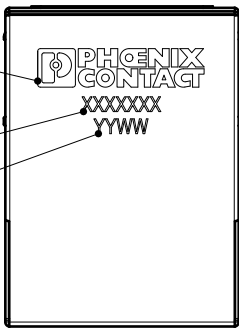
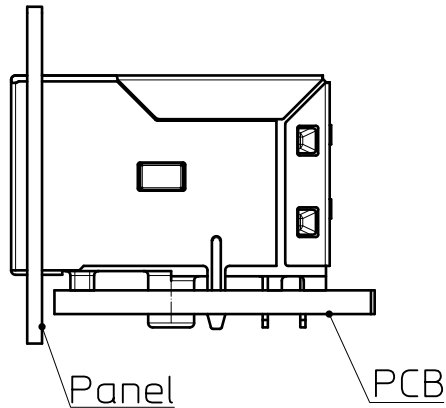
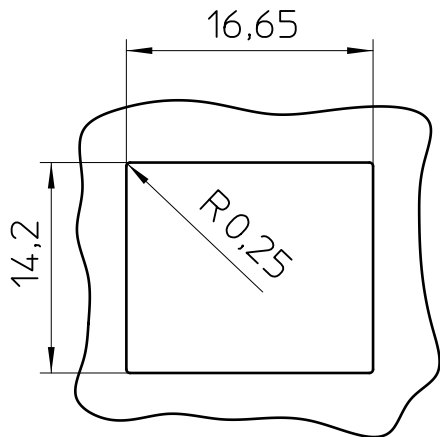


Transfer or duplication of this document as well as the utilisation or communication of its content are not permitted unless express consent is granted. Violations give rise to claims for damages. All rights reserved in case of patent, utility model or design patent registrations. Tolerance specifications do not include clearances inherent in the design.

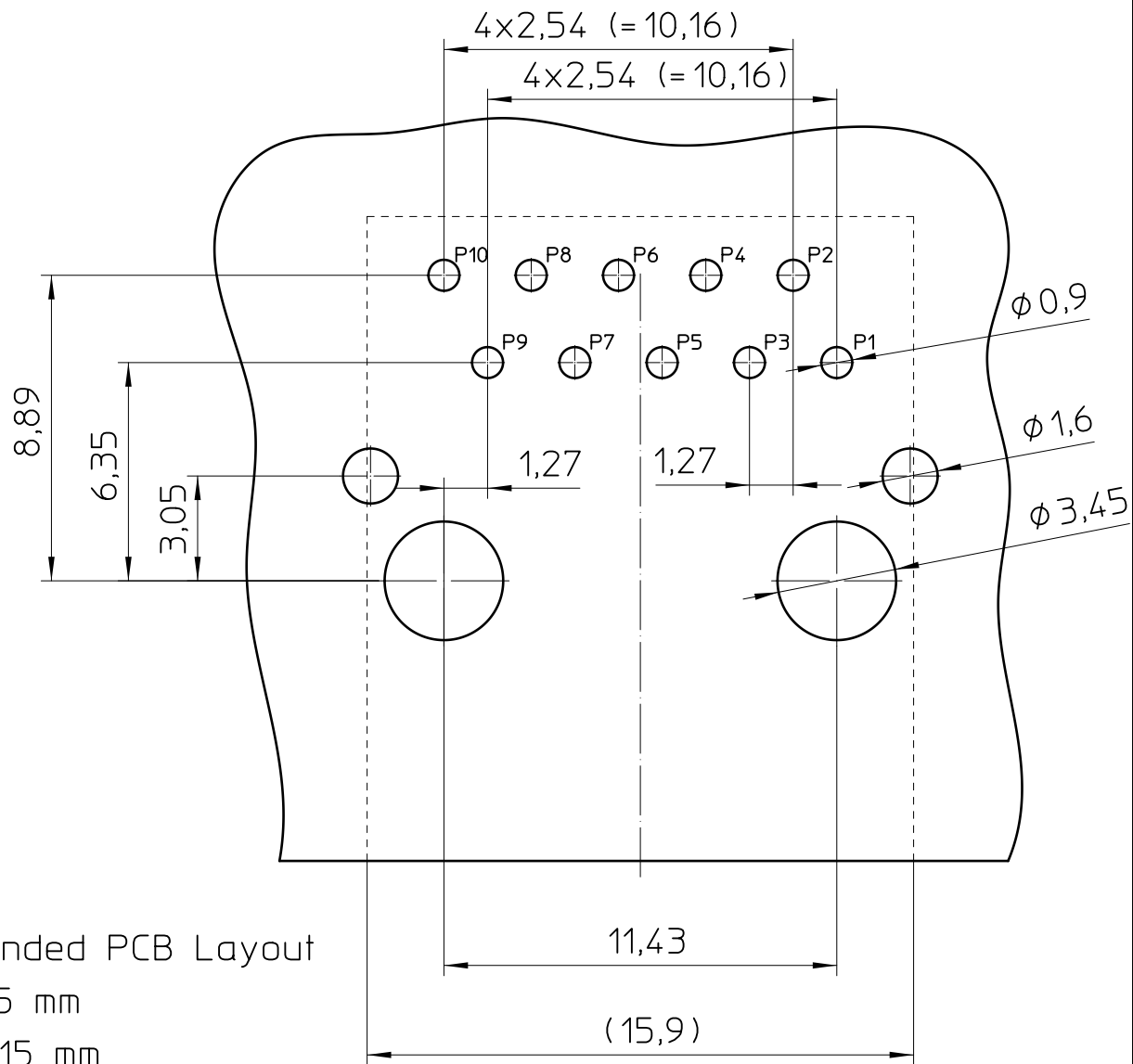
Weitergabe sowie Vervielfältigung dieses Dokuments, Verwertung und Mitteilung seines Inhalts sind verboten, soweit nicht ausdrücklich gestattet. Zuwiderhandlungen verpflichten zu Schadensersatz. Alle Rechte für den Fall der Patent-, Gebrauchsmuster- oder Designeintragung vorbehalten. Baugrößungsspiel ist in den Toleranzangaben nicht berücksichtigt.

Recommended panel cutout



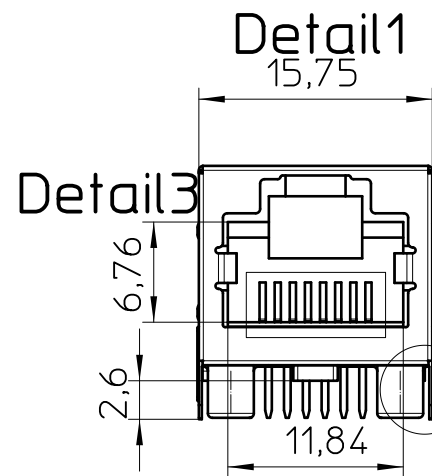
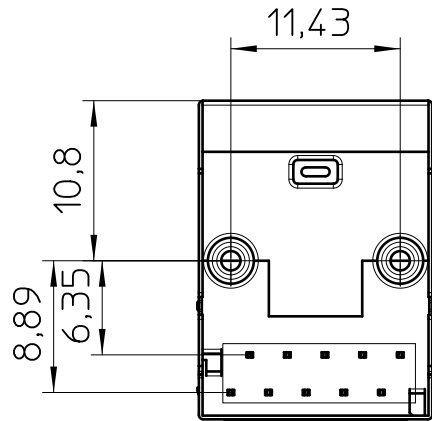
Phoenix Logo  
Lasered 2,6 mm H  
Phoenix Part Number  
1 mm H  
Date Code  
1 mm H

PCB drill hole dimensions (see from component side)



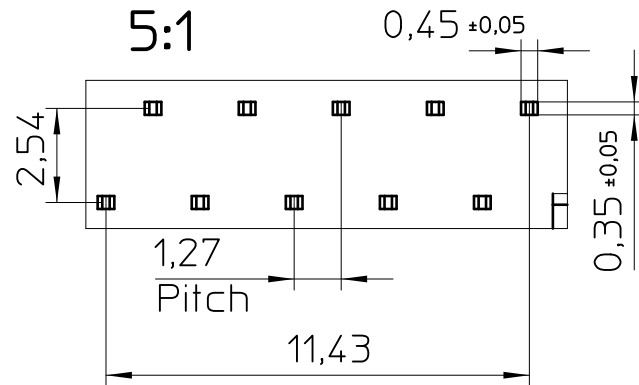
Recommended PCB Layout

Tol:  $\pm 0,05$  mm  
T:  $1,60 \pm 0,15$  mm



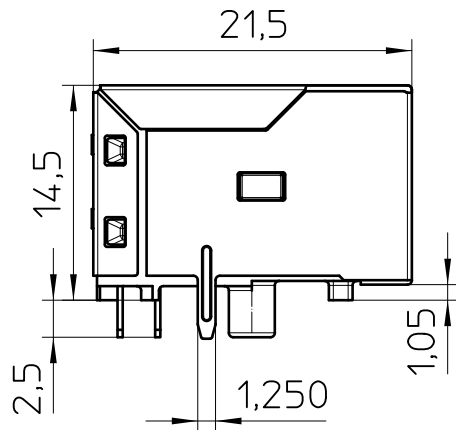
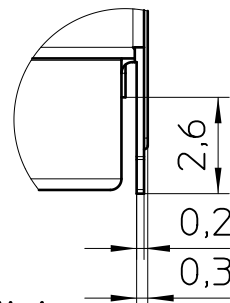
Detail1

5:1



Detail4

5:1



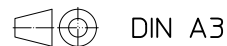
Detail3

5:1



General Tolerances

|                  |            |
|------------------|------------|
| 1 Decimal Place  | $\pm 0,25$ |
| 2 Decimal Places | $\pm 0,20$ |
| 3 Decimal Places | $\pm 0,15$ |

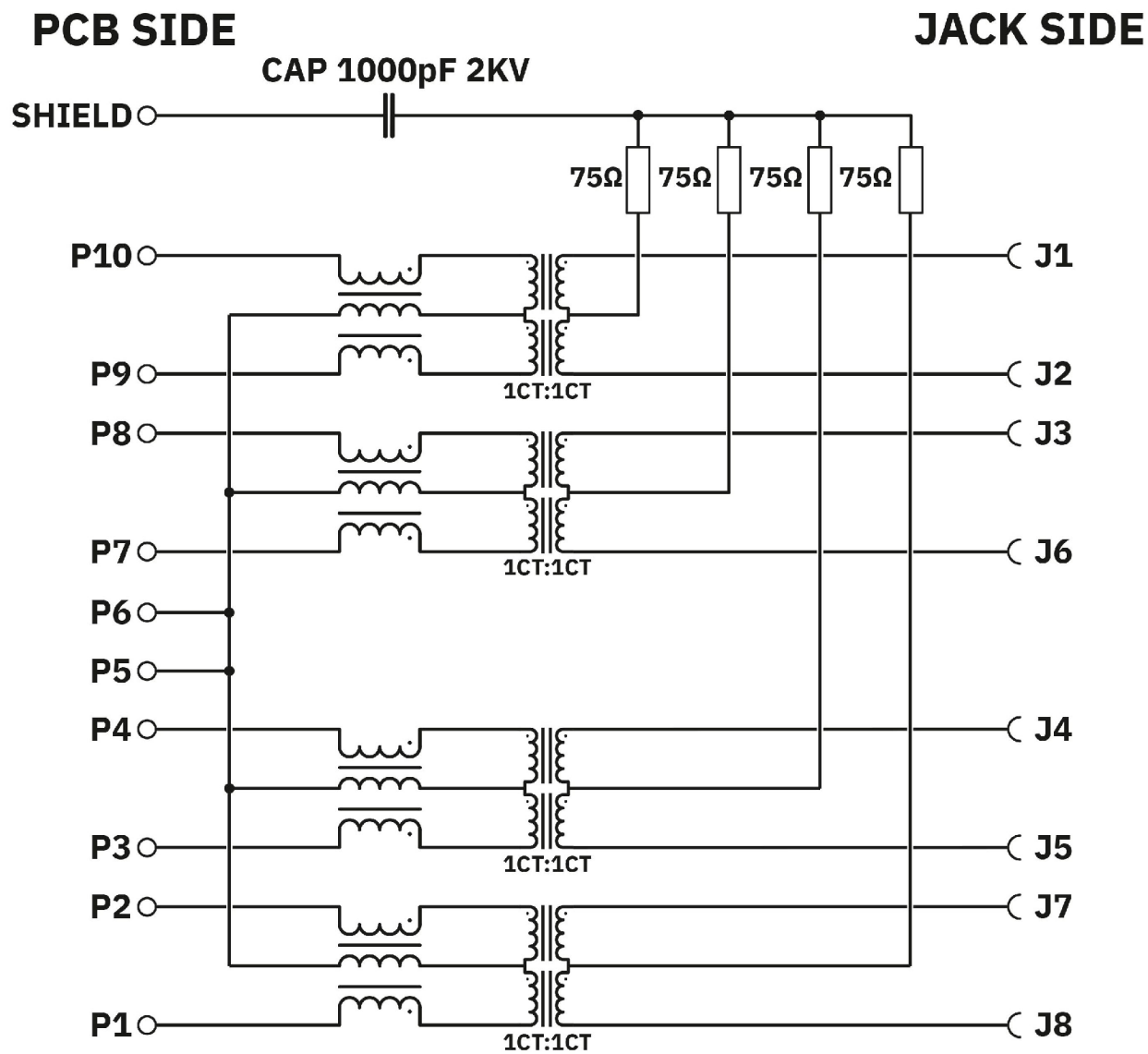


page 1 of 2

|                   |                         |       |                                                                                                    |
|-------------------|-------------------------|-------|----------------------------------------------------------------------------------------------------|
| document-no. / ri | article-no.             | scale | - Simplified representation<br>- Document excluded from change process<br>- Linear dimensions [mm] |
| 01760853 / 00     | 1663993                 | 2:1   |                                                                                                    |
| date              | document-type           |       |                                                                                                    |
| 07.11.2024        | TECDOC 2D_Productfamily |       |                                                                                                    |
| description       |                         |       | CUC-IB7G-J1ST-AT/R4R                                                                               |

Transfer or duplication of this document as well as the utilisation or communication of its content are not permitted unless express consent is granted. Violations give rise to claims for damages. All rights reserved in case of patent, utility model or design patent registrations. Tolerance specifications do not include clearances inherent in the design.

Weitergabe sowie Vervielfältigung dieses Dokuments, Verwertung und Mitteilung seines Inhalts sind verboten, soweit nicht ausdrücklich gestattet. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patent-, Gebrauchsmuster- oder Designeintragung vorbehalten. Bauartbedingtes Spiel ist in den Toleranzangaben nicht berücksichtigt.



## ELECTRONICAL SPECIFICATIONS

### 1. ACCORDING TO IEEE 802.3

2. TURN RATIO @100KHz: (P10~P9):(J1~J2) = 1:1±5%  
(P8~P7):(J3~J6) = 1:1±5%  
(P4~P3):(J4~J5) = 1:1±5%  
(P2~P1):(J7~J8) = 1:1±5%

3. PRIMARY INDUCTANCE: 350μH MIN @100KHz  
0,1V 8mA DC BIAS

4. DC RESISTANCE: 1,2 OHMS MAX

5. INSERTION LOSS: 1-125MHz -1,0dB TYP

6. RETURN LOSS: 1-40MHz -16dB MIN  
40-60MHz -12dB MIN  
60-80MHz -10dB MIN  
80-100MHz -8dB MIN

7. CROSS TALK: 1-100MHz -30dB MIN

8. COMMON TO COMMON  
MODE ATTENUATION: 1-100MHz -30dB MIN

9. ISOLATION: PHY SIDE TO LINE SIDE: 2250VDC

- EN ISO 291 23/50

|                                                                                              |  |                                            |  |                                                 |  |                     |  |                                                                                                                                                              |
|----------------------------------------------------------------------------------------------|--|--------------------------------------------|--|-------------------------------------------------|--|---------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  DIN A3 |  | document-no. / ri<br><b>01760853 / 00</b>  |  | article-no.<br><b>1663993</b>                   |  | scale<br><b>2:1</b> |  | <ul style="list-style-type: none"><li>- Simplified representation</li><li>- Document excluded from change process</li><li>- Linear dimensions [mm]</li></ul> |
|         |  | date<br><b>07.11.2024</b>                  |  | document-type<br><b>TECDOC 2D_Productfamily</b> |  |                     |  |                                                                                                                                                              |
|                                                                                              |  | description<br><b>CUC-IB7G-J1ST-AT/R4R</b> |  |                                                 |  |                     |  |                                                                                                                                                              |
| page 2                                                                                       |  | of 2                                       |  |                                                 |  |                     |  |                                                                                                                                                              |