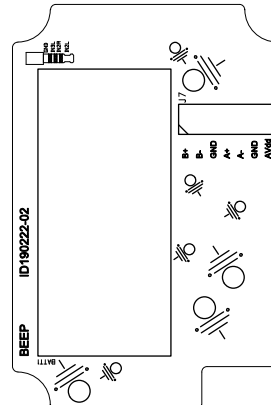


| BLAD SHEET | OMSCHRIJVING DESCRIPTION   | FORMAAT FORMAT |
|------------|----------------------------|----------------|
| 1          | PAGE INDEX                 | A3             |
| 2          | SILKSCREEN TOP             | A3             |
| 3          | SILKSCREEN BOTTOM          | A3             |
| 4          | COPPER TOP                 | A3             |
| 5          | COPPER BOTTOM              | A3             |
| 6          | INNER LAYER 1              | A3             |
| 7          | INNER LAYER 2              | A3             |
| 8          | ANTI SOLDER MASK TOP       | A3             |
| 9          | ANTI SOLDER MASK BOTTOM    | A3             |
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|------------------------------|--|--------------------------------|---------------------|------------------|-------------|
| Omschrijving/ Description    |  | Gecontroleerd/ Checked         | Datum/ Date         | Geplaatst/ Drawn | Datum/ Date |
| Page index PCB documentation |  | A. Verhoef                     | 10102019            | G. den Hartog    | 10102019    |
| Project                      |  | Tekeningnummer/ Drawing Number |                     | A3               |             |
| BEEP PCB2                    |  | ID190222                       | - 02                | - 1              |             |
|                              |  | Artikelenummer<br>Part Number  | Uitgave<br>Revision | Blad<br>Sheet    |             |
|                              |  |                                |                     | IDEEETRON        |             |

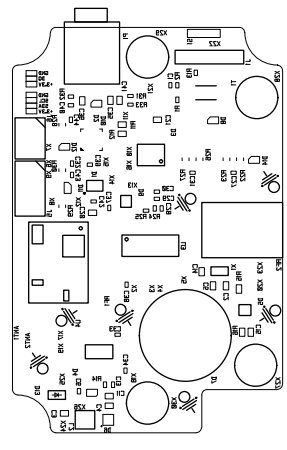


|                           |  |                                |             |                 |             |
|---------------------------|--|--------------------------------|-------------|-----------------|-------------|
| Omschrijving/ Description |  | Gecontroleerd/ Checked         | Datum/ Date | Getekend/ Drawn | Datum/ Date |
| Silkscreen top            |  | A. Verhoef                     | 10102019    | G. den Hartog   | 10102019    |
| Project                   |  | Tekeningnummer/ Drawing Number |             | A3              |             |
| BEEP PCB2                 |  | ID190222 - 02 - 2              |             | Uitgave         | Blad        |
|                           |  | Part Number                    |             | Revision        | Sheet       |
|                           |  |                                |             |                 |             |

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# MIRROR VIEW

Omschrijving/ Description  
**Silkscreen bottom**

Project  
**BEEP PCB2**

Gecontroleerd/ Checked  
 A. Verhoef

Datum/ Date  
 10102019

Gekleefd/ Drawn  
 G. den Hartog

Datum/ Date  
 10102019

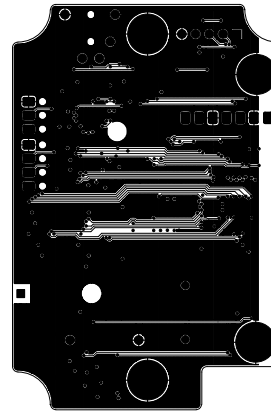
Tekeningnummer/ Drawing Number  
**A3**

Artikelenummer  
 ID190222

Uitgave  
 - 02 - 3

Blad  
 Revision

Sheet  
 IDEETRON



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Omschrijving/ Description  
**Copper top**

Project  
**BEEP PCB2**

Gecontroleerd/ Checked  
A. Verhoef

Datum/ Date  
10102019

Gekleefd/ Drawn  
G. den Hartog

Datum/ Date  
10102019

Tekeningnummer/ Drawing Number  
**ID190222 - 02 - 4**

**A3**

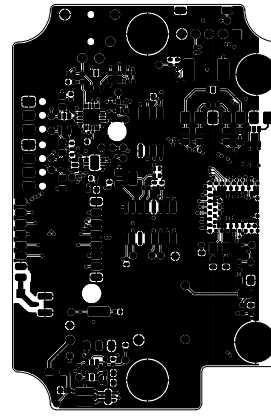
Uitgave  
Revision

Blad  
Sheet

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# MIRROR VIEW

Omschrijving/ Description  
**Copper bottom**

Project  
**BEEP PCB2**

Gecontroleerd/ Checked Datum/ Date  
A. Verhoef 10102019

Gekleefd/ Drawn Datum/ Date  
G. den Hartog 10102019

Tekeningnummer/ Drawing Number  
**A3**

Uitgave Revision  
**ID190222 - 02 - 5**

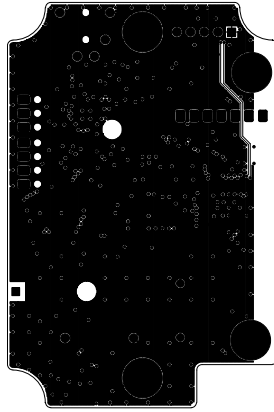
Artikelenummer Part Number  
**IDEEETRON**

Datum/ Date  
10102019

G. den Hartog

Uitgave Revision  
ID190222 - 02 - 5

Artikelenummer Part Number  
IDEEETRON



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Omschrijving/ Description  
**Inner Layer 1**

Project  
**BEEP PCB2**

Gecontroleerd/ Checked  
A. Verhoef

Datum/ Date  
10102019

Gekleefd/ Drawn  
G. den Hartog

Datum/ Date  
10102019

Tekeningnummer/ Drawing Number  
**A3**

Artikelenummer  
ID190222

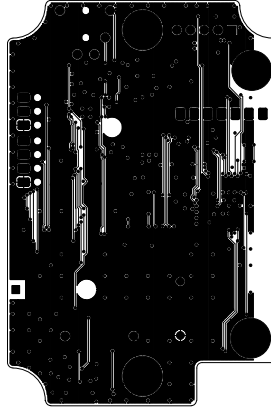
Uitgave  
- 02 -

Blad  
6

Revision  
- 6 -

Sheet  
Blad

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zonder schriftelijke toestemming  
van eigenaren niet geoorloofd.

Omschrijving/ Description  
**Inner Layer 2**

Project  
**BEEP PCB2**

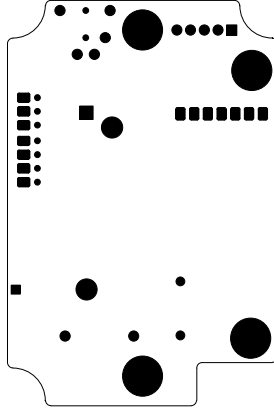
Gecontroleerd/ Checked Datum/ Date  
A. Verhoef 10102019

Gekleefd/ Drawn Datum/ Date  
G. den Hartog 10102019

Tekeningnummer/ Drawing Number  
**A3**

Uitgave/ Revision  
Blad/ Sheet  
**ID190222 - 02 - 7**

Part Number  
**IDEEETRON**



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Omschrijving/ Description

Anti solder mask top

Project

BEEP PCB2

Gecontroleerd/ Checked

A. Verhoef

Datum/ Date

10102019

Gekleefd/ Drawn

G. den Hartog

Tekeningnummer/ Drawing Number

ID190222 - 02 - 8

A3

Uitgave

Revision

Blad

Sheet

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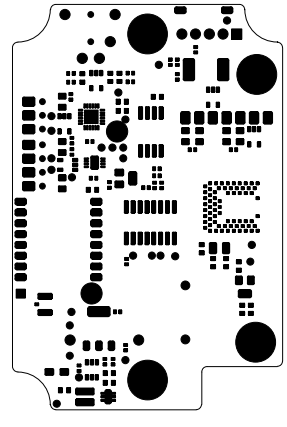
Datum/ Date

10102019



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# MIRROR VIEW

Omschrijving/ Description  
**Anti solder mask bottom**

Project  
**BEEP PCB2**

Gecontroleerd/ Checked Datum/ Date  
A. Verhoef 10102019

Gekleefd/ Drawn Datum/ Date  
G. den Hartog 10102019

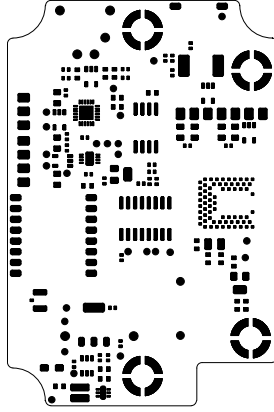
Tekeningnummer/ Drawing Number  
**A3**

Uitgave Revision  
**02 -9**

Artikelenummer Part Number  
**ID190222**

Blad Sheet  
**-9**

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# MIRROR VIEW

Omschrijving/ Description  
**Paste mask bottom**

Project  
**BEEP PCB2**

Gecontroleerd/ Checked  
**A. Verhoef**

Datum/ Date  
**10102019**

Gemaakt/ Drawn  
**G. den Hartog**

Datum/ Date  
**10102019**

Tekeningnummer/ Drawing Number  
**A3**

Artikelenummer  
**ID190222**

Uitgave  
**- 02**

Blad  
**- 10**

Revisie  
**02**

Blad  
**10**

Sheet  
**10**

Part Number

Revision

Sheet

Sheet

Sheet

Sheet

Sheet

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Sheet

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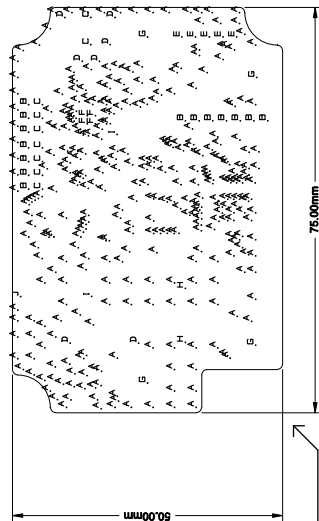
| Drill Table |        |               |              |
|-------------|--------|---------------|--------------|
| Size        | Length | Plate Through | Letter Count |
| 0.200       | 0.000  | YES           | A 341        |
| 0.300       | 0.000  | YES           | F 4          |
| 0.7112      | 0.000  | YES           | J 1          |
| 0.800       | 0.000  | YES           | H 2          |
| 1.000       | 0.000  | YES           | E 5          |
| 1.09982     | 0.000  | NO            | C 9          |
| 1.100       | 0.000  | YES           | D 7          |
| 1.1938      | 0.000  | YES           | B 14         |
| 3.400       | 0.000  | NO            | I 2          |
| 4.400       | 0.000  | NO            | G 4          |

The hole diameters for plated holes are after plating

Tolerances:

Plated holes -0.1 / +0.1mm

Non-plated holes -0.05 / +0.05mm



Reference point  
0/0 [mm]

|                            |  |                                |  |             |  |                 |  |             |  |
|----------------------------|--|--------------------------------|--|-------------|--|-----------------|--|-------------|--|
| Omschrijving/ Description  |  | Gecontroleerd/ Checked         |  | Datum/ Date |  | Gekleefd/ Drawn |  | Datum/ Date |  |
| Mechanical & Drill drawing |  | A. Verhoef                     |  | 10102019    |  | G. den Hartog   |  | 10102019    |  |
| Project                    |  | Tekeningnummer/ Drawing Number |  | A3          |  | Uitgave         |  | Blad        |  |
| BEEP PCB2                  |  | ID190222 - 02 - 11             |  | Uitgave     |  | Revision        |  | Sheet       |  |
|                            |  | Artikelnnummer                 |  | Part Number |  | Revision        |  | Sheet       |  |
|                            |  |                                |  |             |  |                 |  | IDEEETRON   |  |

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# SPECIFICATIONS PRINTED CIRCUIT BOARD

**NUMBER OF LAYERS** 4

**COPPER THICKNESS** All electrical layers: 35µm

**FINISHED BOARD THICKNESS** 1,6 mm +/- 10% after standard finishing/plating (measured without selective plating)

**HOLES** Drilled and plated (non-plated, see tabel)

**FINISH** Leadfree finish

**SOLDERMASK** Green epoxy soldermask Top/Bottom  
Wet film - Thickness min 20µm

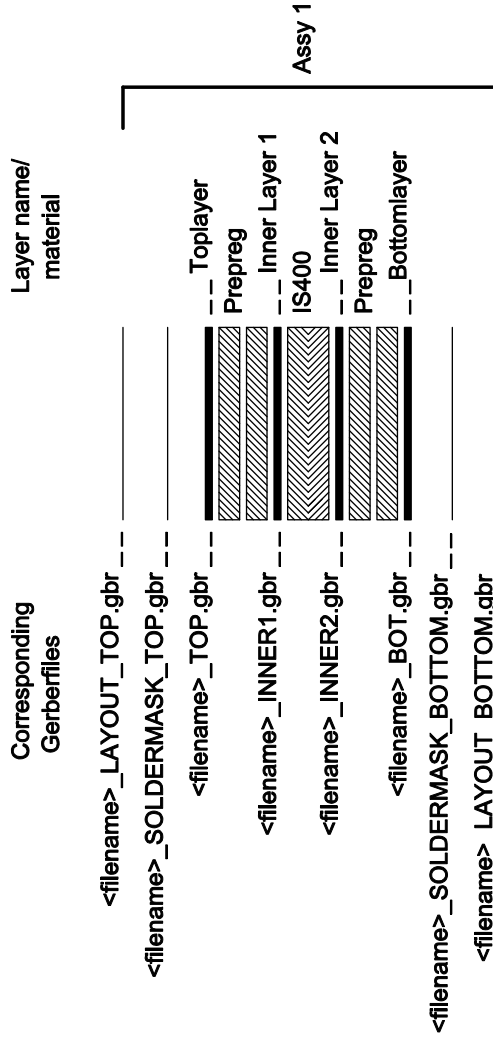
**SELECTIVE PLATING** none

**BASE MATERIAL** IS400

## APPLICABLE STANDARDS

1. IPC-A-600G - "Acceptibility for Printed Circuit Boards" - September 2004
2. IPC-6011 - "Generic Specification for Printed Boards" - July 1996
3. IPC-6012B, Class 3 - "Qualification and Performance for Rigid Printed Boards" - January 2007
4. IPC-4101B, incl. Amendment 1 & 2 - "Specifications for Base Materials for Rigid and Multilayer Printed Boards" - May 2007

## LAYER STACK



**Drillfiles:** <filename>\_DP.gbr  
Assy 1 (plated): <filename>\_DNP.gbr  
Assy 1 (non-plated): <filename>\_SEPL.gbr

File for selective plating (if applicable):

IDEETRON

<filename> = ID190222-02\_xx DATECODE xx\_

|  |  |  |                         |                                  |                         |
|--|--|--|-------------------------|----------------------------------|-------------------------|
| Omschrijving/ Description<br><b>PCB specifications</b> |  | Gecontroleerd/ Checked<br>A. Verhoef         | Datum/ Date<br>10102019 | Geketend/ Drawn<br>G. den Hertog | Datum/ Date<br>10102019 |
| Project<br><b>BEEP PCB2</b>                            |  | Tekeningsnummer/ Drawing Number<br><b>A3</b> |                         | Blad<br>12                       |                         |
|  |  | Uitgave<br>Revision                          |                         | Sheet<br>1                       |                         |
|  |  | ID190222                                     |                         | IDEETRON                         |                         |