

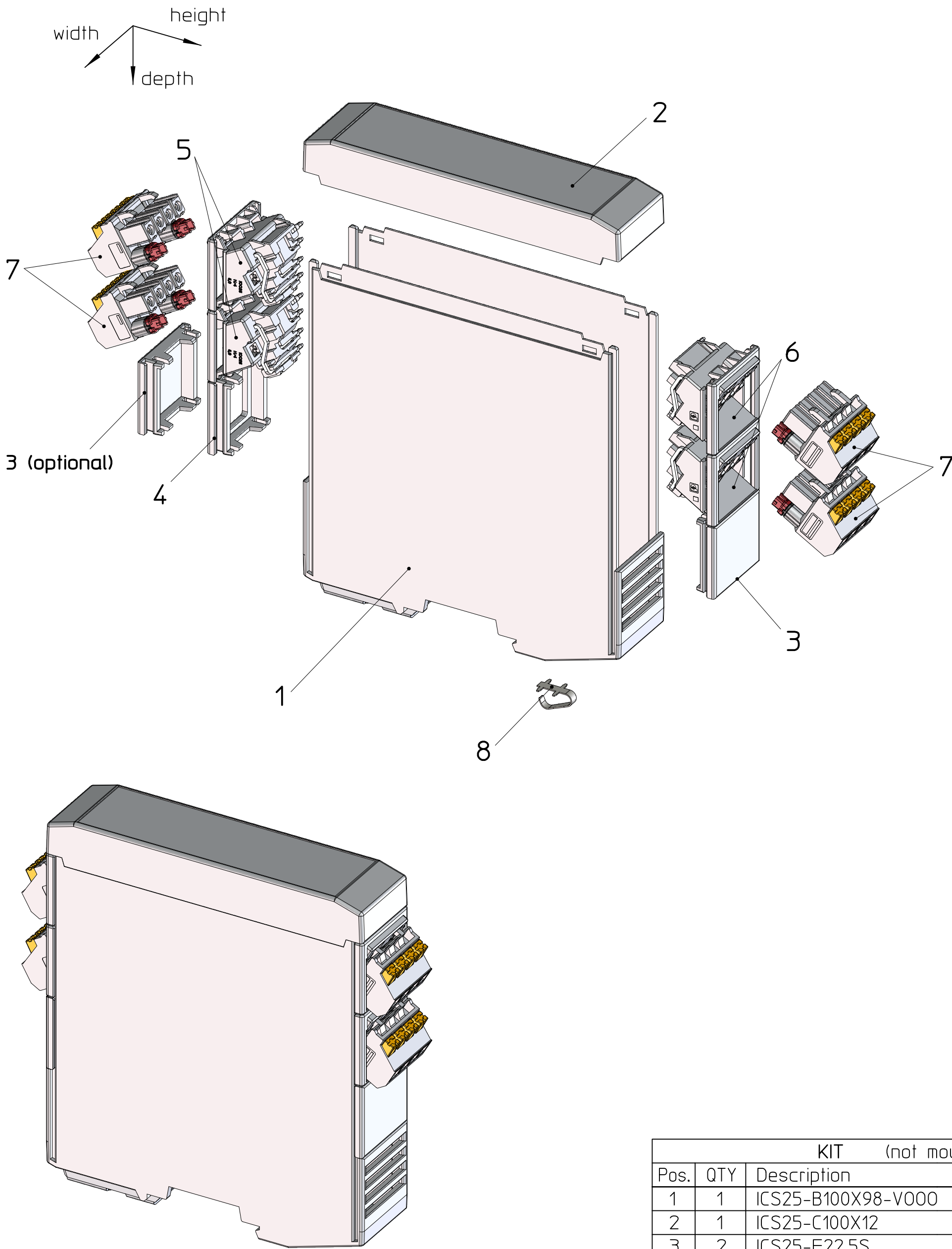
A

B

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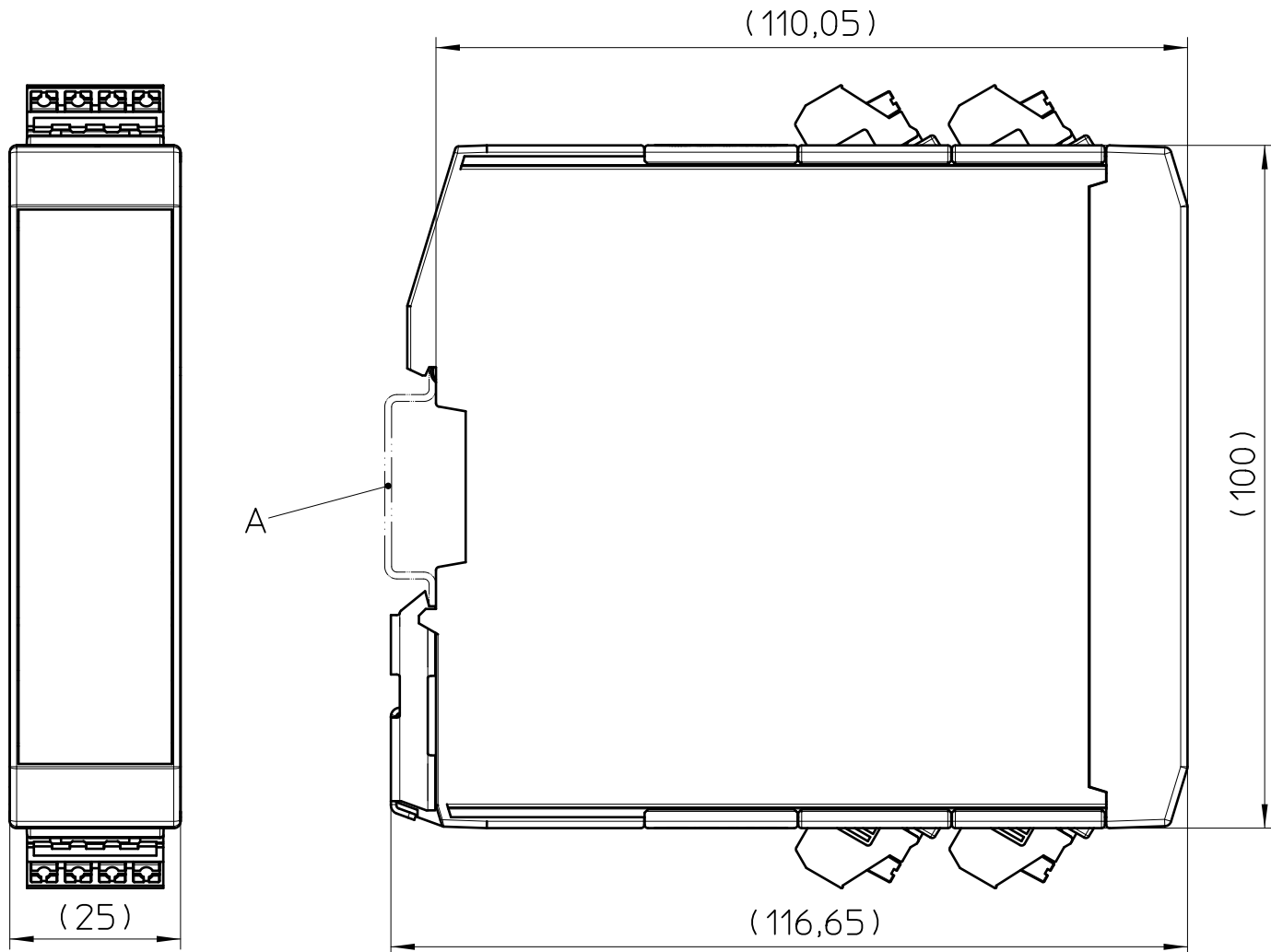
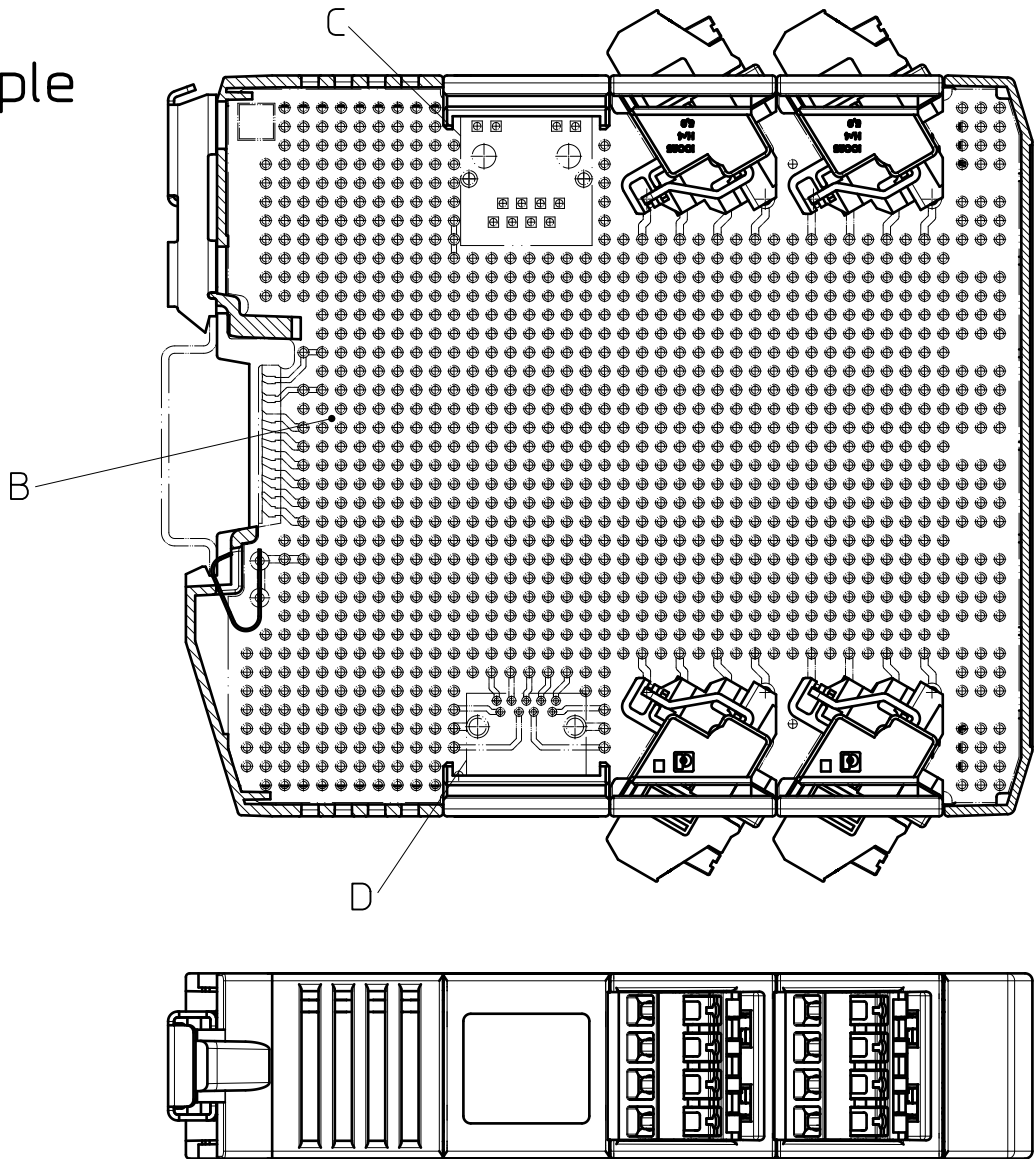
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ICS25-BC100X110-V-DEV-KIT



| KIT (not mounted) |     |                       |
|-------------------|-----|-----------------------|
| Pos.              | QTY | Description           |
| 1                 | 1   | ICS25-B100X98-V000    |
| 2                 | 1   | ICS25-C100X12         |
| 3                 | 2   | ICS25-F22,5S          |
| 4                 | 1   | ICS25-F22,5J          |
| 5                 | 2   | ICC25-H/4L5,0         |
| 6                 | 2   | ICC25-H/4R5,0         |
| 7                 | 4   | ICC25-PPC2,5/4-5,0-AA |
| 8                 | 1   | ICS-FE-CONTACT        |

Assembly example



General Information:

- Simplified representation, exemplary shown in gray.
- Document excluded from change process
- Units are in millimeters [mm] and degrees [°]
- Tolerances apply in a normal climate according to DIN EN ISO 291-23/50-2, PA plastic parts with about 2% (% by weight) moisture content.
- Web: [www.phoenixcontact.com](http://www.phoenixcontact.com)

Additional Information:

A) Mounting rail like EN 60715, TH 35-7,5 or mounting rail similar EN 60715, TH 35-15x1,5

B) PCB, not included in the kit  
(Item: 1054082 ICS-DEV-PCB-01)

C) Area for RJ45 (not included in the kit)

D) Area for USB (not included in the kit)

|                                                                                       |                                                                                       |                                               |                                           |              |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|--------------|
|  | DIN A2                                                                                | document-No. / RI<br>01370880 / 00            | date<br>23.04.2021                        | scale<br>1:1 |
|                                                                                       |  | ident.-No.<br>1291125                         | document-type<br>TECDOC 2D_Productdrawing |              |
| page 1 of 9                                                                           |                                                                                       | description<br>ICS25-BC100X110-V-7035 DEV-KIT |                                           |              |

A

B

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A

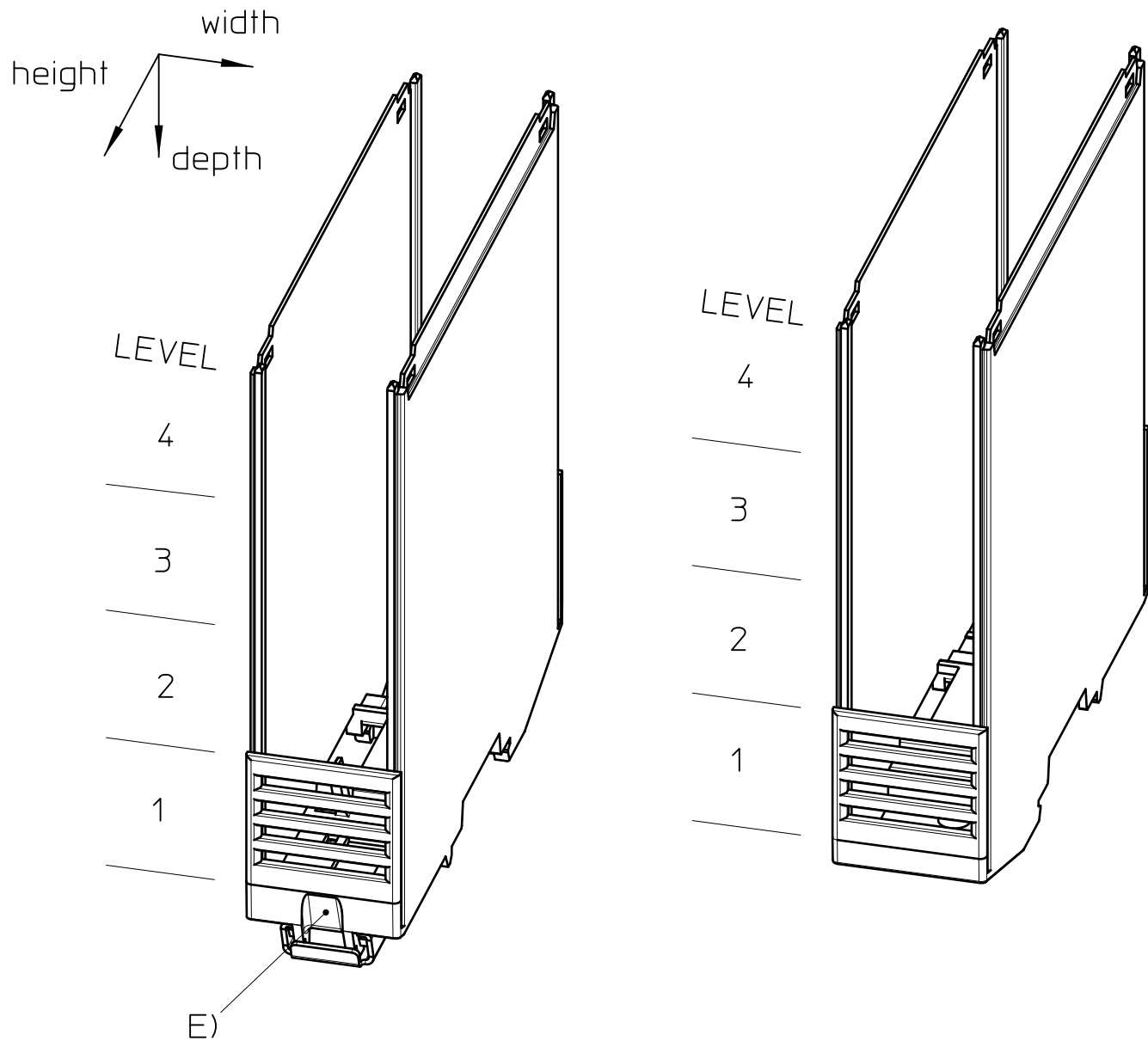
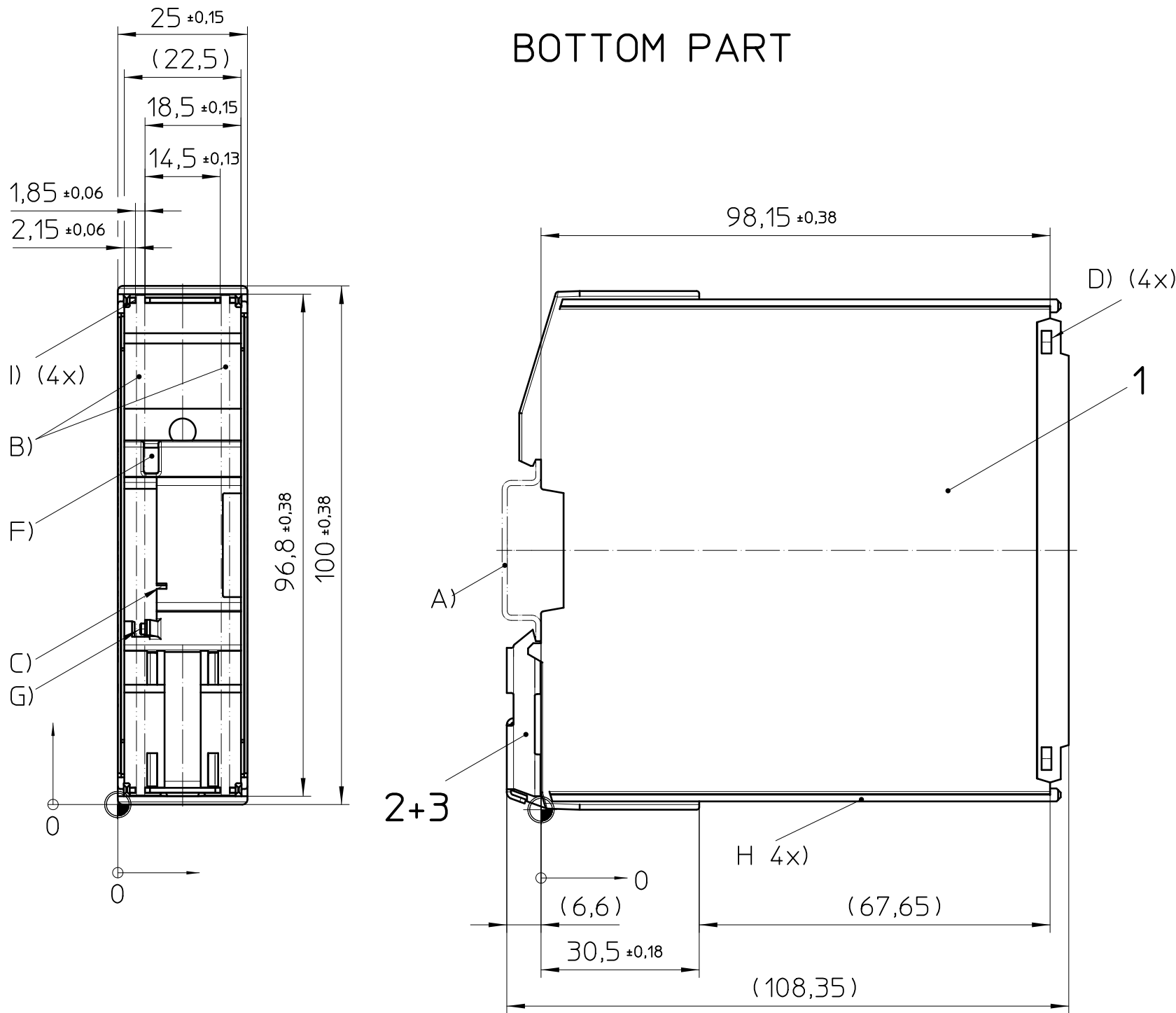
B

C

D

E

F



General Information:

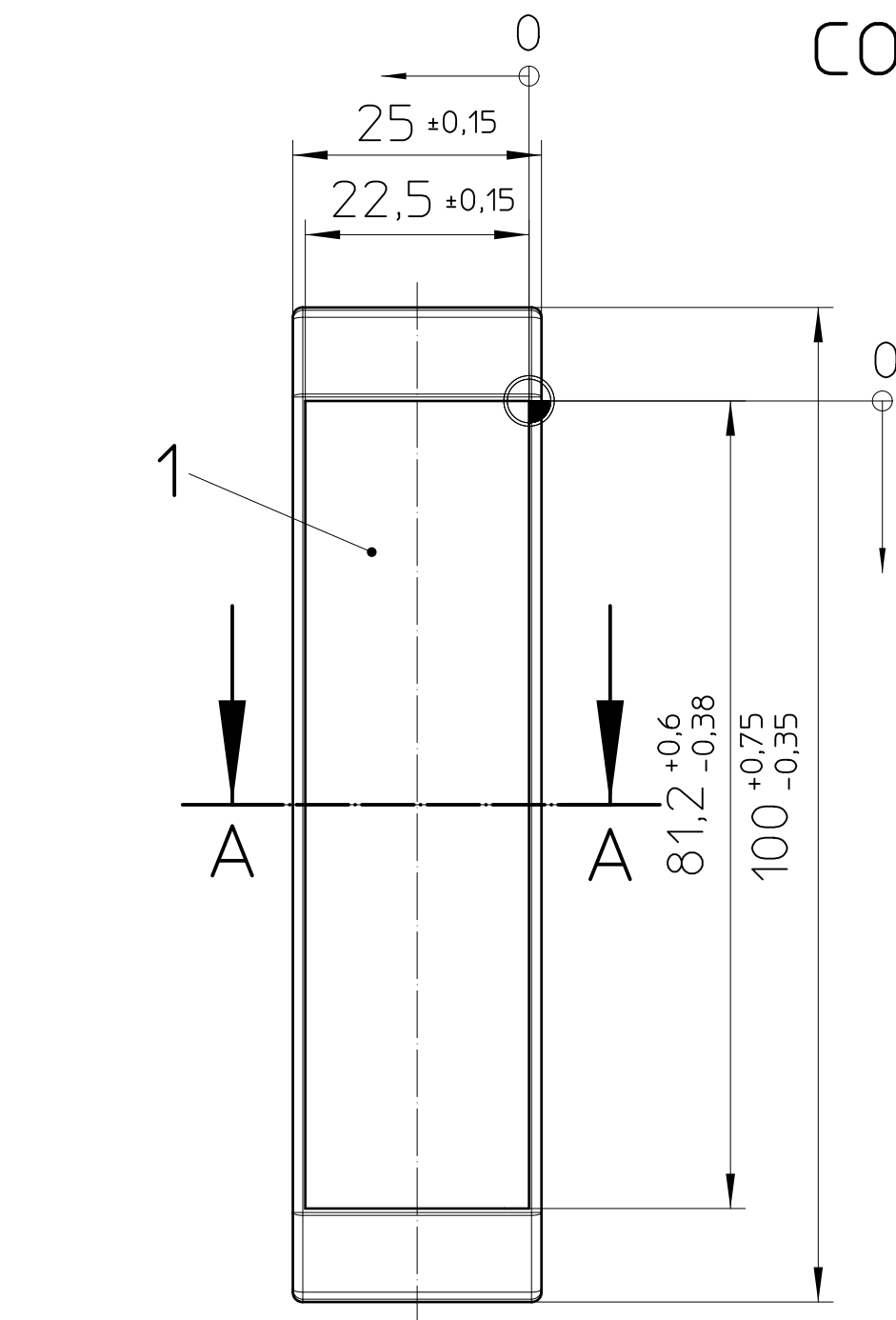
- Simplified representation
- Document excluded from change process
- Units are in millimeters [mm] and degrees [°]
- Tolerances apply in a normal climate according to DIN EN ISO 291-23/50-2, PA plastic parts with about 2% (% by weight) moisture content.
- Workpiece zero point for mechanical processing
- Tolerances for printing DIN ISO 2768-m
- Web: [www.phoenixcontact.com](http://www.phoenixcontact.com) webcode: #1635

Additional Information:

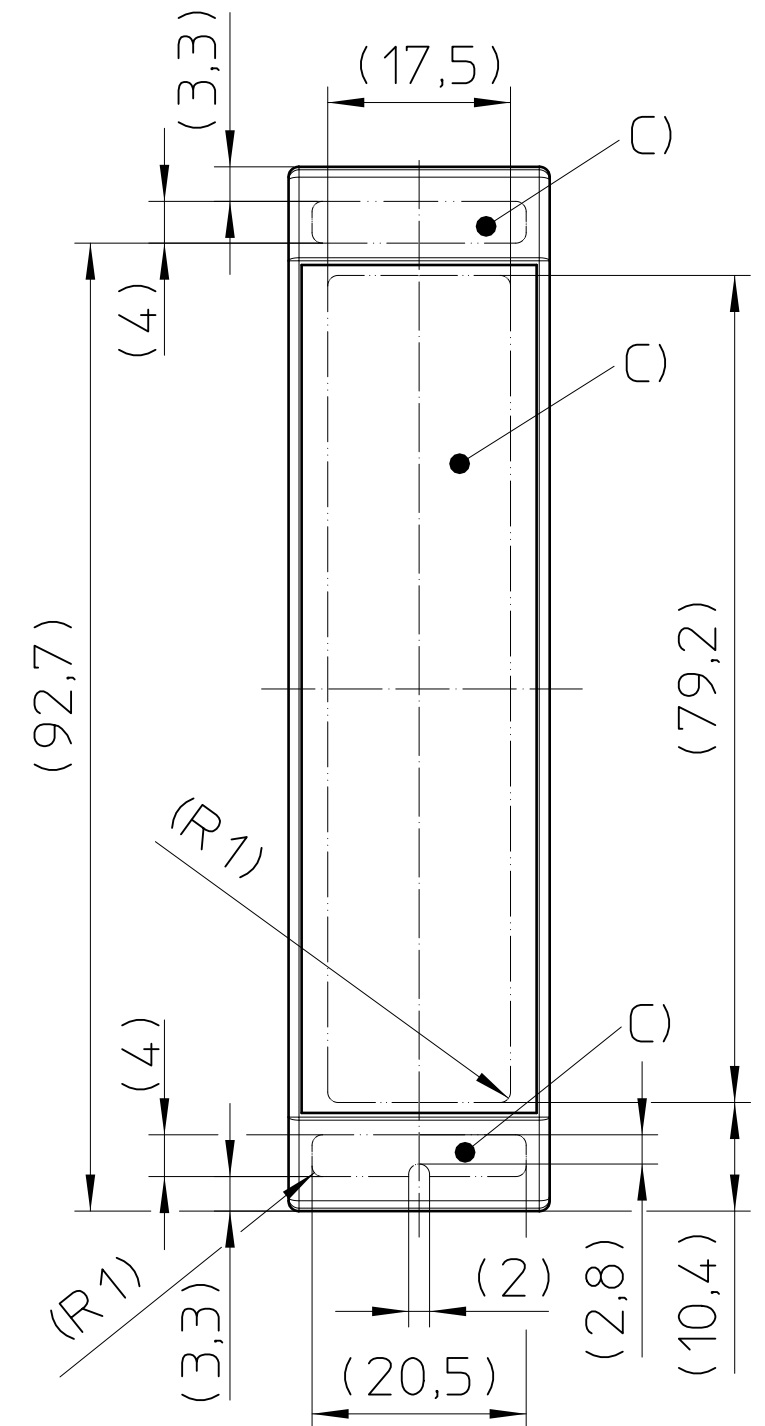
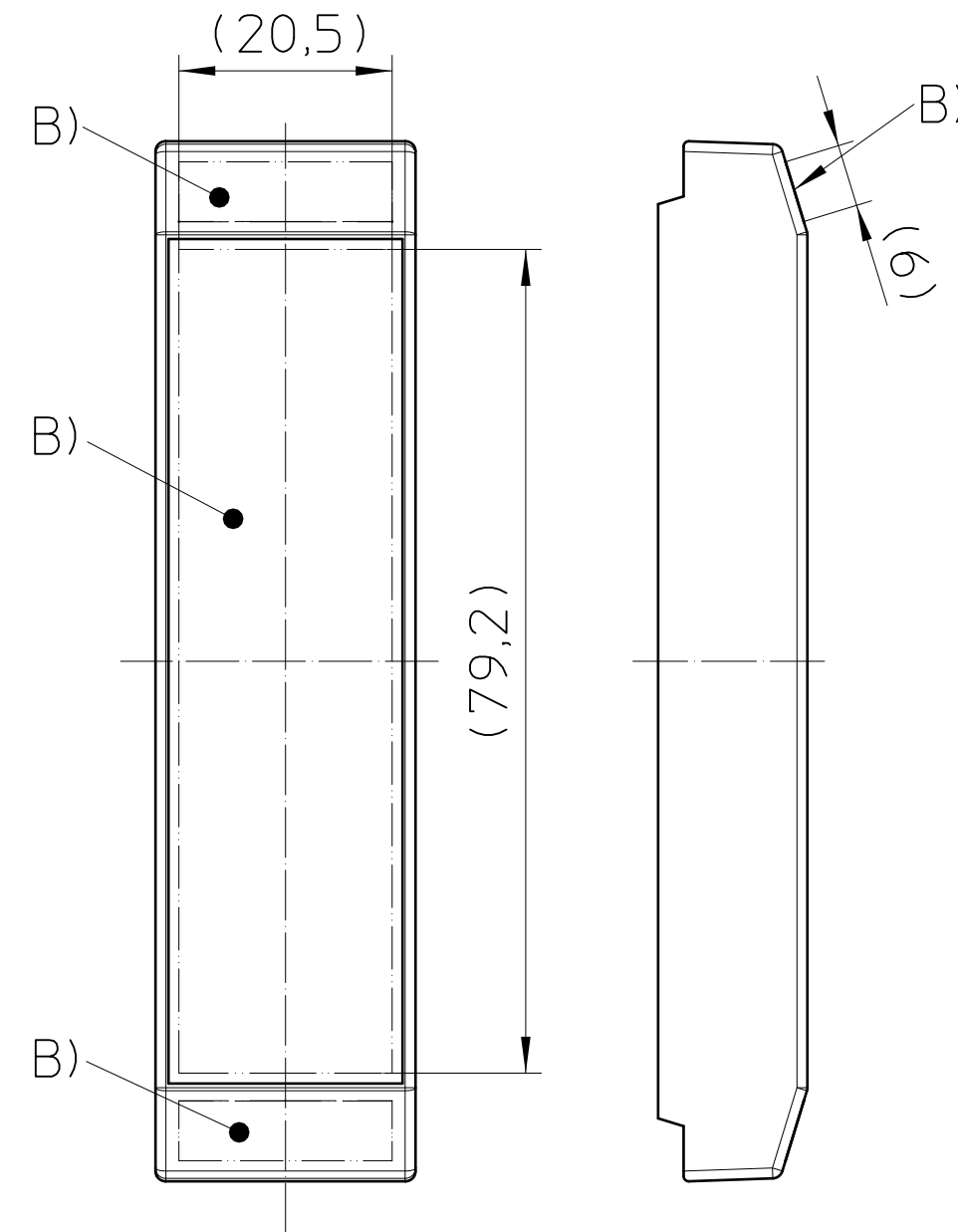
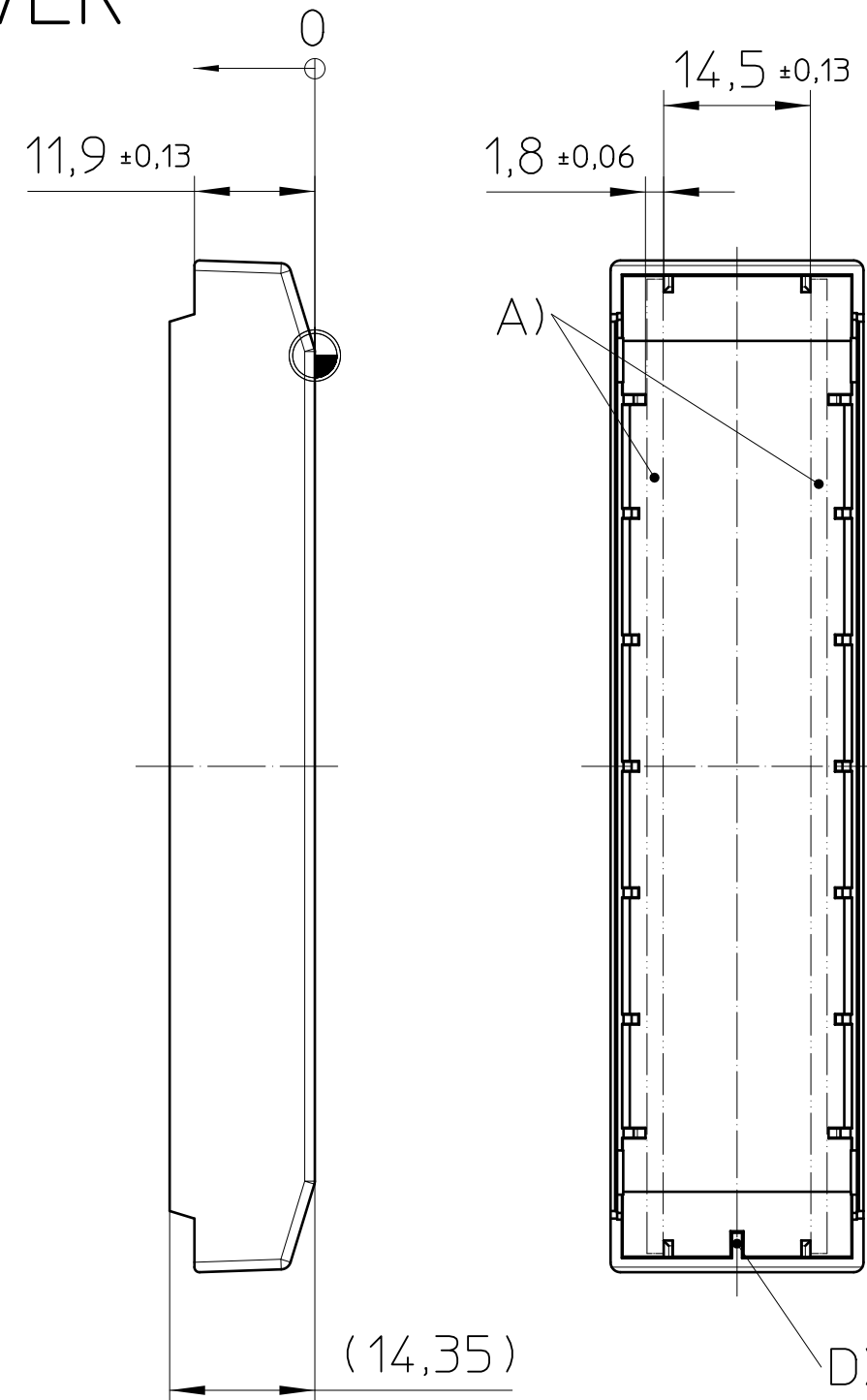
- A) Mounting rail like EN 60715, TH 35-7,5 or mounting rail similar EN 60715, TH 35-15x1,5
- B) PCB t=1,6±0,2
- C) Guidance slot for TBUS8 . . .
- D) Opening for fixing ICS25-C100 . . . or ICS25-TL100 . . .
- E) Notch for locking release, by screw driver
- F) Opening for ICS-FE-CONTACT
- G) Fixing PCB
- H) Guidance for ICS25-F . . . or ICC25 . . .
- I) PCB guidance
- J) Marking area left
- K) Marking area right

| Pos. | QTY | Description | Material |
|------|-----|-------------|----------|
| 1    | 1   | BOTTOM PART | PA       |
| 2    | 1   | FOOT CATCH  | STL      |
| 3    | 1   | SPRING      | STL      |

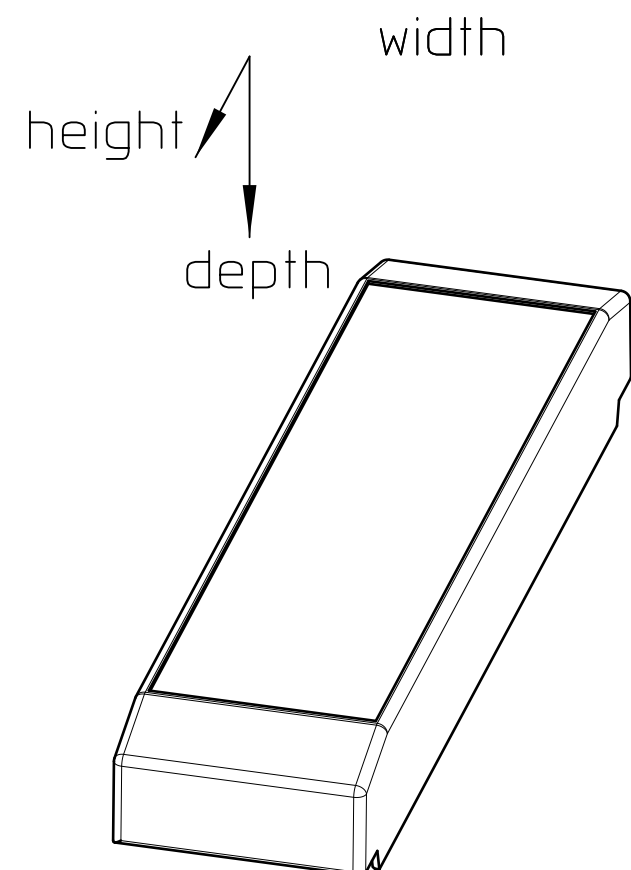
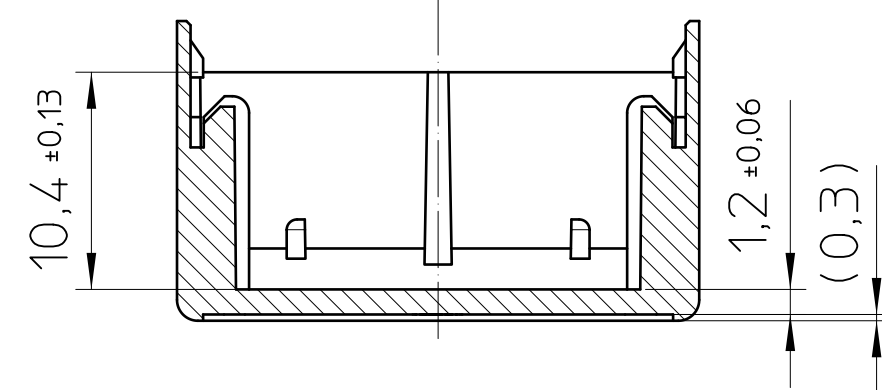
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|---------------------------------------------------------------------------------------|------------|--------------------------------------------|------------|-------|
|  | DIN A2     | document-No. / RI                          | date       | scale |
|                                                                                       |            | 01370880 / 00                              | 23.04.2021 | 1:1   |
|  | ident.-No. | document-type                              |            |       |
|                                                                                       | 1291125    | TECDOC 2D_Productdrawing                   |            |       |
| page 2                                                                                | of 9       | description ICS25-BC100X110-V-7035 DEV-KIT |            |       |



COVER



A-A 2:1

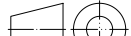


General Information:

- Simplified representation
- Document excluded from change process
- Units are in millimeters [mm] and degrees [°]
- Tolerances apply in a normal climate according to DIN EN ISO 291-23/50-2, PA plastic parts with about 2% (% by weight) moisture content.
- Workpiece zero point for marking and machining processing
- Tolerances for machining processing, milling contour to zero point  $\pm 0,2$ , milling to milling contour  $\pm 0,1$
- Machining radii min. R1, further on request
- Tolerances for printing DIN ISO 2768-m
- Web: [www.phoenixcontact.com](http://www.phoenixcontact.com) webcode: #1635

Additional Information:

- A) PCB  $t = 1,6 \pm 0,2$
- B) Max. marking area, 0,3 recessed, only for pad printing, other printing processes on request.
- C) Max. machining area, 0,3 recessed.
- D) Coding

|                                                                                              |     |                                               |                                           |              |
|----------------------------------------------------------------------------------------------|-----|-----------------------------------------------|-------------------------------------------|--------------|
| Pos.                                                                                         | QTY | Description                                   | Material                                  |              |
| 1                                                                                            | 1   | COVER                                         | PA                                        |              |
|  DIN A3 |     | document-No. / RI<br>01370880 / 00            | date<br>23.04.2021                        | scale<br>1:1 |
|         |     | ident.-No.<br>1291125                         | document-type<br>TECDOC 2D_Productdrawing |              |
|                                                                                              |     | description<br>ICS25-BC100X110-V-7035 DEV-KIT |                                           |              |
| page 3                                                                                       |     | of 9                                          |                                           |              |

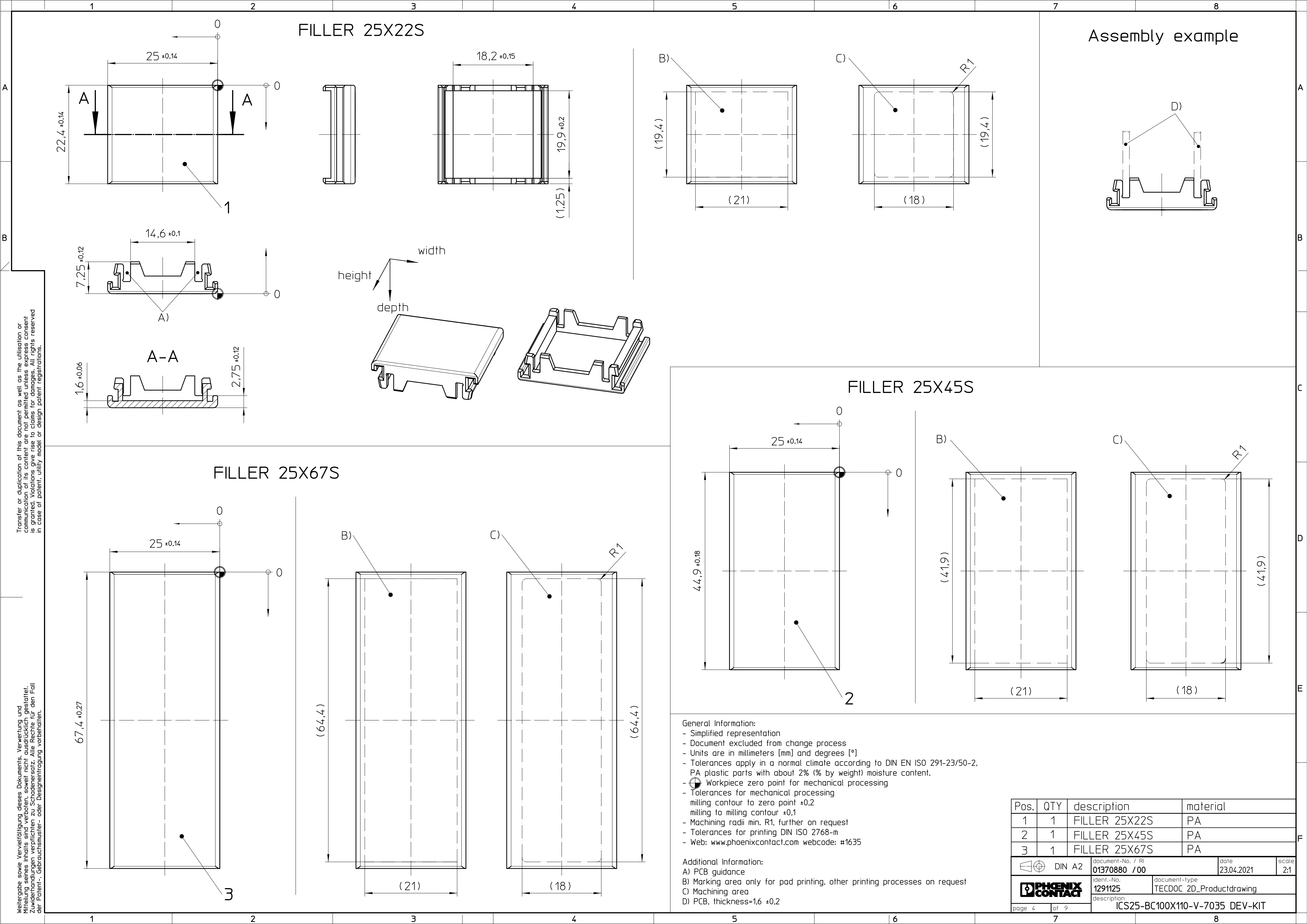
A

B

C

D

E



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  - Workpiece zero point for mechanical processing
  - Tolerances for mechanical processing
    - milling contour to zero point  $\pm 0,2$
    - milling to milling contour  $\pm 0,1$
  - Machining radii min. R1, further on request
  - Tolerances for printing DIN ISO 2768-m
  - Web: [www.phoenixcontact.com](http://www.phoenixcontact.com) webcode: #1635

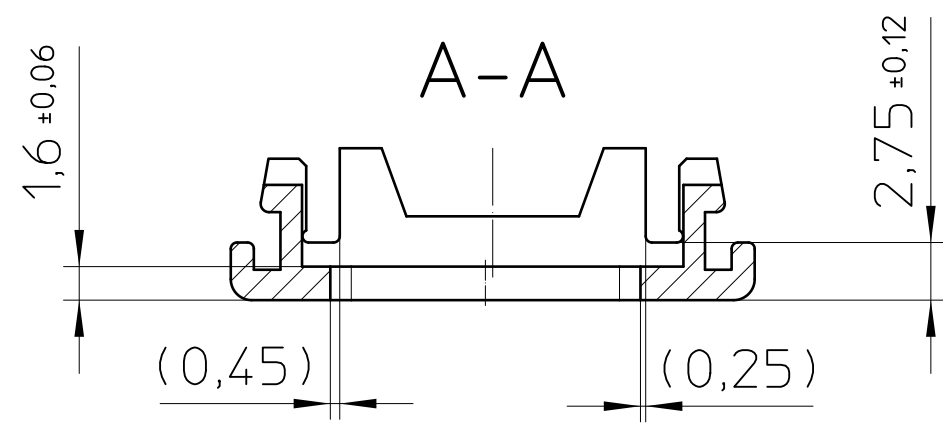
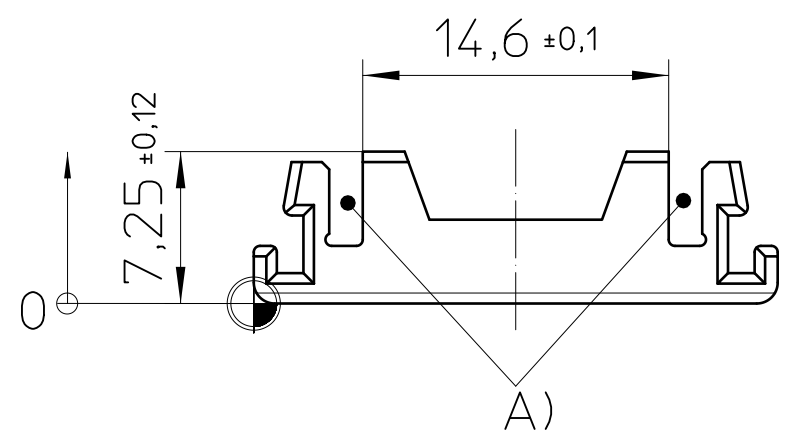
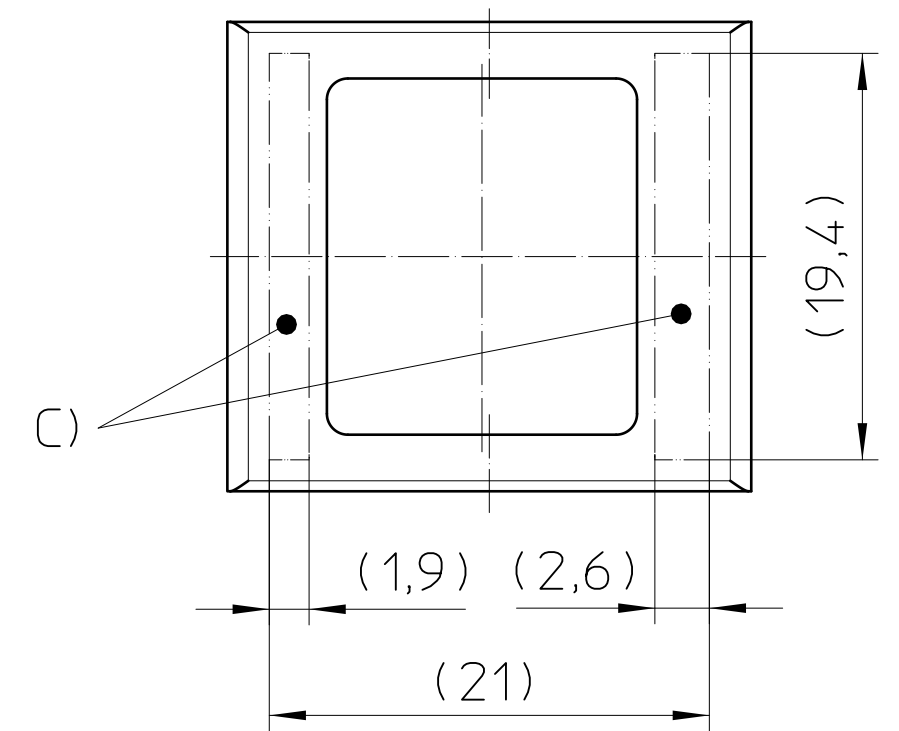
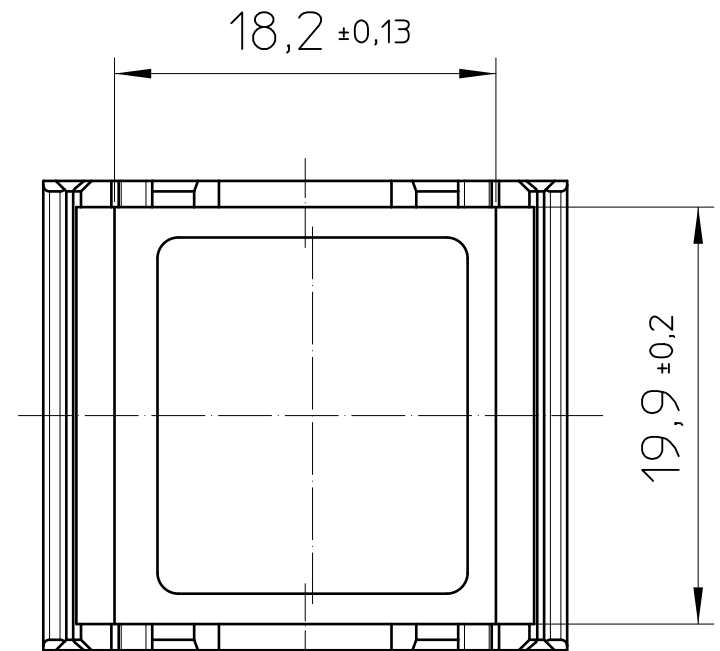
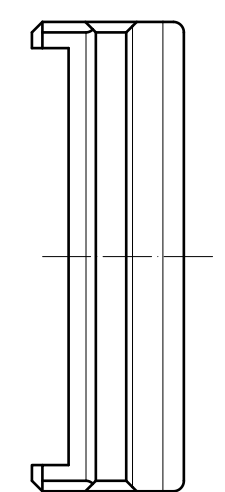
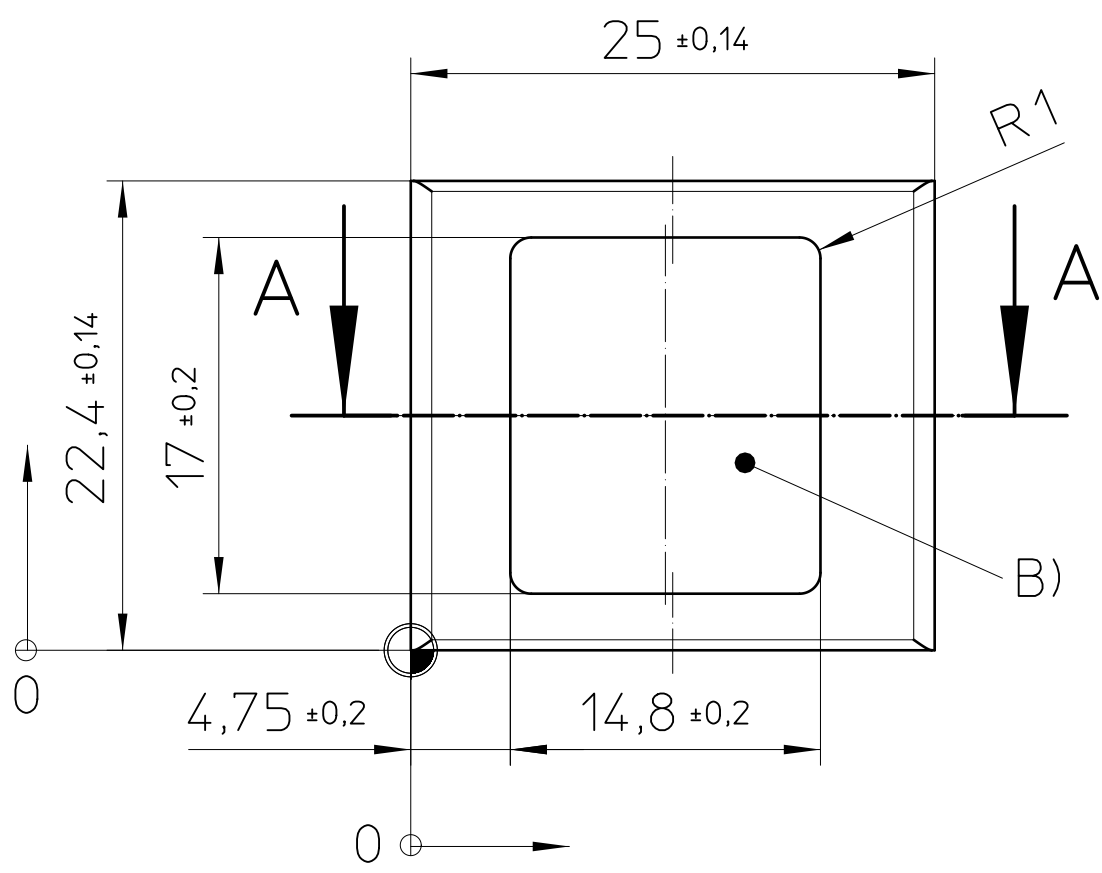
- Additional Information:
- A) PCB guidance
  - B) Marking area only for pad printing, other printing processes on request
  - C) Machining area
  - D) PCB, thickness=1,6  $\pm 0,2$

| Pos.                                                                                         | QTY | description                                   |                                           | material           |              |
|----------------------------------------------------------------------------------------------|-----|-----------------------------------------------|-------------------------------------------|--------------------|--------------|
| 1                                                                                            | 1   | FILLER 25X22S                                 |                                           | PA                 |              |
| 2                                                                                            | 1   | FILLER 25X45S                                 |                                           | PA                 |              |
| 3                                                                                            | 1   | FILLER 25X67S                                 |                                           | PA                 |              |
|  DIN A2 |     | document-No. / RI<br>01370880 / 00            |                                           | date<br>23.04.2021 | scale<br>2:1 |
|         |     | ident.-No.<br>1291125                         | document-type<br>TECDOC 2D_Productdrawing |                    |              |
|                                                                                              |     | description<br>ICS25-BC100X110-V-7035 DEV-KIT |                                           |                    |              |
| page 4 of 9                                                                                  |     |                                               |                                           |                    |              |

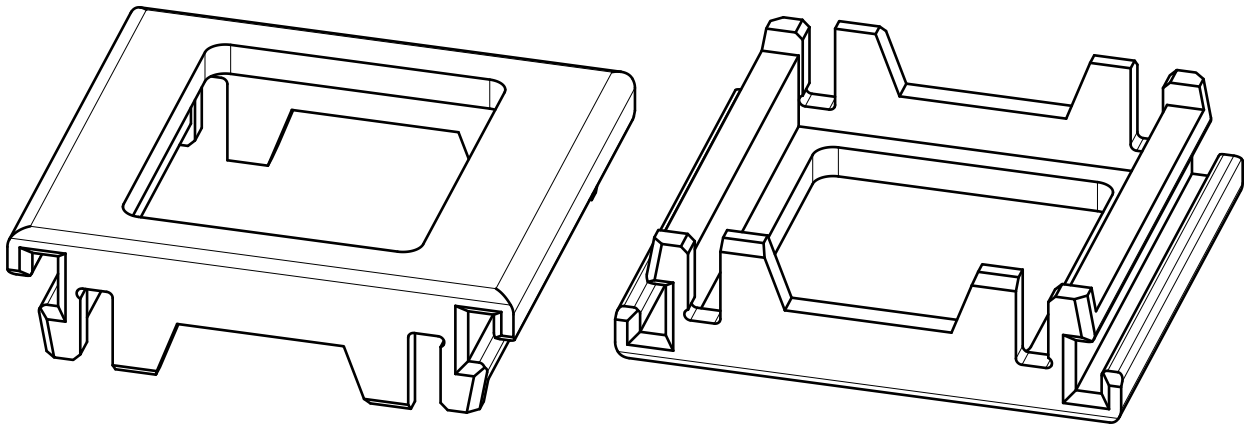
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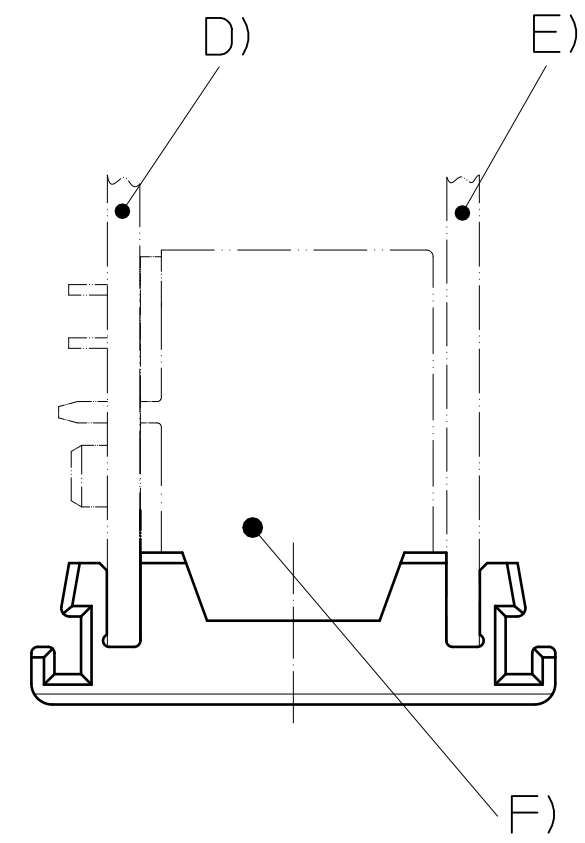
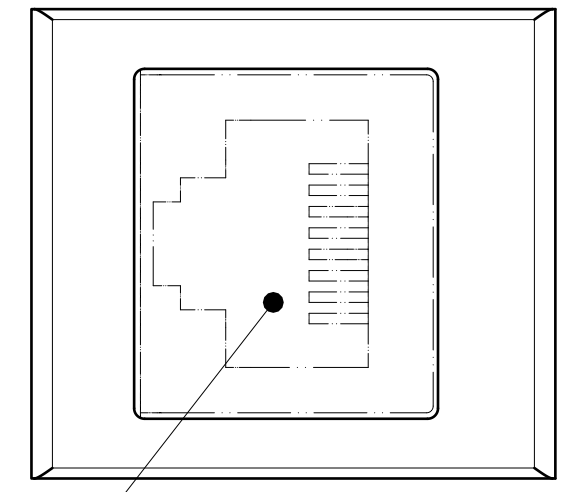
FILLER



height  
width  
depth



Assembly example

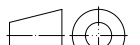


General Information:

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- Tolerances apply in a normal climate according to DIN EN ISO 291-23/50-2, PA plastic parts with about 2% (% by weight) moisture content.
- Workpiece zero point for mechanical processing
- Tolerances for printing DIN ISO 2768-m
- Web: [www.phoenixcontact.com](http://www.phoenixcontact.com) webcode: #1635

Additional Information:

- A) PCB guidance
- B) Opening for connector RJ45, PxC recommendation....
- C) Marking area for pad printing, other printing process on request
- D) Main PCB, thickness= 1.6±0.2
- E) Second PCB, thickness= 1.6±0.2
- F) Connector RJ45

|                                                                                              |     |                                               |                                           |              |  |
|----------------------------------------------------------------------------------------------|-----|-----------------------------------------------|-------------------------------------------|--------------|--|
| Pos.                                                                                         | QTY | Description                                   | Material                                  |              |  |
| 1                                                                                            | 1   | FILLER                                        | PA                                        |              |  |
|  DIN A3 |     | document-No. / RI<br>01370880 / 00            | date<br>23.04.2021                        | scale<br>2:1 |  |
|         |     | ident.-No.<br>1291125                         | document-type<br>TECDOC 2D_Productdrawing |              |  |
|                                                                                              |     | description<br>ICS25-BC100X110-V-7035 DEV-KIT |                                           |              |  |
|                                                                                              |     | page 5 of 9                                   |                                           |              |  |

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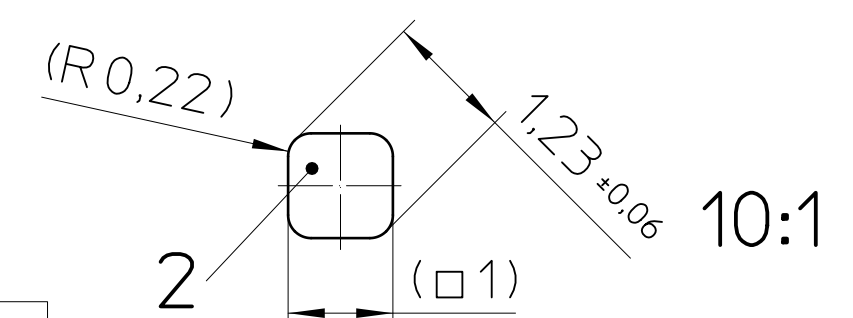
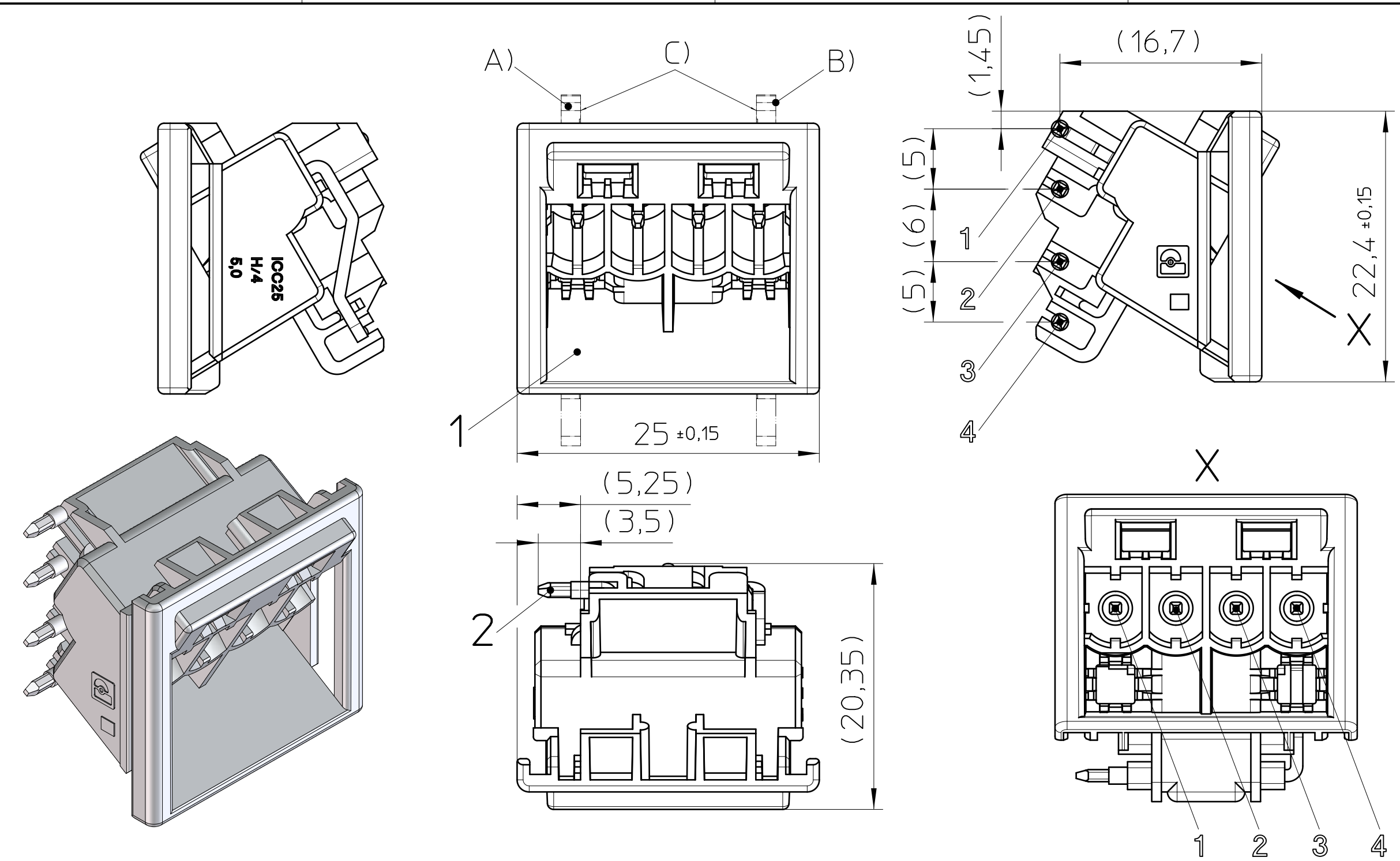
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General Information:

- Simplified representation, exemplary shown in grey
- Document excluded from change process
- Linear dimensions [mm]
- Tolerances apply in a normal climate according to DIN EN ISO 291-23/50-2, PA plastic parts with about 2% (% by weight) moisture content.
- Web: [www.phoenixcontact.com](http://www.phoenixcontact.com) webcode: #1635
- When using this connection technology in housing systems from Phoenix Contact see appropriate documentation
-  Restricted area, no components
- General tolerances PCB:  
dimensions <=30: +/-0,1 / R+/-0,2 / +/-1°  
dimensions > 30: +/-0,15 / R+/-0,2 / +/-1°  
symmetry: 0,2
- Undimensioned PCB radii R=1,2

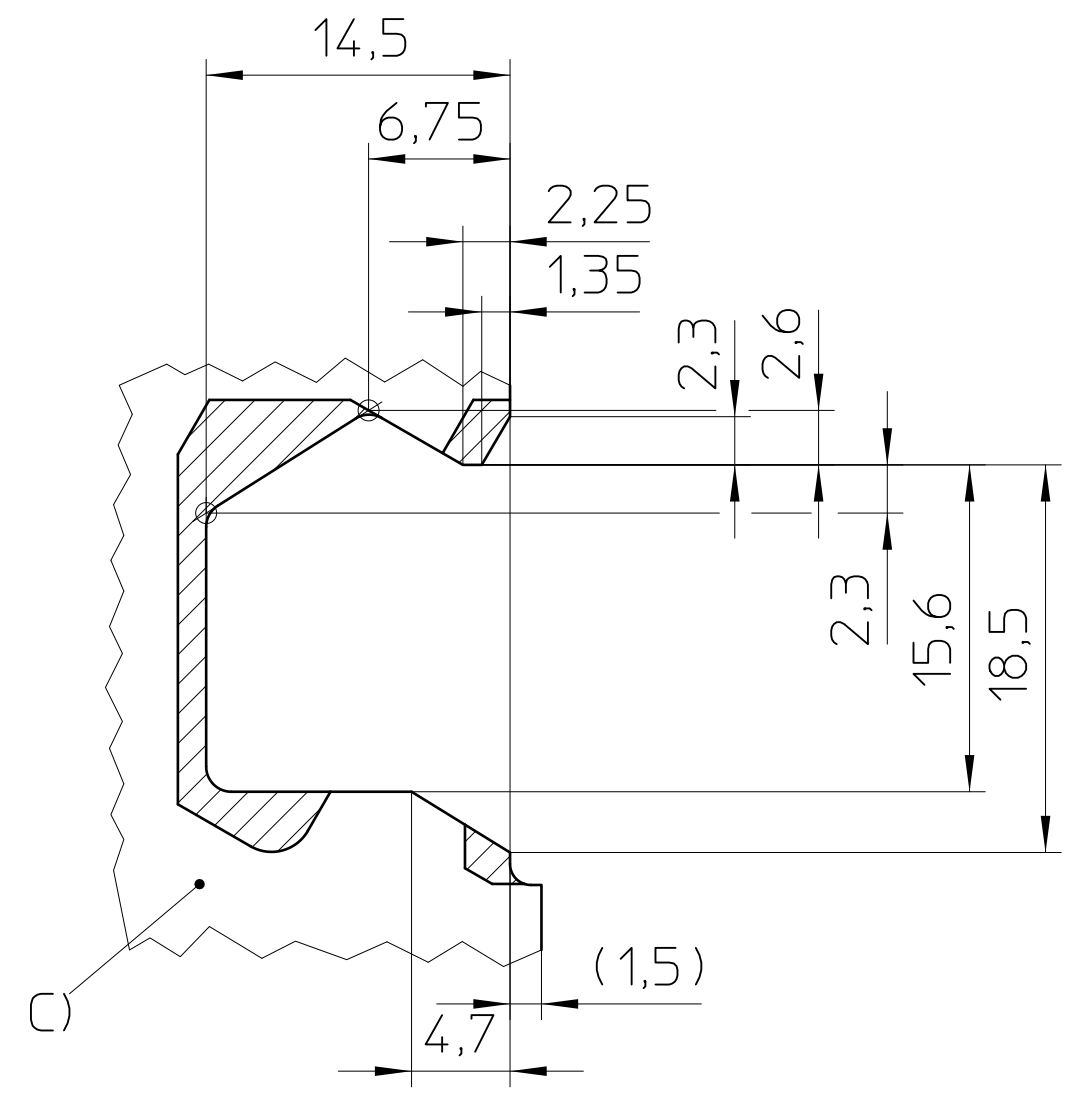
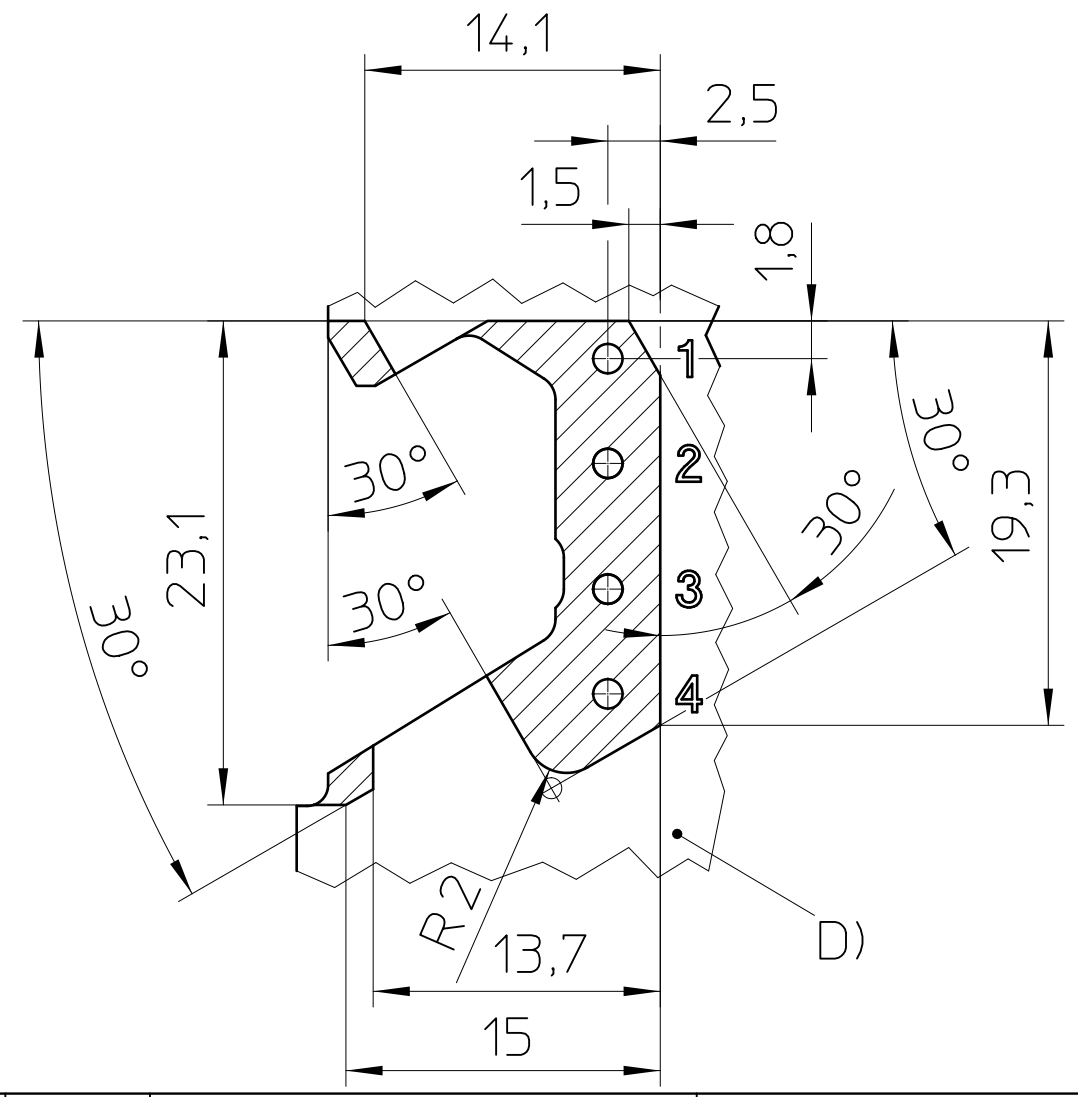
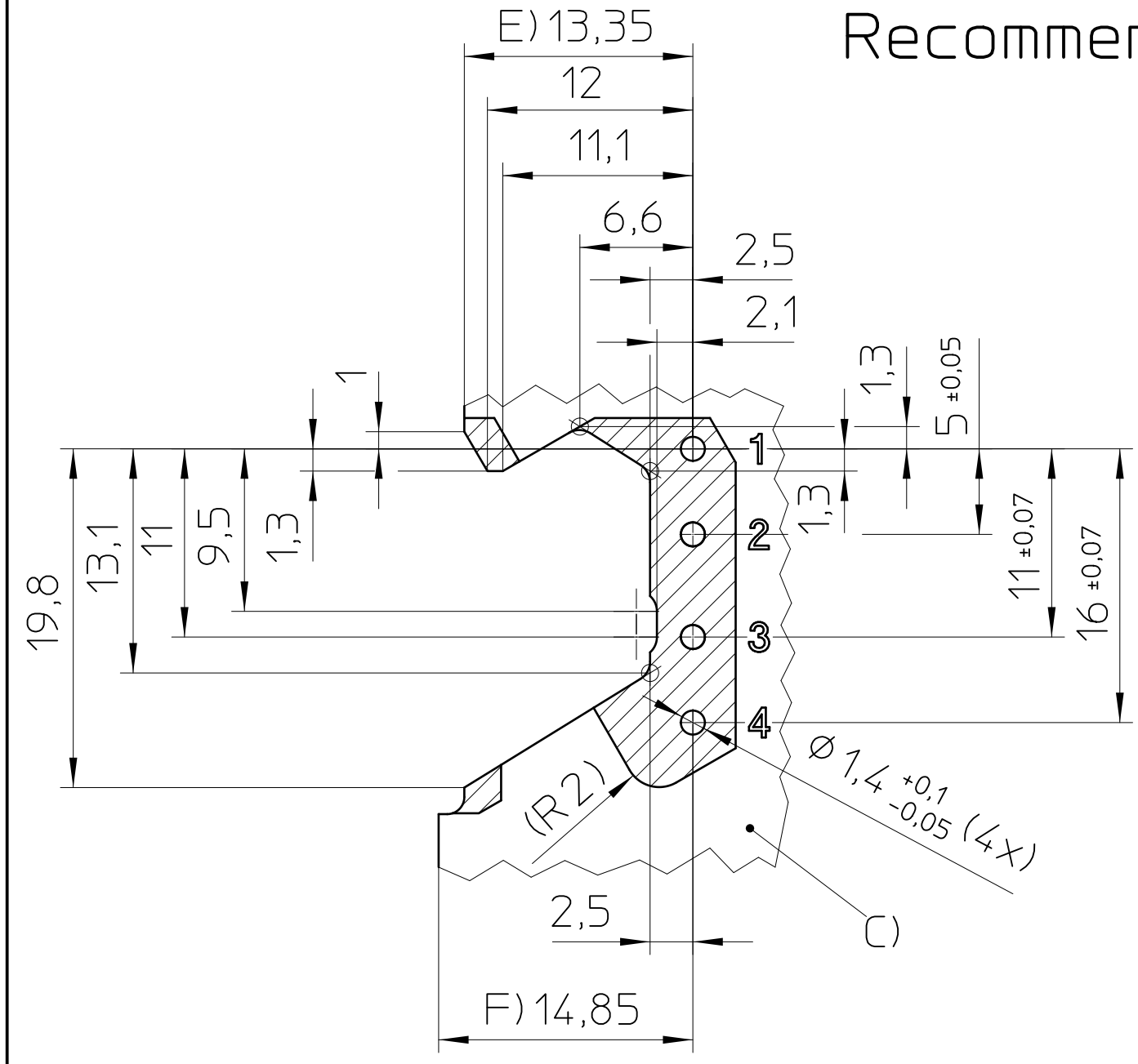
Additional Information:

- A) Main PCB t=1,6+/-0,2
- B) Second PCB t=1,6+/-0,2
- C) PCB top side
- D) PCB top side (dimensioning of restricted area)
- E) Dimension for PCB edge: ICC connection technology and ICS Filler
- F) Dimension for PCB edge: ICC housing
- When using this connection technology in housing systems from Phoenix Contact see appropriate documentation



Recommended Main PCB

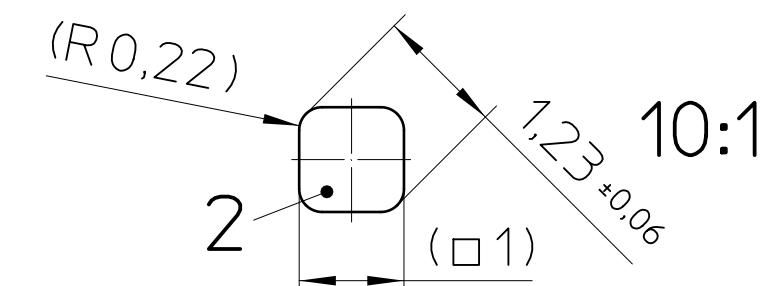
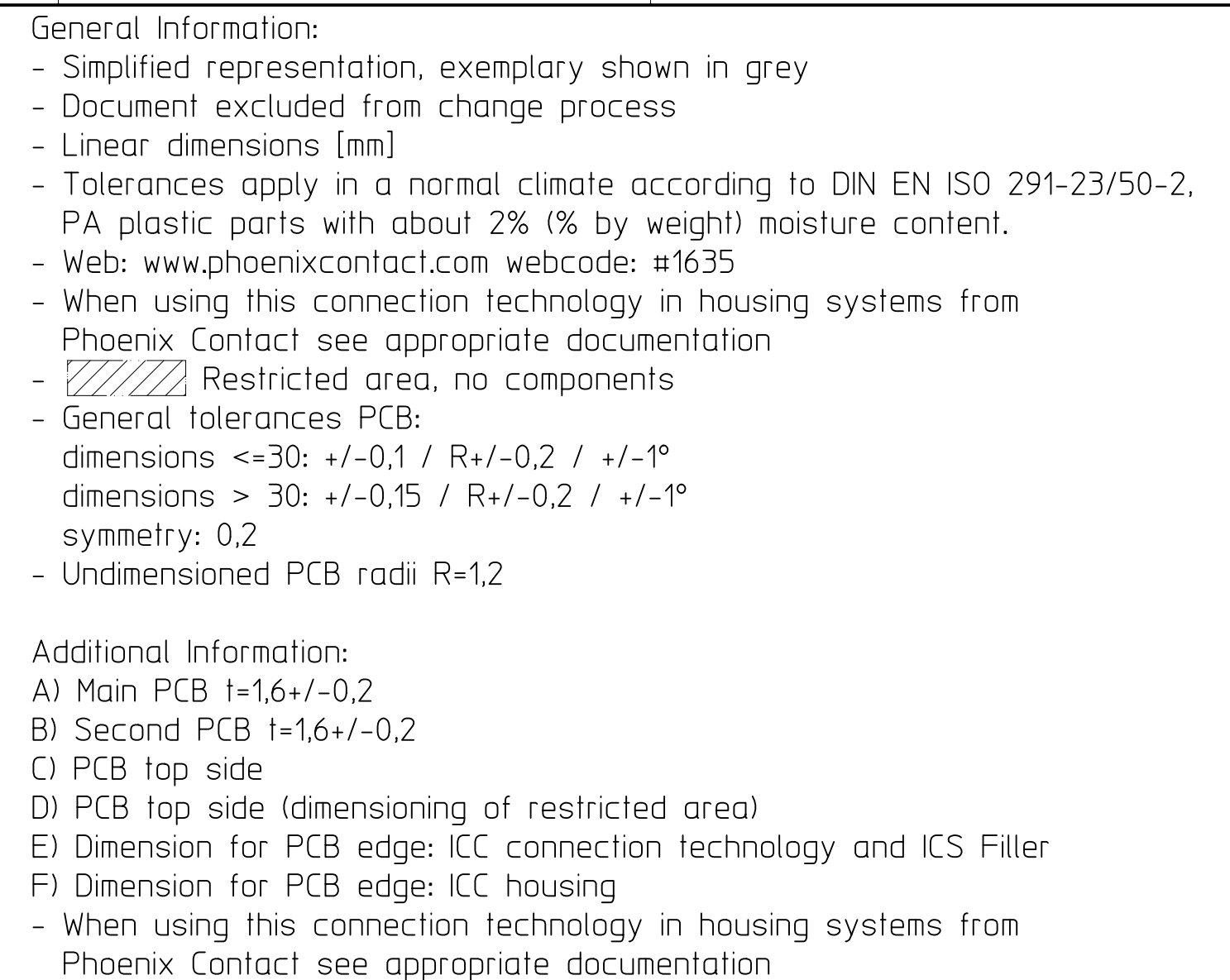
Recommended Second PCB



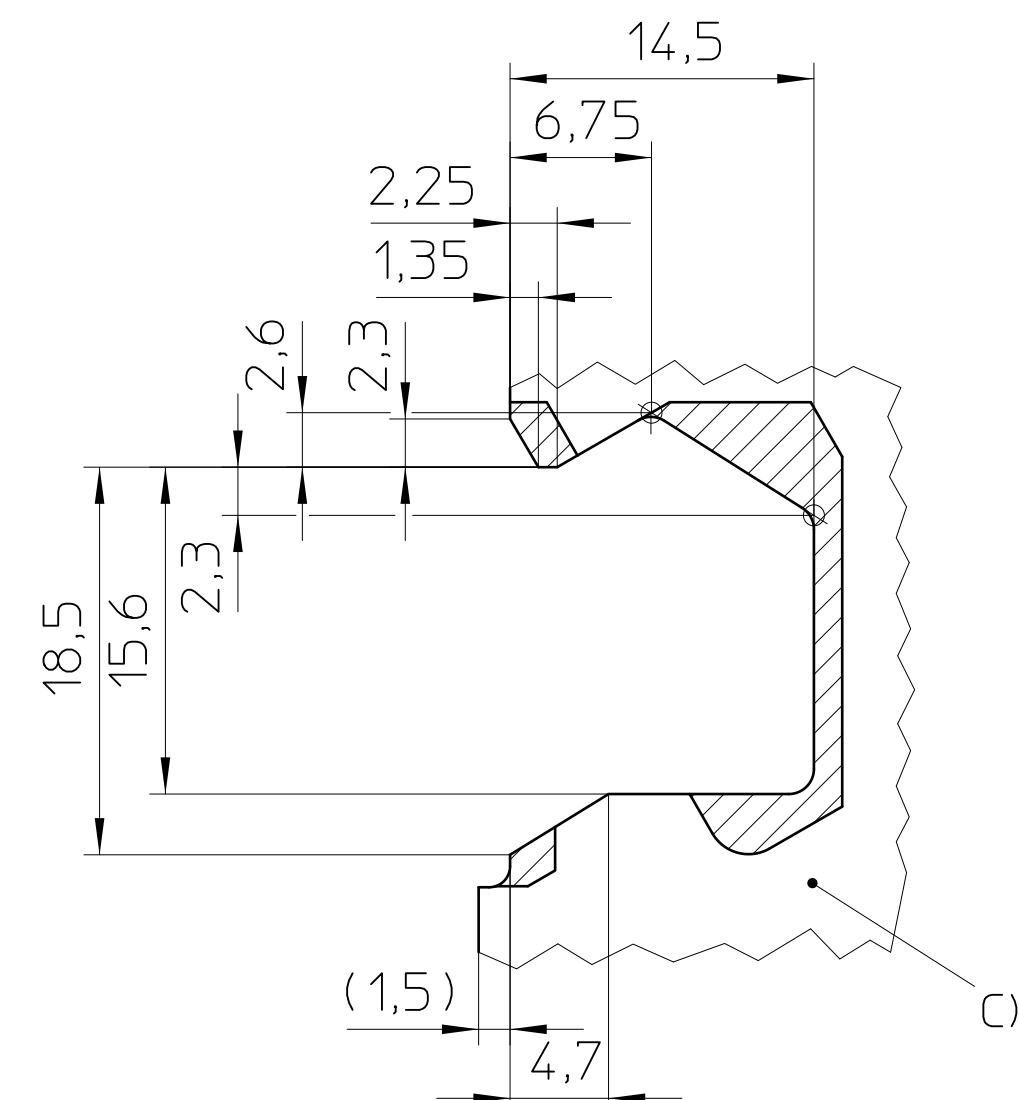
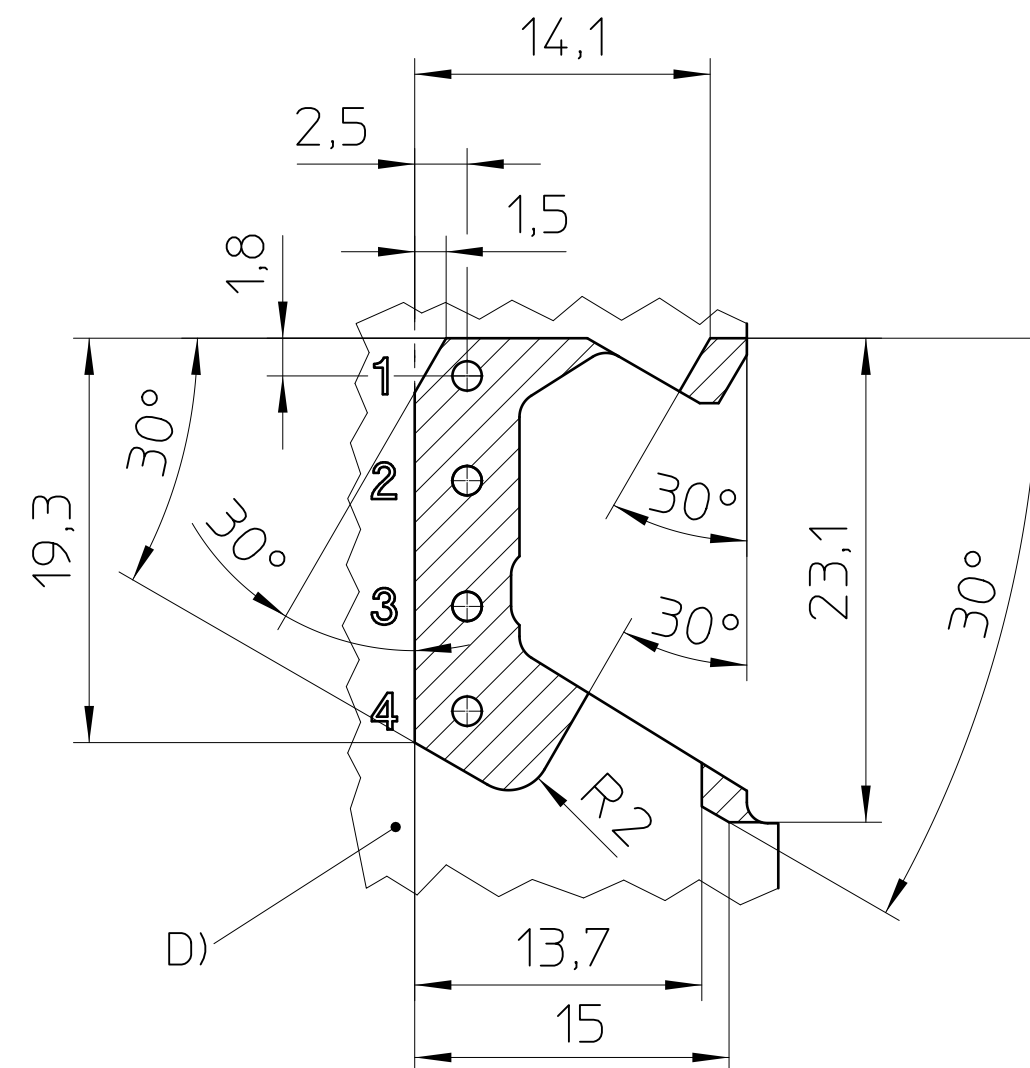
| Pos. | QTY | description | material |
|------|-----|-------------|----------|
| 1    | 1   | HEADER      | PA       |
| 2    | 4   | SOLDER PIN  | Cu alloy |

|                                                                                       |        |                                |                          |               |       |
|---------------------------------------------------------------------------------------|--------|--------------------------------|--------------------------|---------------|-------|
|  | DIN A3 |                                | document-No. / RI        | date          | scale |
|                                                                                       |        |                                | 01370880 / 00            | 23.04.2021    | 2:1   |
|                                                                                       |        |                                | ident.-No.               | document-type |       |
|                                                                                       |        | 1291125                        | TECDOC 2D_Productdrawing |               |       |
|                                                                                       |        | description                    |                          |               |       |
|                                                                                       |        | ICS25-BC100X110-V-7035 DEV-KIT |                          |               |       |
| page 6                                                                                |        | of 9                           |                          |               |       |

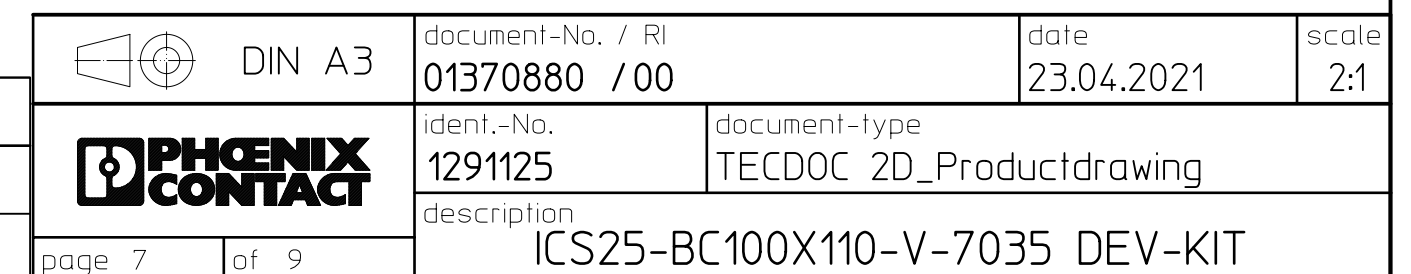
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## Recommended Second PCB

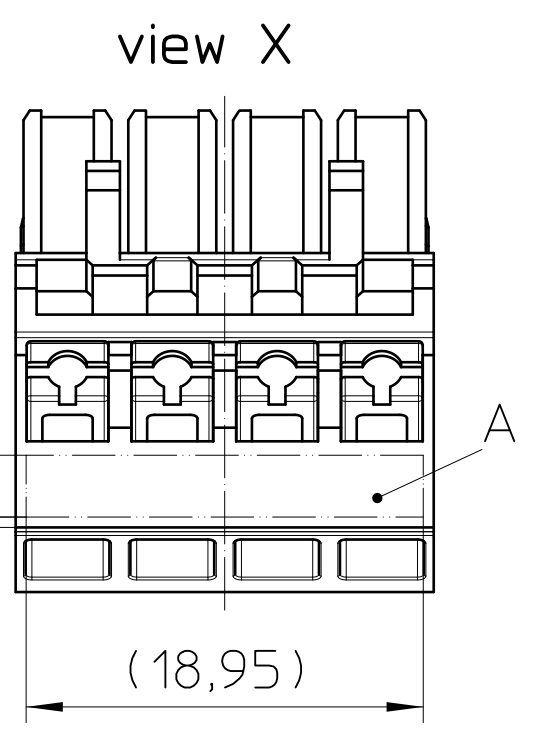
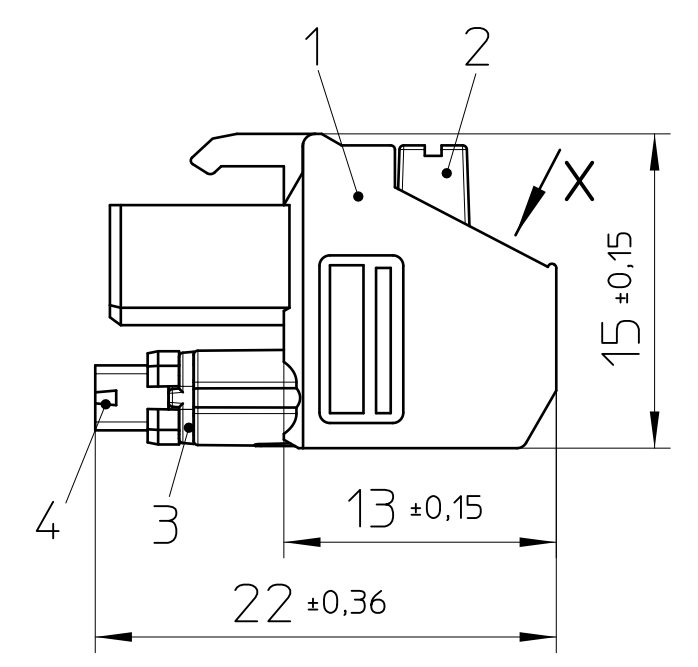
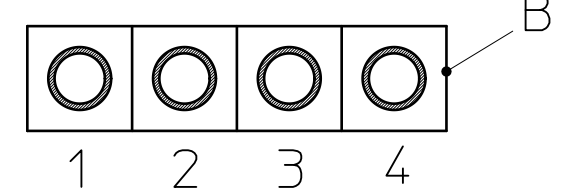
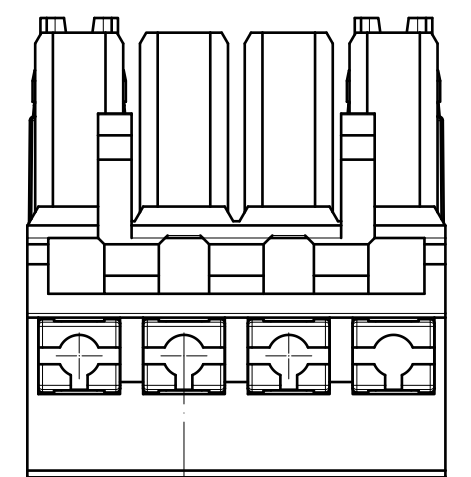
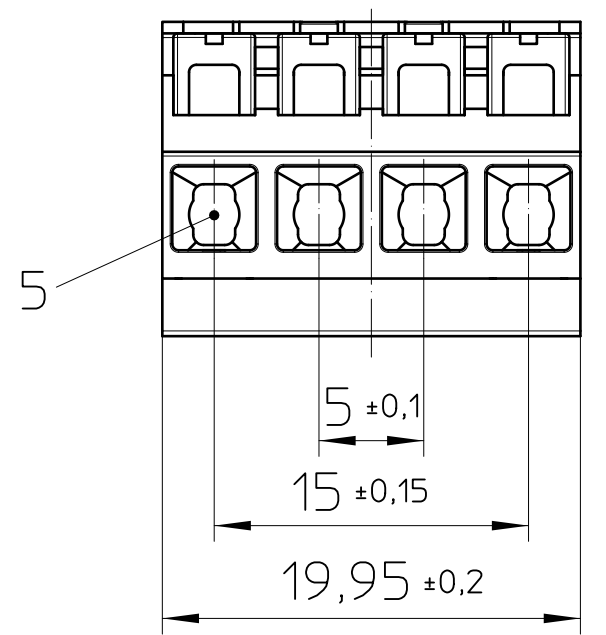
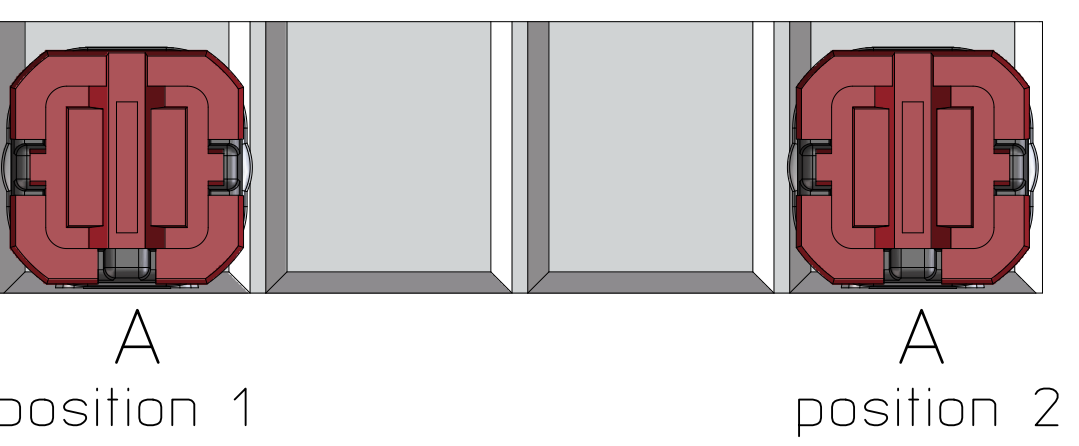
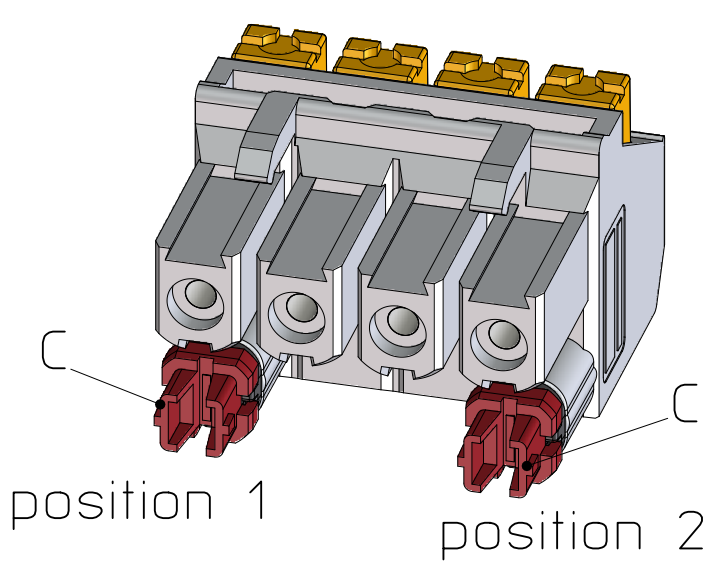
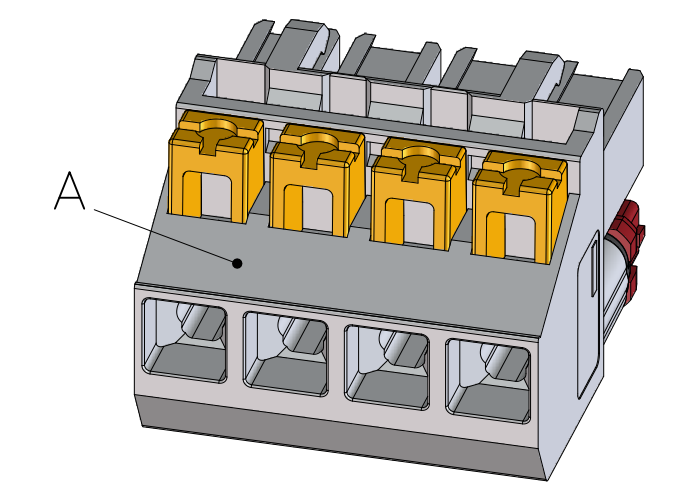


| Pos. | QTY | description | material |
|------|-----|-------------|----------|
| 1    | 1   | HEADER      | PA       |
| 2    | 4   | SOLDER PIN  | Cu alloy |



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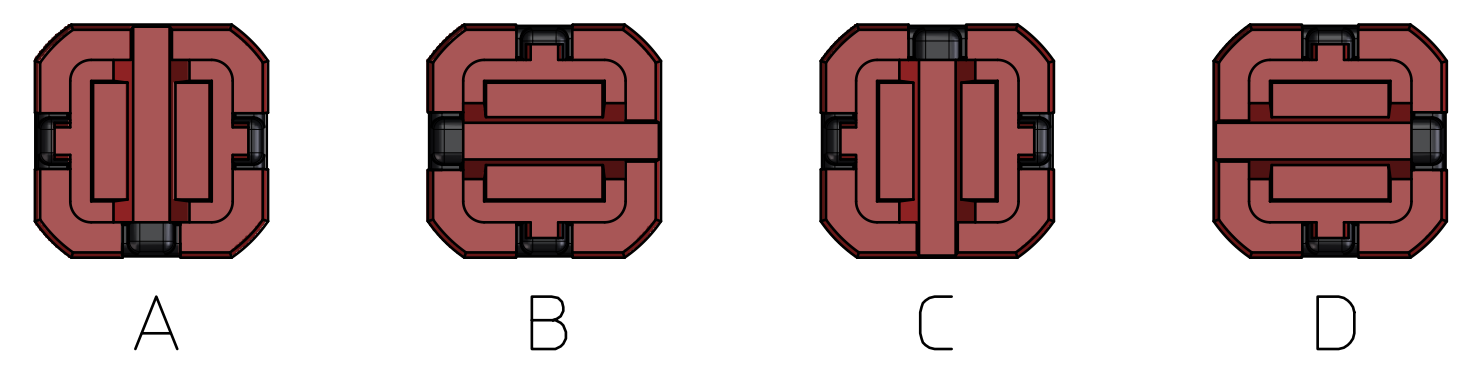
| Pos. | QTY | Description     | Material      |
|------|-----|-----------------|---------------|
| 1    | 1   | PLUG            | PA            |
| 2    | 4   | SPRING OPENER   | PBT           |
| 3    | 2   | CODING-PLUG     | PA            |
| 4    | 2   | CODING-HEADER   | PA            |
| 5    | 4   | PUSH-IN CONTACT | Cu alloy, STL |

- General Information:
- Corresponding header ICC25-H/4L/R5,0
  - Simplified representation, exemplary shown in grey
  - Document excluded from change process
  - Units are in millimeters [mm] and degrees [°]
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  - Web: [www.phoenixcontact.com](http://www.phoenixcontact.com) webcode: #1635

Additional Information:  
A) Marking area  
B) Contact type

| schematic symbol | description     | electrical symbol |
|------------------|-----------------|-------------------|
|                  | single contact  |                   |
|                  | without contact |                   |

C) Coding adjustment with screwdriver  
e.g. 1205037 - SZS 0,4X2,5 VDE

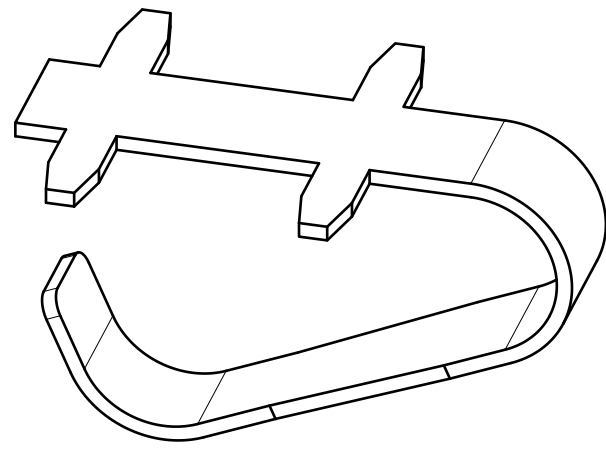
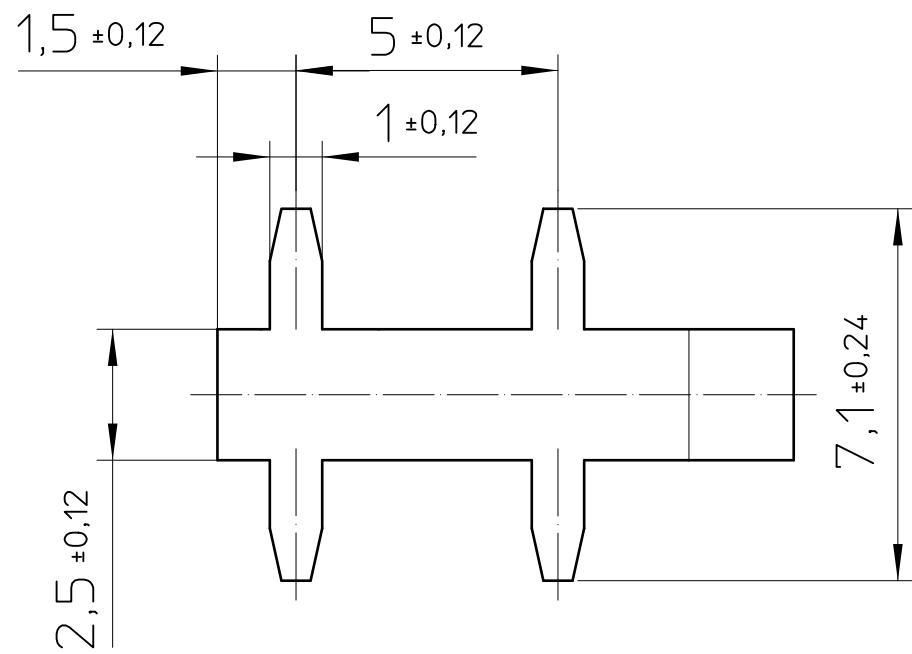
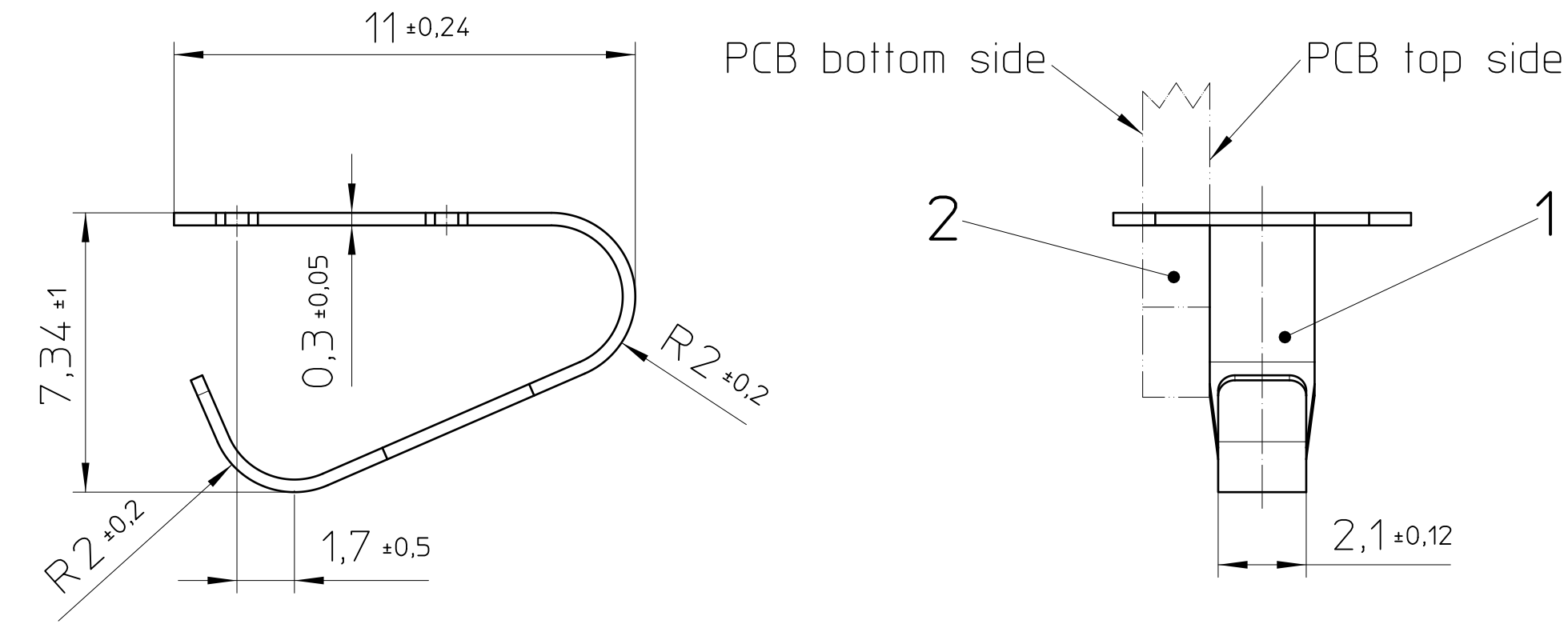


Example : ICC25-PPC2,5/4-5,0- CB  
position 1      position 2

|        |                 |                                               |                                           |              |
|--------|-----------------|-----------------------------------------------|-------------------------------------------|--------------|
|        | DIN A3          | document-No. / RI<br>01370880 / 00            | date<br>23.04.2021                        | scale<br>2:1 |
|        | PHOENIX CONTACT | ident.-No.<br>1291125                         | document-type<br>TECDOC 2D_Productdrawing |              |
| page 8 | of 9            | description<br>ICS25-BC100X110-V-7035 DEV-KIT |                                           |              |

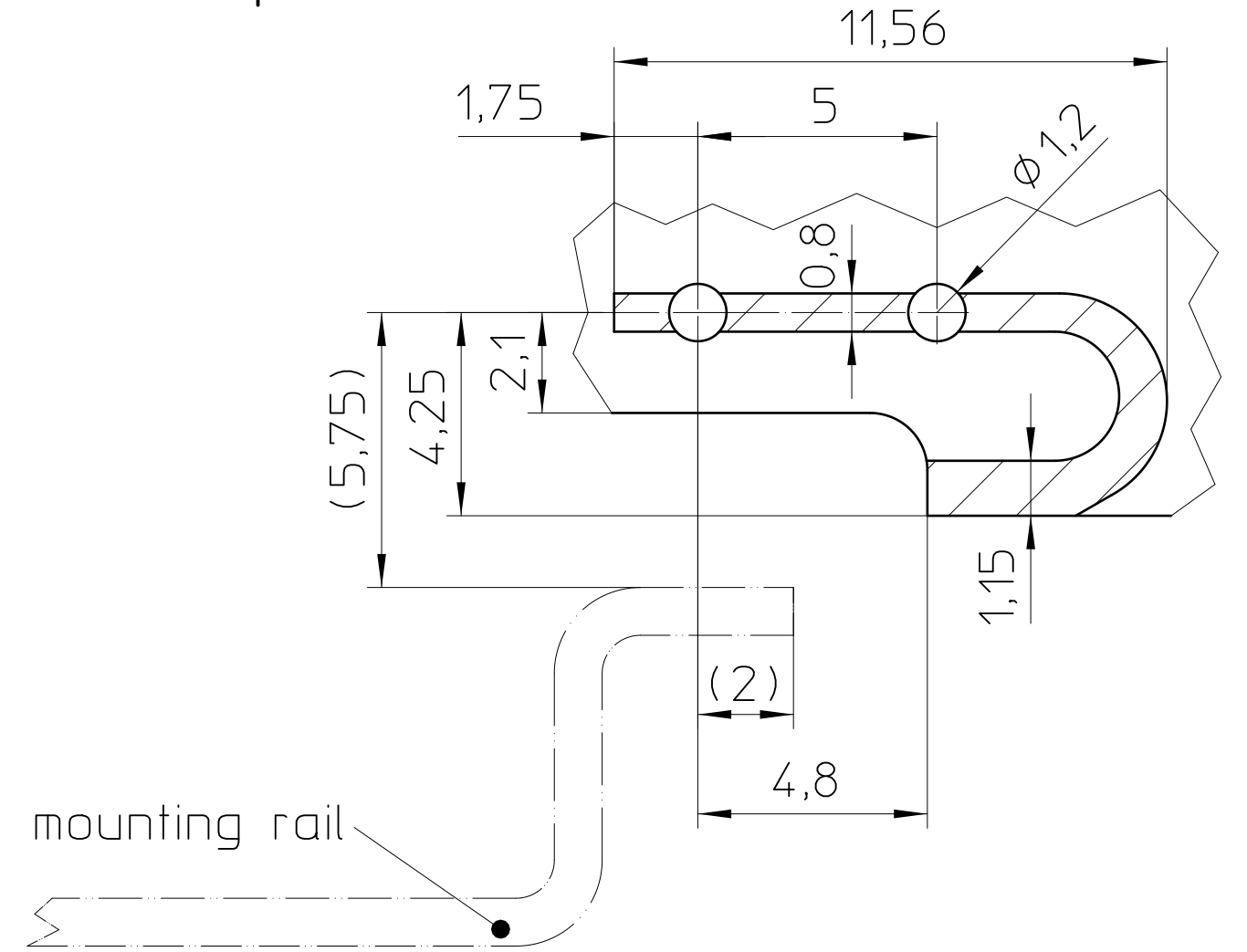
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## recommended PCB drilling plan

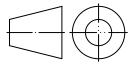
view: top side



General tolerances for PCB:  
dimensions  $\leq 30$ :  $\pm 0,1/R \pm 0,2/\pm 1^\circ$   
dimensions  $> 30$ :  $\pm 0,15/R \pm 0,2/\pm 1^\circ$   
symmetry: 0,2

### General Information:

- Simplified representation
- Restricted area 
- Document excluded from change process
- Web: [www.phoenixcontact.com](http://www.phoenixcontact.com) webcode: #1599
- Linear dimensions [mm]

|                                                                                              |     |                                |                          |                  |       |
|----------------------------------------------------------------------------------------------|-----|--------------------------------|--------------------------|------------------|-------|
| Pos.                                                                                         | QTY | description                    |                          | material         |       |
| 1                                                                                            | 1   | FE-Contact                     |                          | Steel, Sn plated |       |
| 2                                                                                            | 1   | PCB                            |                          |                  |       |
|  DIN A3 |     | document-No. / RI              |                          | date             | scale |
|                                                                                              |     | 01370880 / 00                  |                          | 23.04.2021       | 5:1   |
|         |     | ident.-No.                     | document-type            |                  |       |
|                                                                                              |     | 1291125                        | TECDOC 2D_Productdrawing |                  |       |
|                                                                                              |     | description                    |                          |                  |       |
| page 9                                                                                       |     | ICS25-BC100X110-V-7035 DEV-KIT |                          |                  |       |
| of 9                                                                                         |     |                                |                          |                  |       |