

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

**Part Number:** BLA9H0912L-700GU  
**Manufacturer:** Ampleon USA Inc.  
**Package:** Please confirm with sales  
**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/ampleon-usa-inc/bla9h0912l-700gu.html>

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**Note:**

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

# BLA9H0912L(S)-700; BLA9H0912L(S)-700G

Power LDMOS transistor

Rev. 1 — 24 May 2019

AMPLEON

Product data sheet

## 1. Product profile

### 1.1 General description

700 W LDMOS power transistor for avionics applications in the frequency range from 960 MHz to 1215 MHz.

**Table 1. Typical information**

Typical RF performance at  $T_{case} = 25\text{ }^{\circ}\text{C}$ ;  $t_p = 50\text{ }\mu\text{s}$ ;  $\delta = 2\%$ ;  $I_{DQ} = 100\text{ mA}$ ; in a class-AB demo circuit.

| Test signal | f     | V <sub>DS</sub> | P <sub>L</sub> | G <sub>p</sub> | $\eta_D$ |
|-------------|-------|-----------------|----------------|----------------|----------|
|             | (MHz) | (V)             | (W)            | (dB)           | (%)      |
| pulsed RF   | 1030  | 50              | 700            | 20             | 62       |

### 1.2 Features and benefits

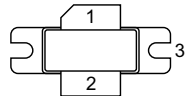
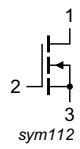
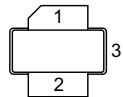
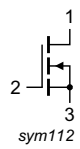
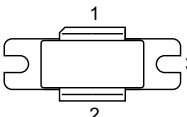
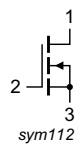
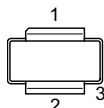
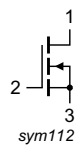
- High efficiency
- Excellent ruggedness
- Designed for avionics band operation
- Excellent thermal stability
- Easy power control
- Integrated dual sided ESD protection enables excellent off-state isolation
- High flexibility with respect to pulse formats
- Internally matched for ease of use
- For RoHS compliance see the product details on the Ampleon website

### 1.3 Applications

- Avionics transmitter applications in the frequency range from 960 MHz to 1215 MHz

## 2. Pinning information

Table 2. Pinning

| Pin                        | Description           | Simplified outline                                                                    | Graphic symbol                                                                        |
|----------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| BLA9H0912L-700 (SOT502A)   |                       |                                                                                       |                                                                                       |
| 1                          | drain                 |    |    |
| 2                          | gate                  |                                                                                       |                                                                                       |
| 3                          | source <sup>[1]</sup> |                                                                                       |                                                                                       |
| BLA9H0912LS-700 (SOT502B)  |                       |                                                                                       |                                                                                       |
| 1                          | drain                 |    |    |
| 2                          | gate                  |                                                                                       |                                                                                       |
| 3                          | source <sup>[1]</sup> |                                                                                       |                                                                                       |
| BLA9H0912L-700G (SOT502F)  |                       |                                                                                       |                                                                                       |
| 1                          | drain                 |   |   |
| 2                          | gate                  |                                                                                       |                                                                                       |
| 3                          | source <sup>[1]</sup> |                                                                                       |                                                                                       |
| BLA9H0912LS-700G (SOT502E) |                       |                                                                                       |                                                                                       |
| 1                          | drain                 |  |  |
| 2                          | gate                  |                                                                                       |                                                                                       |
| 3                          | source <sup>[1]</sup> |                                                                                       |                                                                                       |

[1] Connected to flange.

## 3. Ordering information

Table 3. Ordering information

| Type number      | Package |                                                          |         |
|------------------|---------|----------------------------------------------------------|---------|
|                  | Name    | Description                                              | Version |
| BLA9H0912L-700   | -       | flanged ceramic package; 2 mounting holes; 2 leads       | SOT502A |
| BLA9H0912LS-700  | -       | earless flanged ceramic package; 2 leads                 | SOT502B |
| BLA9H0912L-700G  | -       | eared flanged ceramic package; 2 leads; 2 mounting holes | SOT502F |
| BLA9H0912LS-700G | -       | earless flanged ceramic package; 2 leads                 | SOT502E |

## 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 |            | -   | 106  | V    |
| $V_{GS}$  | gate-source voltage  |            | -6  | +11  | 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, for details refer to the online MTF calculator.

## 5. Thermal characteristics

**Table 5. Thermal characteristics**

| Symbol        | Parameter                                         | Conditions                                    | Typ   | Unit |
|---------------|---------------------------------------------------|-----------------------------------------------|-------|------|
| $Z_{th(j-c)}$ | transient thermal impedance from junction to case | $T_{case} = 85\text{ °C}; P_L = 700\text{ W}$ |       |      |
|               |                                                   | $t_p = 32\text{ }\mu\text{s}; \delta = 2\%$   | 0.055 | K/W  |
|               |                                                   | $t_p = 10\text{ }\mu\text{s}; \delta = 10\%$  | 0.068 | K/W  |
|               |                                                   | $t_p = 64\text{ }\mu\text{s}; \delta = 1\%$   | 0.076 | K/W  |
|               |                                                   | $t_p = 2.4\text{ ms}; \delta = 6.4\%$         | 0.24  | 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   | $V_{GS} = 0\text{ V}; I_D = 4\text{ mA}$                         | 106 | -     | -   | V             |
| $V_{GS(th)}$  | gate-source threshold voltage    | $V_{DS} = 10\text{ V}; I_D = 400\text{ mA}$                      | 1.5 | 2.0   | 2.5 | 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            | $V_{GS} = V_{GS(th)} + 3.75\text{ V};$<br>$V_{DS} = 10\text{ V}$ | -   | 60    | -   | A             |
| $I_{GSS}$     | gate leakage current             | $V_{GS} = 11\text{ V}; V_{DS} = 0\text{ V}$                      | -   | -     | 280 | nA            |
| $g_{fs}$      | forward transconductance         | $V_{DS} = 10\text{ V}; I_D = 400\text{ mA}$                      | -   | 3.7   | -   | S             |
| $R_{DS(on)}$  | drain-source on-state resistance | $V_{GS} = V_{GS(th)} + 3.75\text{ V};$<br>$I_D = 14\text{ A}$    | -   | 0.060 | -   | $\Omega$      |

**Table 7. RF characteristics**

Test signal: pulsed RF;  $f = 1030$  MHz;  $t_p = 50$   $\mu$ s;  $\delta = 2$  %; RF performance at  $V_{DS} = 50$  V;  
 $I_{DQ} = 100$  mA;  $T_{case} = 25$  °C; unless otherwise specified, in a class-AB production circuit.

| Symbol             | Parameter                             | Conditions    | Min | Typ | Max | Unit |
|--------------------|---------------------------------------|---------------|-----|-----|-----|------|
| $G_p$              | power gain                            | $P_L = 700$ W | 19  | 20  | -   | dB   |
| $\eta_D$           | drain efficiency                      | $P_L = 700$ W | 59  | 62  | -   | %    |
| $RL_{in}$          | input return loss                     | $P_L = 700$ W | -   | -15 | -   | dB   |
| $P_{droop(pulse)}$ | pulse droop power                     | $P_L = 700$ W | -   | 0.2 | 0.5 | dB   |
| $P_{L(2dB)}$       | output power at 2 dB gain compression |               | -   | 725 | -   | W    |

## 7. Test information

### 7.1 Ruggedness in class-AB operation

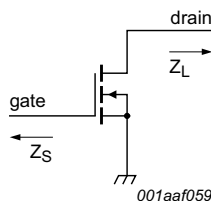
The BLA9H0912L-700, BLA9H0912LS-700, BLA9H0912L-700G and BLA9H0912LS-700G are capable of withstanding a load mismatch corresponding to  $VSWR = 20 : 1$  through all phases under the following conditions:  $V_{DS} = 50$  V;  $I_{DQ} = 100$  mA;  $P_L = 700$  W;  $t_p = 50$   $\mu$ s;  $\delta = 2$  %.

### 7.2 Impedance information

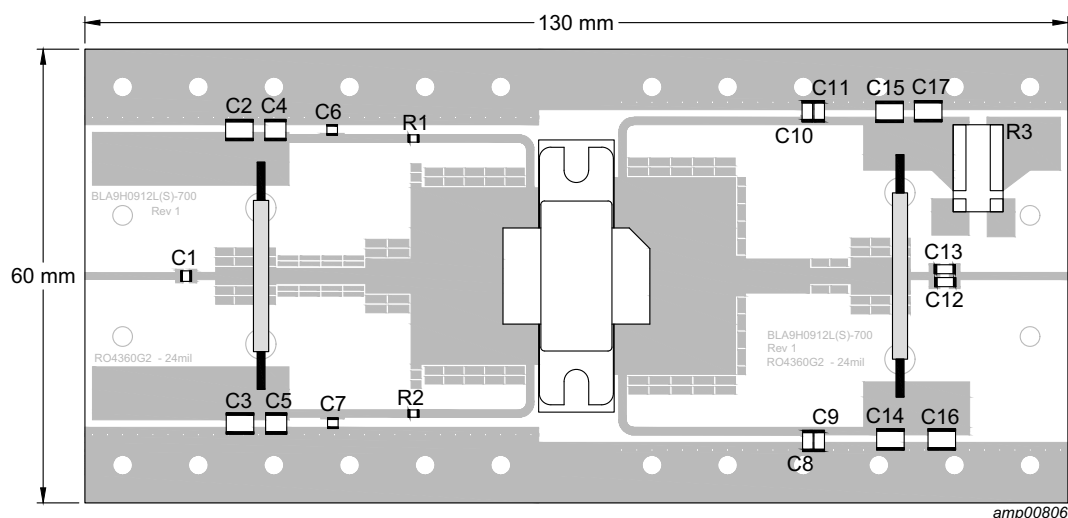
**Table 8. Typical impedance**

Typical values unless otherwise specified.

| f     | $Z_S$            | $Z_L$            |
|-------|------------------|------------------|
| (MHz) | ( $\Omega$ )     | ( $\Omega$ )     |
| 950   | $0.717 - j1.793$ | $0.965 - j1.305$ |
| 1000  | $0.953 - j1.886$ | $1.049 - j1.561$ |
| 1050  | $1.091 - j1.910$ | $1.032 - j1.780$ |
| 1100  | $1.353 - j0.443$ | $1.291 - j1.952$ |
| 1150  | $1.962 - j1.061$ | $1.474 - j2.081$ |
| 1200  | $0.837 - j0.936$ | $1.514 - j2.413$ |

**Fig 1. Definition of transistor impedance**

### 7.3 Test circuit



Printed-Circuit Board (PCB): Rogers 4360G2; thickness = 0.61 mm;  $\epsilon_r = 6.15$ ; thickness copper plating = 35  $\mu\text{m}$ .

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

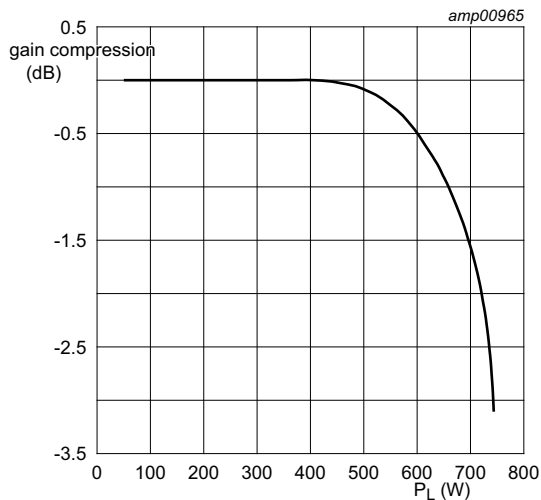
**Fig 2. Component layout for class-AB production test circuit**

**Table 9. Demo test circuit list of components**

See [Figure 2](#) for component layout.

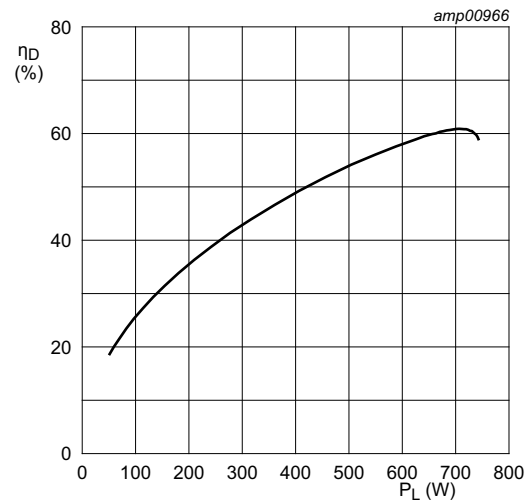
| Component                  | Description                       | Value                     | Remarks                   |
|----------------------------|-----------------------------------|---------------------------|---------------------------|
| C1                         | multilayer ceramic chip capacitor | 62 pF                     | ATC 100A                  |
| C2, C3, C16, C17           | multilayer ceramic chip capacitor | 4.7 $\mu\text{F}$ , 100 V | GMR42 258K7S 475K 100 H53 |
| C4, C5, C14, C15           | multilayer ceramic chip capacitor | 1 nF                      | ATC 100B                  |
| C6, C7                     | multilayer ceramic chip capacitor | 200 pF                    | ATC 800B                  |
| C8, C9, C10, C11, C12, C13 | multilayer ceramic chip capacitor | 68 pF                     | ATC 800B                  |
| R1, R2                     | resistor                          | 5.1 k $\Omega$            | SMD 0603                  |
| R3                         | resistor                          | 10 m $\Omega$             | FC4L110R010FER            |

## 7.4 Graphical data



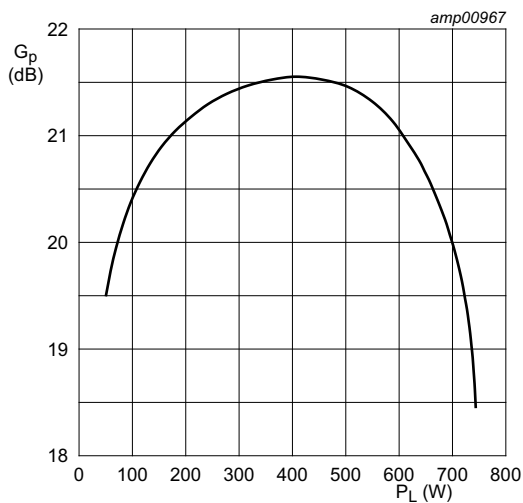
$V_{DS} = 50$  V;  $I_{DQ} = 100$  mA;  $f = 1030$  MHz;  $t_p = 50$   $\mu$ s;  $\delta = 2$  %.

**Fig 3. Gain compression as a function of output power; typical values**



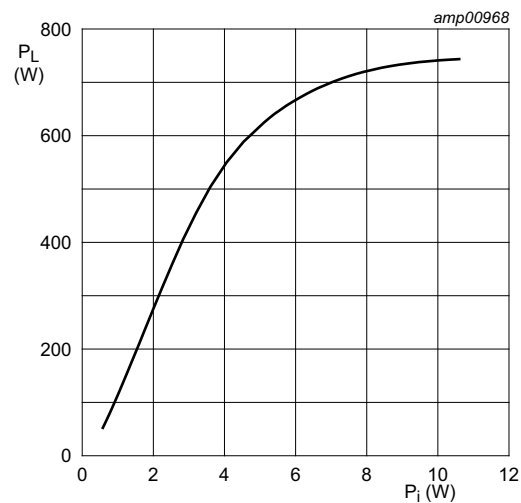
$V_{DS} = 50$  V;  $I_{DQ} = 100$  mA;  $f = 1030$  MHz;  $t_p = 50$   $\mu$ s;  $\delta = 2$  %.

**Fig 4. Drain efficiency as a function of output power; typical values**



$V_{DS} = 50$  V;  $I_{DQ} = 100$  mA;  $f = 1030$  MHz;  $t_p = 50$   $\mu$ s;  $\delta = 2$  %.

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



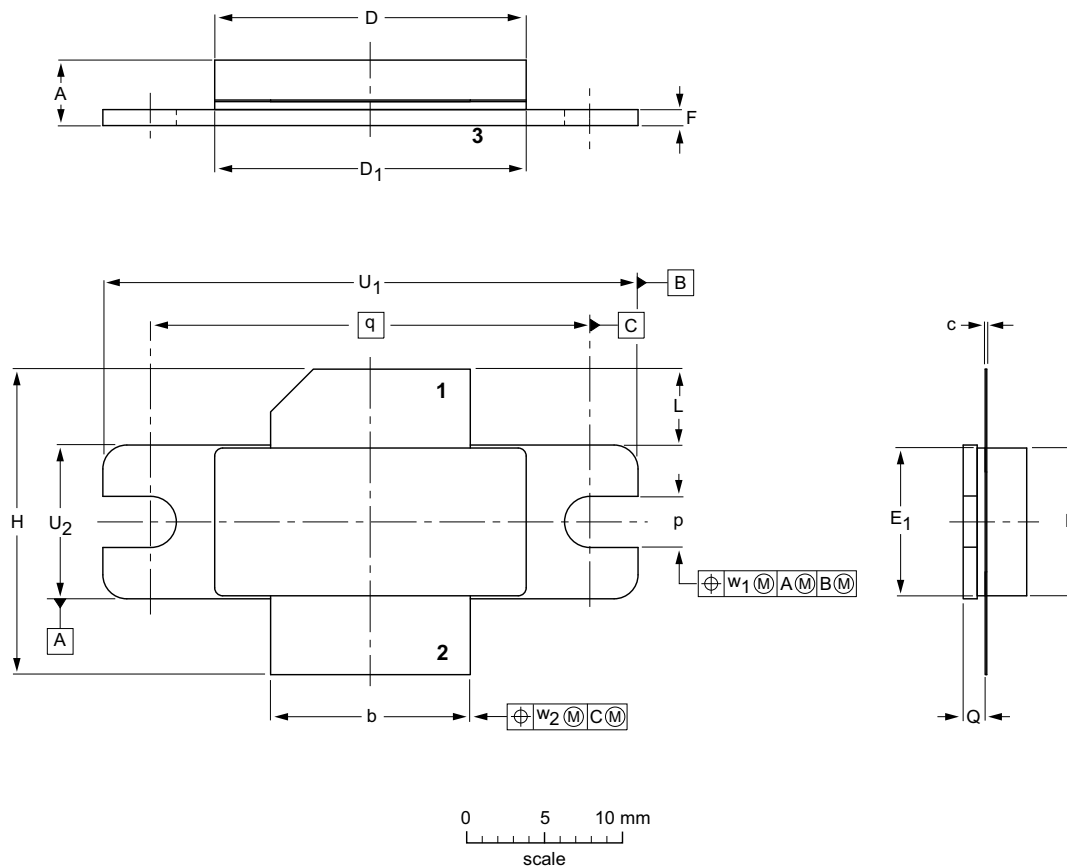
$V_{DS} = 50$  V;  $I_{DQ} = 100$  mA;  $f = 1030$  MHz;  $t_p = 50$   $\mu$ s;  $\delta = 2$  %.

**Fig 6. Output power as a function of input power; typical values**

## 8. Package outline

Flanged ceramic package; 2 mounting holes; 2 leads

SOT502A



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

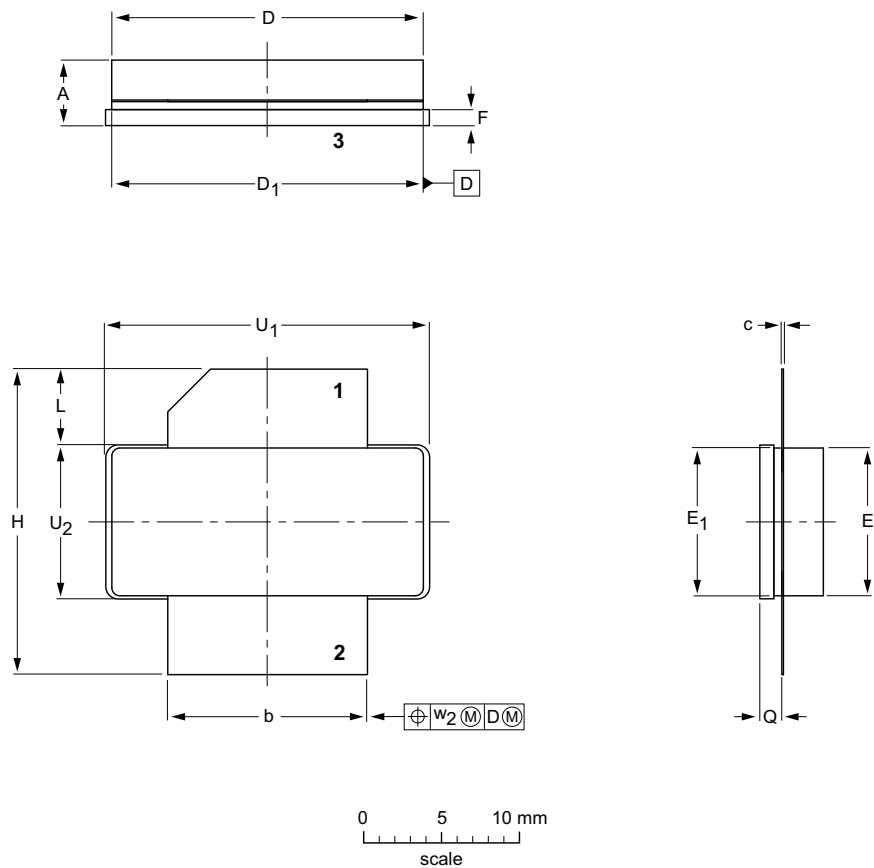
| UNIT   | A              | b              | c              | D              | D <sub>1</sub> | E              | E <sub>1</sub> | F              | H              | L              | p              | Q              | q     | U <sub>1</sub> | U <sub>2</sub> | w <sub>1</sub> | w <sub>2</sub> |
|--------|----------------|----------------|----------------|------------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

| OUTLINE<br>VERSION | REFERENCES |       |       |  | EUROPEAN<br>PROJECTION                                                                | ISSUE DATE           |
|--------------------|------------|-------|-------|--|---------------------------------------------------------------------------------------|----------------------|
|                    | IEC        | JEDEC | JEITA |  |                                                                                       |                      |
| SOT502A            |            |       |       |  |  | 03-01-10<br>12-05-02 |

Fig 7. Package outline SOT502A

Earless flanged ceramic package; 2 leads

SOT502B



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

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

| OUTLINE<br>VERSION | REFERENCES |       |       |  | EUROPEAN<br>PROJECTION | ISSUE DATE           |
|--------------------|------------|-------|-------|--|------------------------|----------------------|
|                    | IEC        | JEDEC | JEITA |  |                        |                      |
| SOT502B            |            |       |       |  |                        | 07-05-09<br>12-05-02 |

Fig 8. Package outline SOT502B

Earless flanged ceramic package; 2 leads

SOT502E

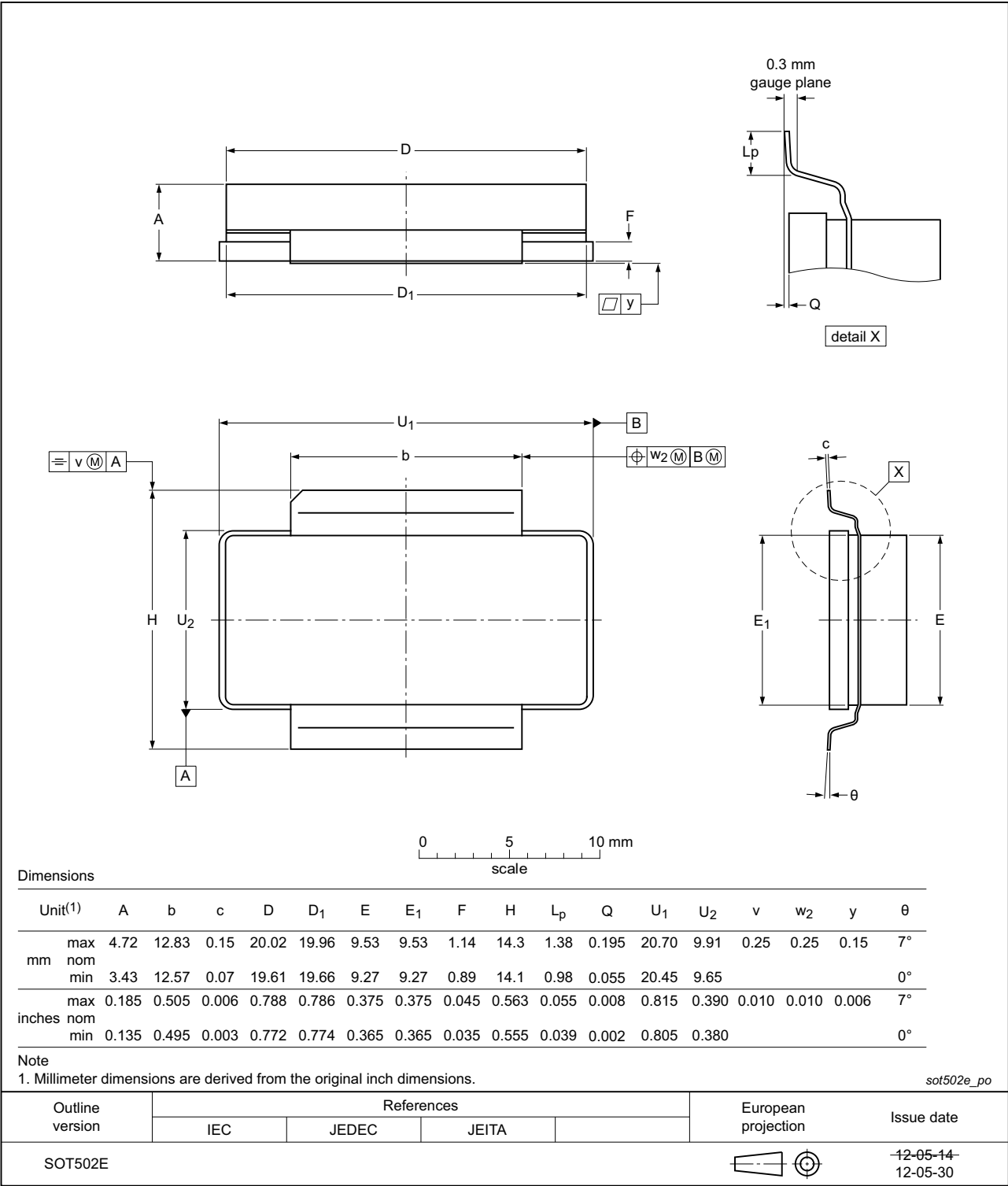


Fig 9. Package outline SOT502E

Eared flanged ceramic package; 2 leads; 2 mounting holes

SOT502F

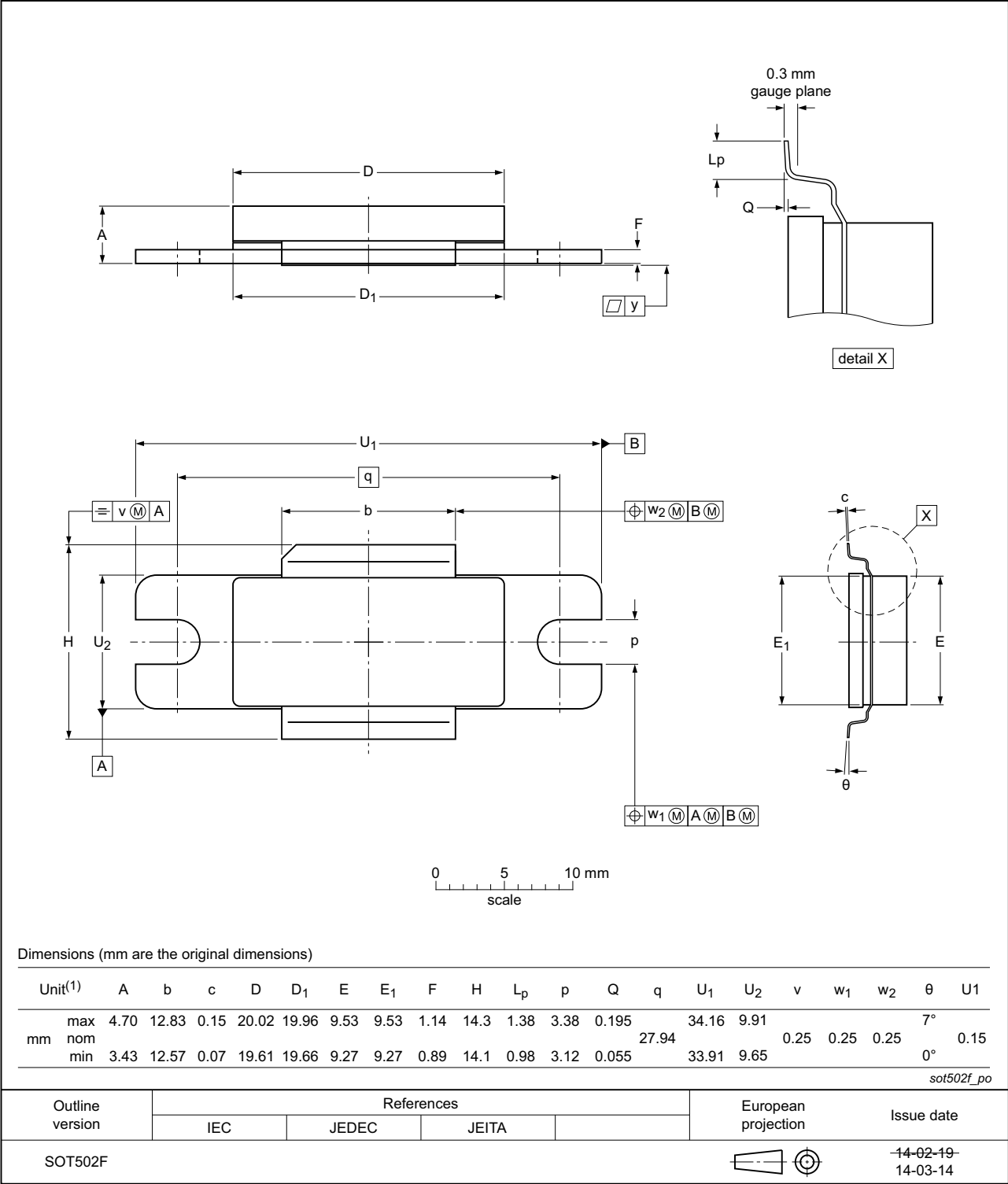


Fig 10. Package outline SOT502F

## 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.

Table 10. ESD sensitivity

| ESD model                                                                | Class                   |
|--------------------------------------------------------------------------|-------------------------|
| Charged Device Model (CDM); According to ANSI/ESDA/JEDEC standard JS-002 | C2A <a href="#">[1]</a> |
| Human Body Model (HBM); According to ANSI/ESDA/JEDEC standard JS-001     | 2 <a href="#">[2]</a>   |

[1] CDM classification C2A is granted to any part that passes after exposure to an ESD pulse of 500 V.

[2] HBM classification 2 is granted to any part that passes after exposure to an ESD pulse of 2000 V.

## 10. Abbreviations

Table 11. Abbreviations

| Acronym | Description                                  |
|---------|----------------------------------------------|
| ESD     | ElectroStatic Discharge                      |
| LDMOS   | Laterally Diffused Metal-Oxide Semiconductor |
| MTF     | Median Time to Failure                       |
| RoHS    | Restriction of Hazardous Substances          |
| SMD     | Surface Mounted Device                       |
| VSWR    | Voltage Standing-Wave Ratio                  |

## 11. Revision history

Table 12. Revision history

| Document ID                              | Release date | Data sheet status  | Change notice | Supersedes |
|------------------------------------------|--------------|--------------------|---------------|------------|
| BLA9H0912L-700_LS-700_L-700G_LS-700G v.1 | 20190524     | 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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## 13. Contact information

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Date of release: 24 May 2019

Document identifier: BLA9H0912L-700\_LS-700\_L-700G\_LS-700G