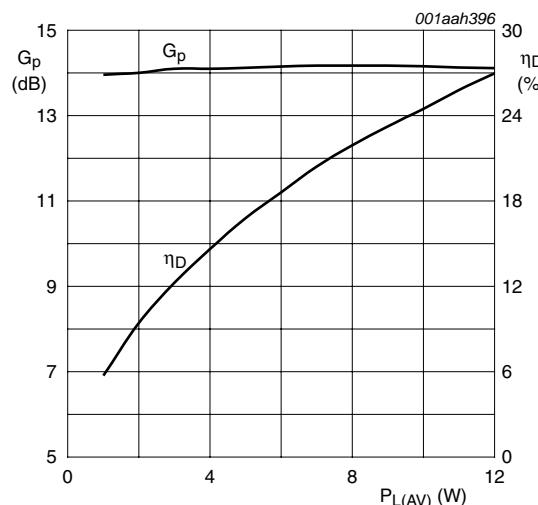
| Frame contents | | Modulation technique | Data length | |
|----------------|------|------------------------------------|-------------|-----------|
| Zone 0 | FCH | 2 symbols \times 4 subchannels | QPSK1/2 | 3 bit |
| Zone 0 | data | 2 symbols \times 26 subchannels | 64QAM3/4 | 692 bit |
| Zone 0 |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

7.2.2 Graphs



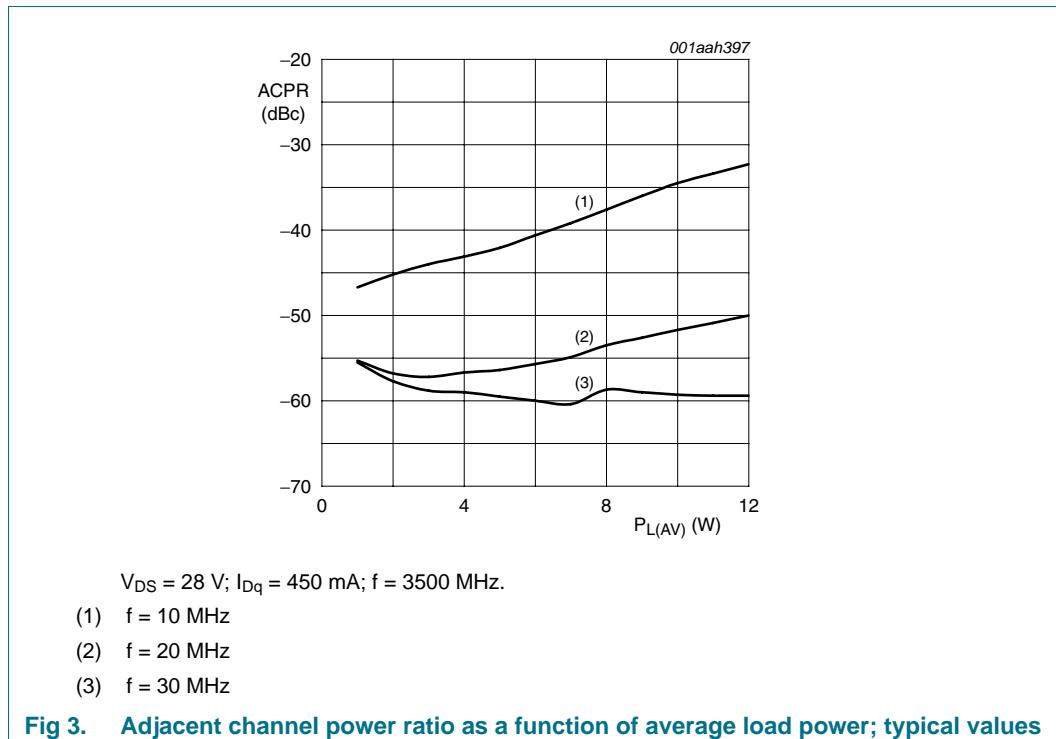
$V_{DS} = 28 \text{ V}$; $I_{Dq} = 450 \text{ mA}$; $f = 3500 \text{ MHz}$.

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



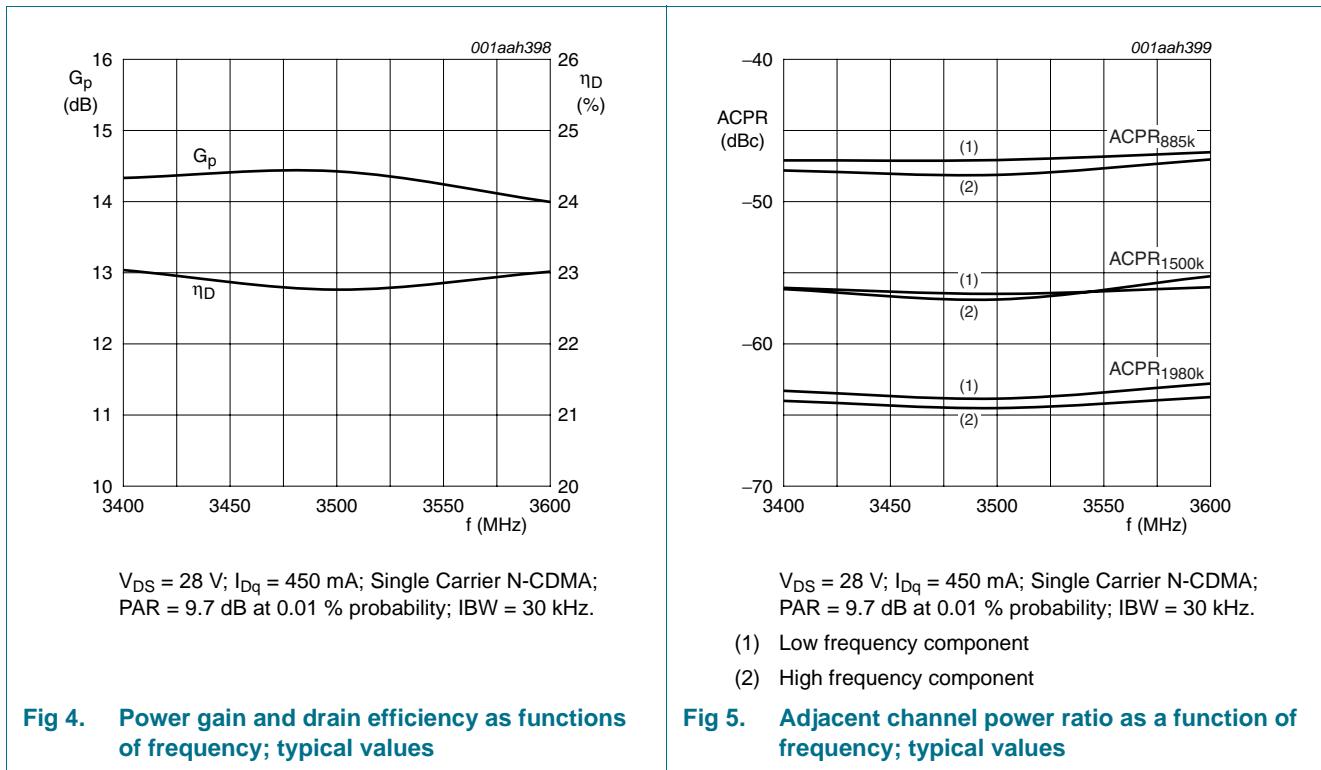
$V_{DS} = 28 \text{ V}$; $I_{Dq} = 450 \text{ mA}$; $f = 3500 \text{ MHz}$.

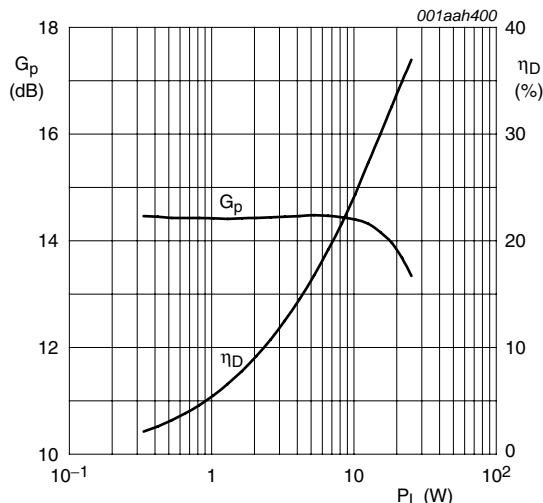
Fig 2. Power gain and drain efficiency as functions of average load power; typical values



7.3 Single carrier N-CDMA broadband performance at 9 W average

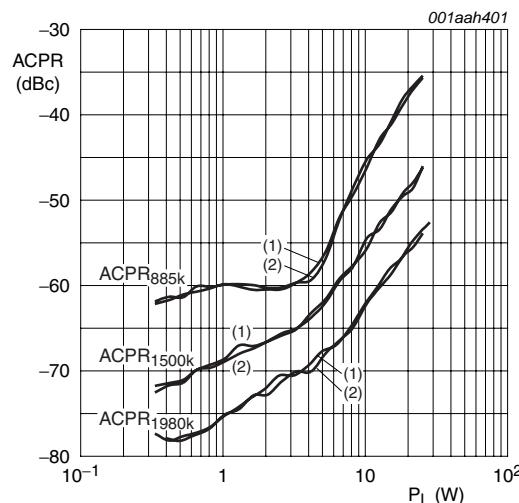
7.3.1 Graphs





$V_{DS} = 28$ V; $I_{DQ} = 450$ mA; $f = 3500$ MHz; Single Carrier N-CDMA; PAR = 9.7 dB at 0.01 % probability; Channel Bandwidth = 1.23 MHz; IBW = 30 kHz.

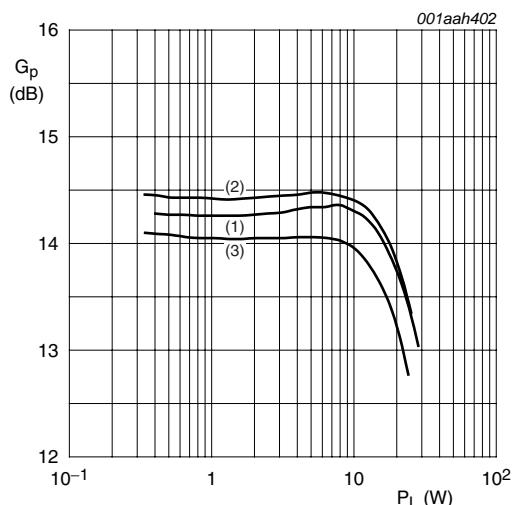
Fig 6. Power gain and drain efficiency as functions of load power; typical values



$V_{DS} = 28$ V; $I_{DQ} = 450$ mA; $f = 3500$ MHz; Single Carrier N-CDMA; PAR = 9.7 dB at 0.01 % probability; Channel Bandwidth = 1.23 MHz; IBW = 30 kHz.

- (1) Low frequency component
- (2) High frequency component

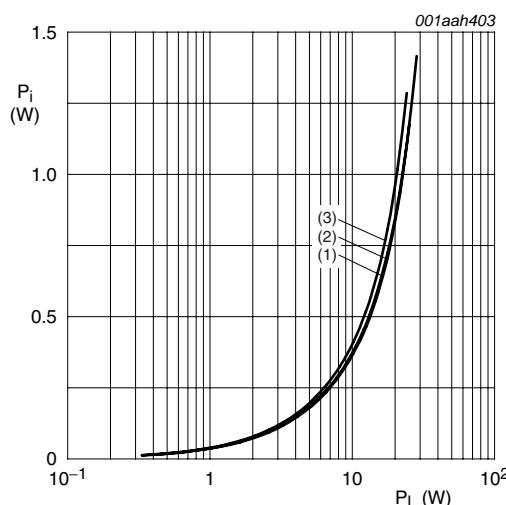
Fig 7. Adjacent channel power ratio as a function of load power; typical values



$V_{DS} = 28$ V; $I_{DQ} = 450$ mA; Single Carrier N-CDMA; PAR = 9.7 dB at 0.01 % probability; Channel Bandwidth = 1.23 MHz; IBW = 30 kHz.

- (1) $f = 3400$ MHz
- (2) $f = 3500$ MHz
- (3) $f = 3600$ MHz

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

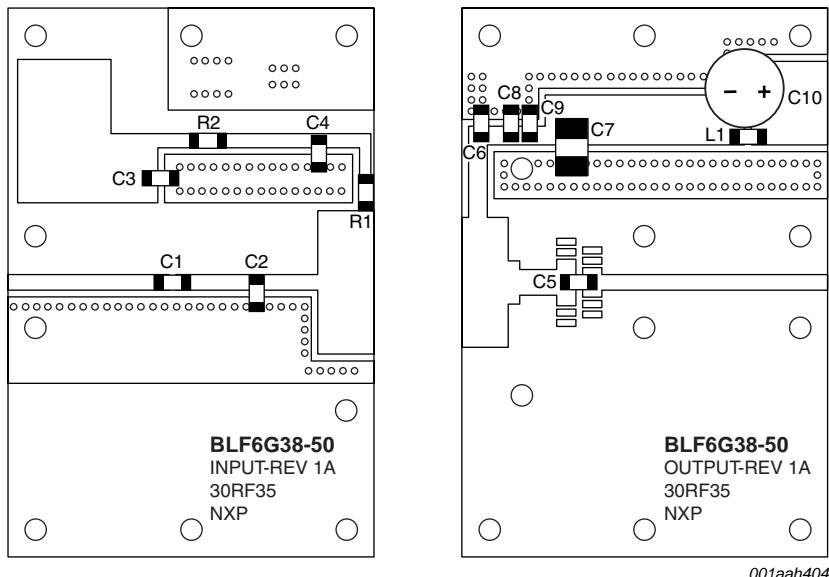


$V_{DS} = 28$ V; $I_{DQ} = 450$ mA; Single Carrier N-CDMA; PAR = 9.7 dB at 0.01 % probability; Channel Bandwidth = 1.23 MHz; IBW = 30 kHz.

- (1) $f = 3400$ MHz
- (2) $f = 3500$ MHz
- (3) $f = 3600$ 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 $\epsilon_r = 3.5$ and thickness = 0.76 mm.

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

Fig 10. Component layout for 3400 MHz to 3600 MHz test circuit

Table 9. List of components

For test circuit, see [Figure 10](#).

| Component | Description | Value | Remarks |
|----------------|-----------------------------------|-------------------|--|
| C1, C4, C5, C6 | multilayer ceramic chip capacitor | 10 pF | [1] |
| C2 | multilayer ceramic chip capacitor | 0.7 pF | [1] |
| C3, C8, C9 | multilayer ceramic chip capacitor | 100 nF | [2] |
| C7 | multilayer ceramic chip capacitor | 10 μ F; 50 V | [3] |
| C10 | electrolytic capacitor | 470 μ F; 63 V | |
| R1, R2 | SMD resistor | 9.1 Ω | |
| L1 | ferrite SMD bead | - | Ferroxcube BDS 3/3/4.6-4S2 or equivalent |

[1] American Technical Ceramics type 100A or capacitor of same quality.

[2] Vishay VJ1206Y104KXB or capacitor of same quality.

[3] TDK C5750X7R1H106M or capacitor of same quality.

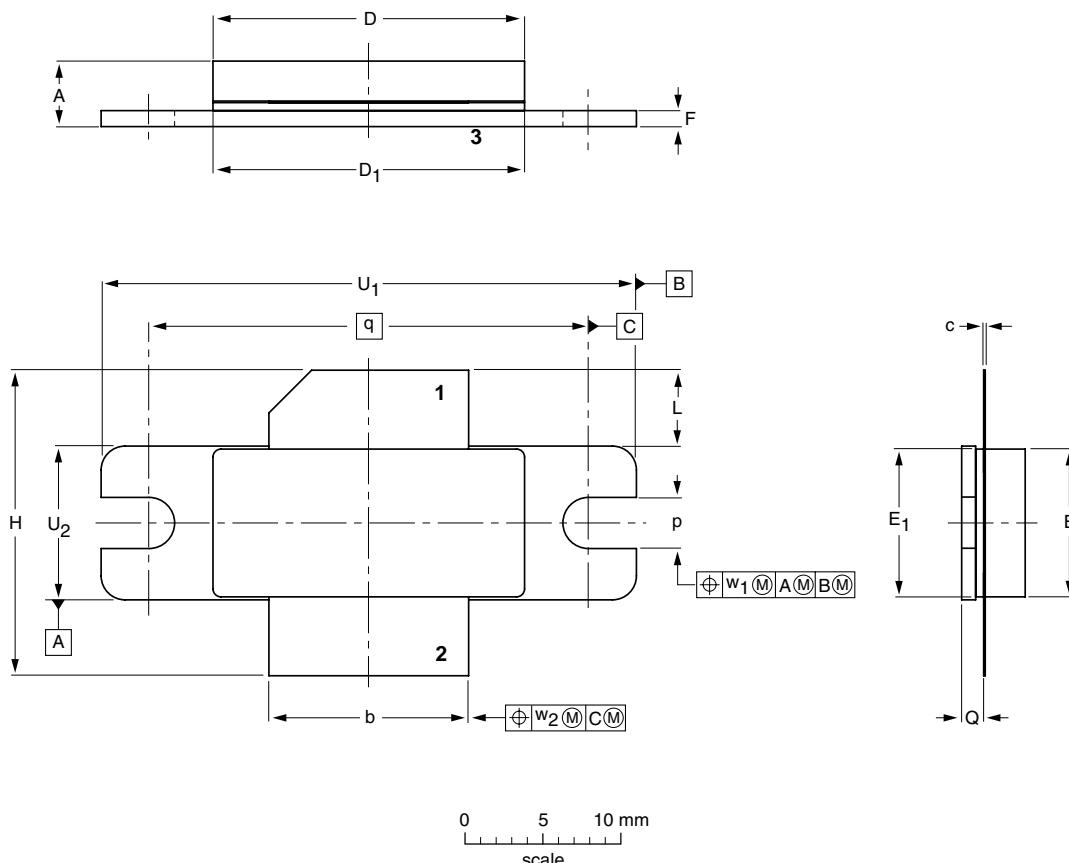
Table 10. Measured test circuit impedances

| f (GHz) | Z _i (Ω) | Z _o (Ω) |
|------------|--------------------------------|--------------------------------|
| 3.4 | 5.48 – j9.38 | 12.42 – j4.58 |
| 3.5 | 5.39 – j9.43 | 10.41 – j5.31 |
| 3.6 | 5.55 – j9.15 | 14.31 – j7.04 |
| 3.8 | 9.60 – j12.48 | 17.70 – j11.57 |

9. Package outline

Flanged LDMOST ceramic package; 2 mounting holes; 2 leads

SOT502A



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

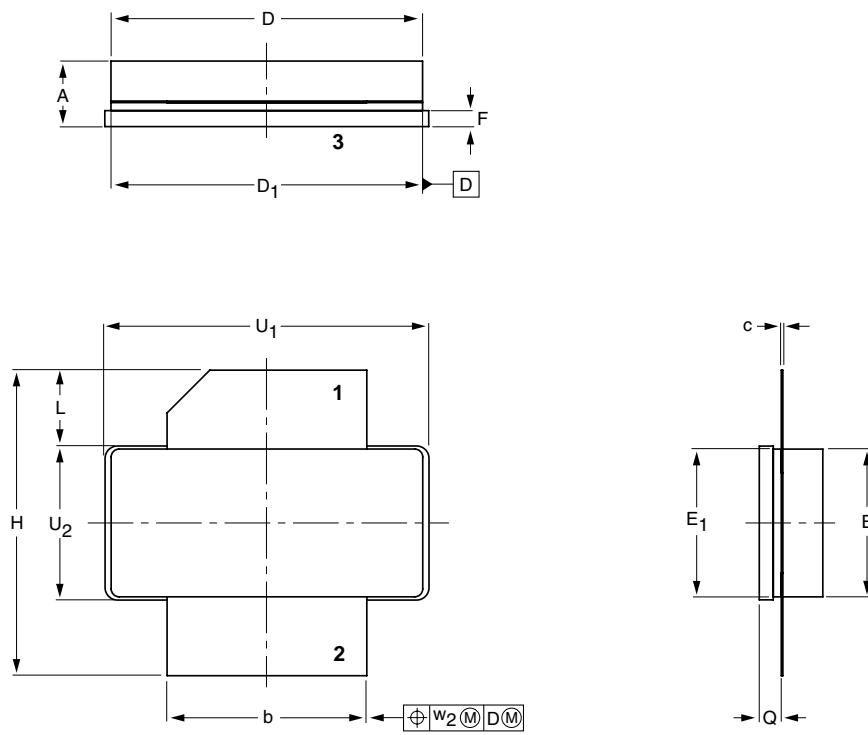
| UNIT | A | b | c | D | D ₁ | E | E ₁ | F | H | L | p | Q | q | U ₁ | U ₂ | w ₁ | w ₂ |
|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| mm | 4.72 3.43 | 12.83 12.57 | 0.15 0.08 | 20.02 19.61 | 19.96 19.66 | 9.50 9.30 | 9.53 9.25 | 1.14 0.89 | 19.94 18.92 | 5.33 4.32 | 3.38 3.12 | 1.70 1.45 | 27.94 27.94 | 34.16 33.91 | 9.91 9.65 | 0.25 0.25 | 0.51 0.51 |
| inches | 0.186 0.135 | 0.505 0.495 | 0.006 0.003 | 0.788 0.772 | 0.786 0.774 | 0.374 0.366 | 0.375 0.364 | 0.045 0.035 | 0.785 0.745 | 0.210 0.170 | 0.133 0.123 | 0.067 0.057 | 1.100 1.100 | 1.345 1.335 | 0.390 0.380 | 0.01 0.01 | 0.02 0.02 |

| OUTLINE VERSION | REFERENCES | | | | EUROPEAN PROJECTION | ISSUE DATE |
|-----------------|------------|-------|-------|--|---------------------|------------------------|
| | IEC | JEDEC | JEITA | | | |
| SOT502A | | | | | | -99-12-28- 03-01-10 |

Fig 11. Package outline SOT502A

Earless flanged LDMOST ceramic package; 2 leads

SOT502B



0 5 10 mm
scale

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

| UNIT | A | b | c | D | D ₁ | E | E ₁ | F | H | L | Q | U ₁ | U ₂ | w ₂ |
|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| mm | 4.72 3.43 | 12.83 12.57 | 0.15 0.08 | 20.02 19.61 | 19.96 19.66 | 9.50 9.30 | 9.53 9.25 | 1.14 0.89 | 19.94 18.92 | 5.33 4.32 | 1.70 1.45 | 20.70 20.45 | 9.91 9.65 | 0.25 |
| inches | 0.186 0.135 | 0.505 0.495 | 0.006 0.003 | 0.788 0.772 | 0.786 0.774 | 0.374 0.366 | 0.375 0.364 | 0.045 0.035 | 0.785 0.745 | 0.210 0.170 | 0.067 0.057 | 0.815 0.805 | 0.390 0.380 | 0.010 |

| OUTLINE VERSION | REFERENCES | | | | EUROPEAN PROJECTION | ISSUE DATE |
|-----------------|------------|-------|-------|--|---------------------|------------------------|
| | IEC | JEDEC | JEITA | | | |
| SOT502B | | | | | | -03-01-10- 07-05-09 |

Fig 12. Package outline SOT502B

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 |
| LDMOS | Laterally Diffused Metal-Oxide Semiconductor |
| LDMOST | Laterally Diffused Metal-Oxide Semiconductor Transistor |
| 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 |
|-----------------------------|--------------|------------------------|---|---------------------------|
| BLF6G38-50_BLF6G38LS-50 v.2 | 20100601 | Product data sheet | - | BLF6G38-50_BLF6G38LS-50_1 |
| Modifications: | | | <ul style="list-style-type: none"> • Data sheet status changed from preliminary to product. • Section 12 "Legal information" updated. | |
| BLF6G38-50_BLF6G38LS-50_1 | 20080212 | Preliminary 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.nxp.com>.

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14. Contents

| | | |
|-----------|--|-----------|
| 1 | Product profile | 1 |
| 1.1 | General description | 1 |
| 1.2 | Features and benefits | 1 |
| 1.3 | Applications | 2 |
| 2 | Pinning information | 2 |
| 3 | Ordering information | 2 |
| 4 | Limiting values | 2 |
| 5 | Thermal characteristics | 3 |
| 6 | Characteristics | 3 |
| 7 | Application information | 3 |
| 7.1 | Ruggedness in class-AB operation | 3 |
| 7.2 | NXP WiMAX signal | 4 |
| 7.2.1 | WiMAX signal description | 4 |
| 7.2.2 | Graphs | 4 |
| 7.3 | Single carrier N-CDMA broadband performance at 9 W average | 5 |
| 7.3.1 | Graphs | 5 |
| 8 | Test information | 7 |
| 9 | Package outline | 8 |
| 10 | Abbreviations | 10 |
| 11 | Revision history | 10 |
| 12 | Legal information | 11 |
| 12.1 | Data sheet status | 11 |
| 12.2 | Definitions | 11 |
| 12.3 | Disclaimers | 11 |
| 12.4 | Trademarks | 12 |
| 13 | Contact information | 12 |
| 14 | Contents | 13 |

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