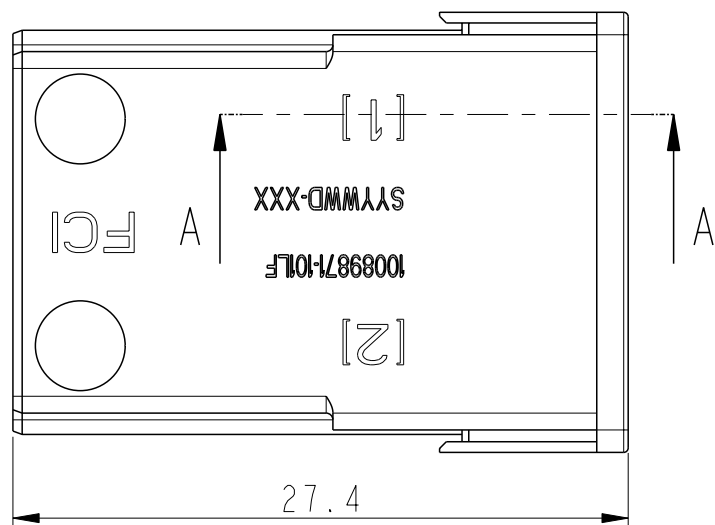
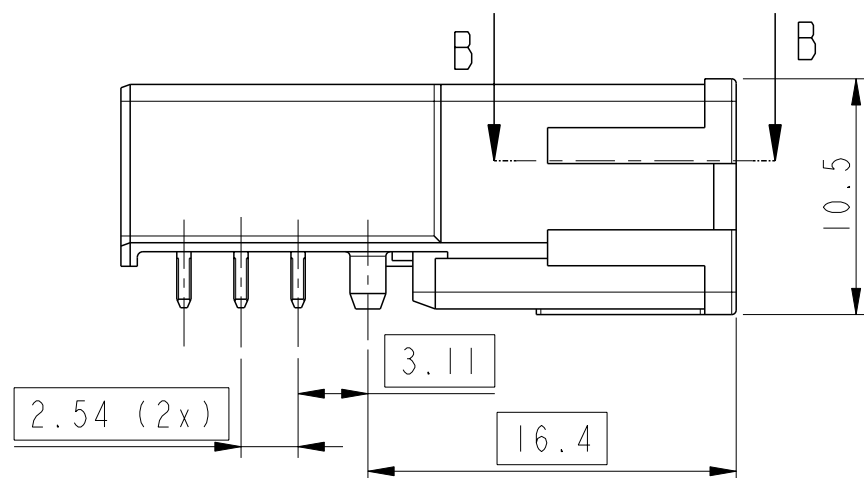


PRODUCT NUMBER  
10089871

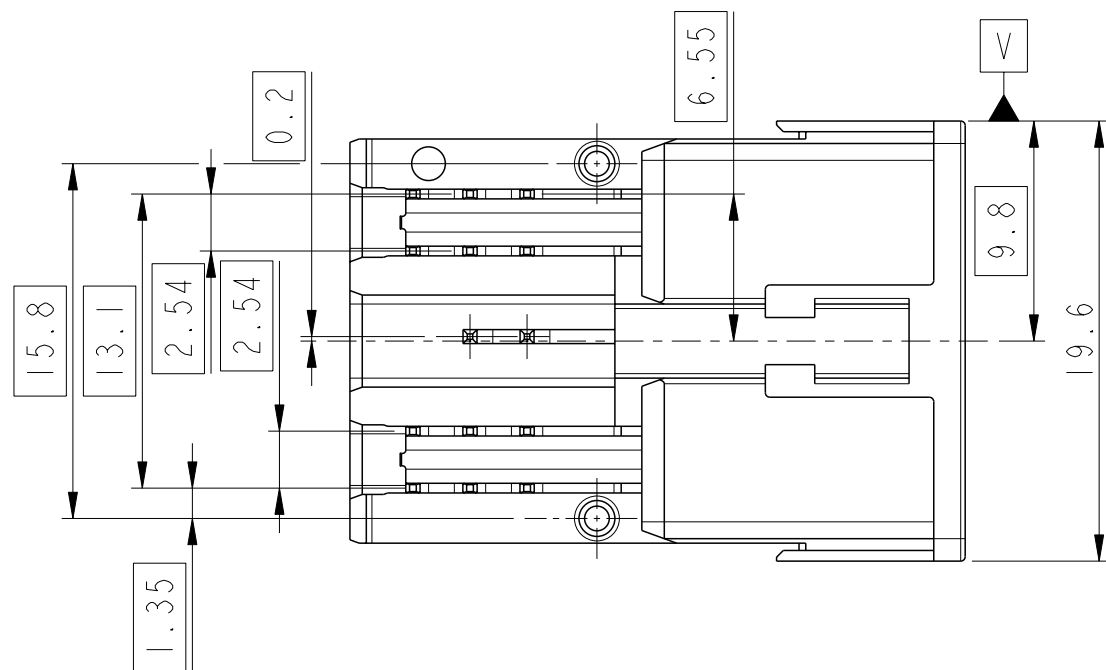
A



B



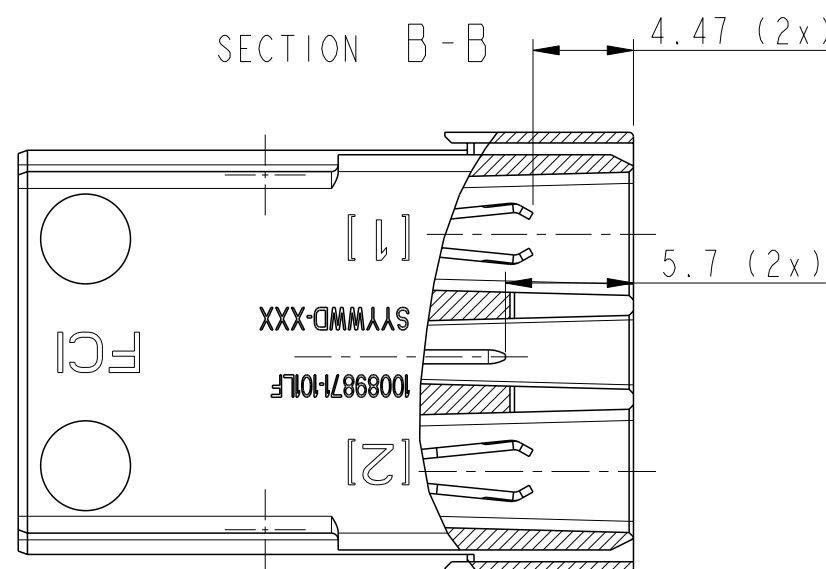
C



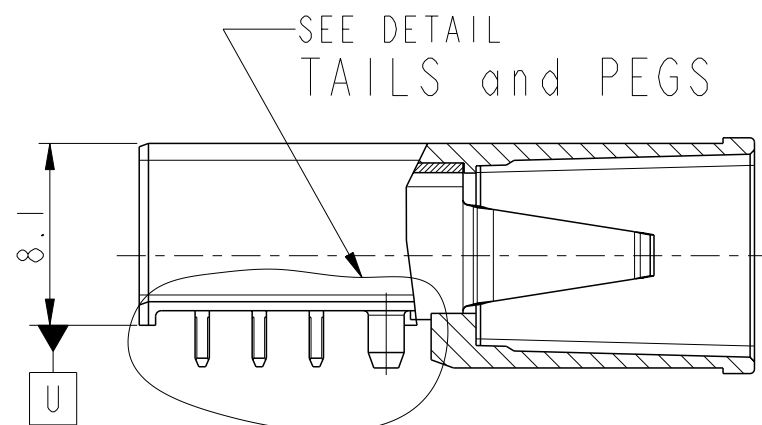
2

2

SECTION B-B

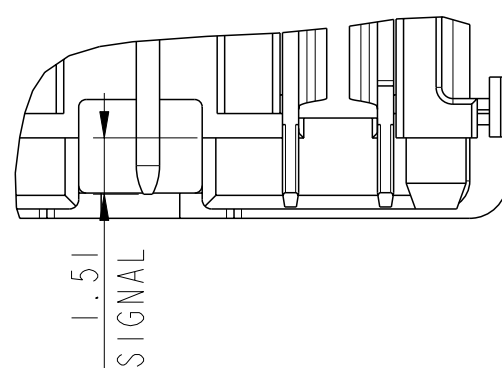


SEE DETAIL  
TAILS and PEGS

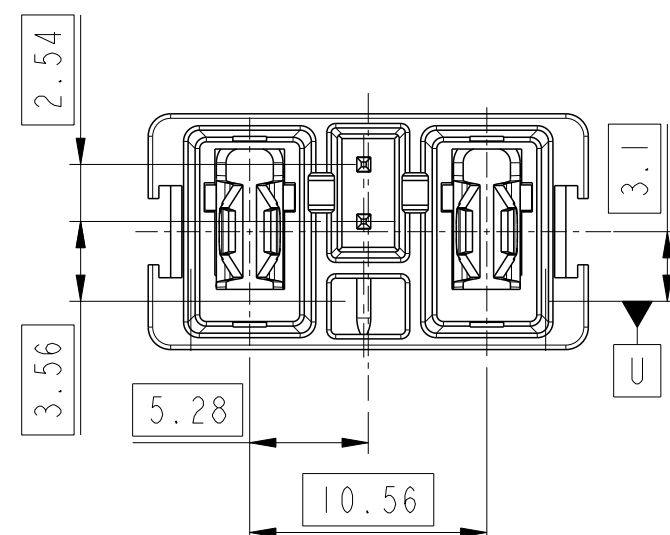
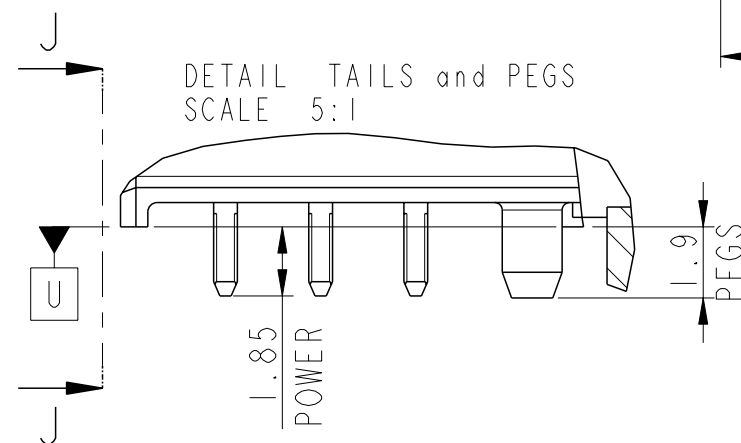


SECTION A-A

VIEW : J-J



DETAIL TAILS and PEGS  
SCALE 5:1



A

B

C

D

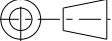


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D

REV F - 2006-04-17

| rev | ecn no   | dr  | date   |
|-----|----------|-----|--------|
| A   | H09-0076 | PEP | 090616 |
| B   | H09-0094 | JDB | 090828 |
| -   | -        | -   | -      |
| -   | -        | -   | -      |
| -   | -        | -   | -      |
| -   | -        | -   | -      |

|                                                                                       |             |            |                                                                |        |                                   |    |                                                                                                     |                                                                                             |     |
|---------------------------------------------------------------------------------------|-------------|------------|----------------------------------------------------------------|--------|-----------------------------------|----|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----|
| www.fci.com                                                                           |             |            | surface -<br>ISO 1302                                          |        | tolerance std<br>ISO 406 ISO 1101 |    | projection<br> | <br>mm |     |
|                                                                                       |             |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                          |        |                                   |    |                                                                                                     |                                                                                             |     |
| Dr                                                                                    | P.Poorter   | 2009-03-09 | ANGULAR                                                        | LINEAR | 0.X                               | ±  | size                                                                                                | Scale                                                                                       |     |
| Eng                                                                                   | J.de Bruijn | 2008-08-05 |                                                                |        | 0.XX                              | ±  | A3                                                                                                  | 1:1                                                                                         |     |
| Chr                                                                                   | P.Poorter   | 2009-03-12 |                                                                |        | 0°                                | ±° | 0.XXX                                                                                               | ±                                                                                           | ECN |
| Appr                                                                                  | J.de Bruijn | 2009-03-12 | Product family                                                 |        |                                   |    | -                                                                                                   | Spec ref                                                                                    | -   |
|  |             | title      | PwrProfile+ Board Connector Assembly<br>UNSHIELDED PIP VERSION |        |                                   |    | dwg no                                                                                              | 10089871                                                                                    | Rev |
|                                                                                       |             |            |                                                                |        |                                   |    |                                                                                                     |                                                                                             |     |
|                                                                                       |             |            | catalog no                                                     | -      | CUSTOMER COPY                     |    |                                                                                                     | sheet 1 of 4                                                                                |     |

3

3

PDM: Rev:B

STATUS: Released

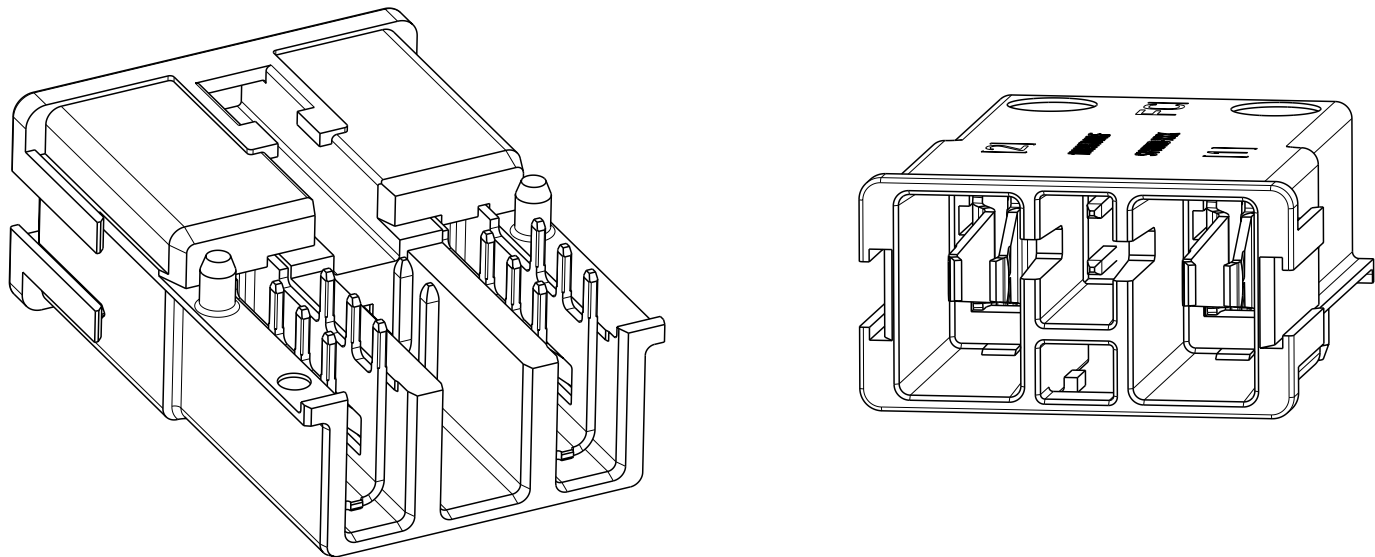
Printed: Dec 21, 2010

4

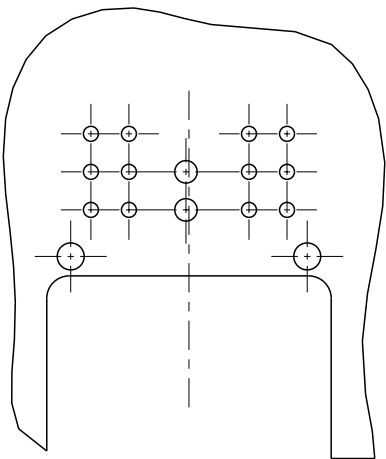
P/N 10089871-101LF,  
PIP, Enable Function (Signal Contacts Included).

A

B



RECOMMENDED PCB LAYOUT:  
PIP, Enable Function (Signal Circuit Included).



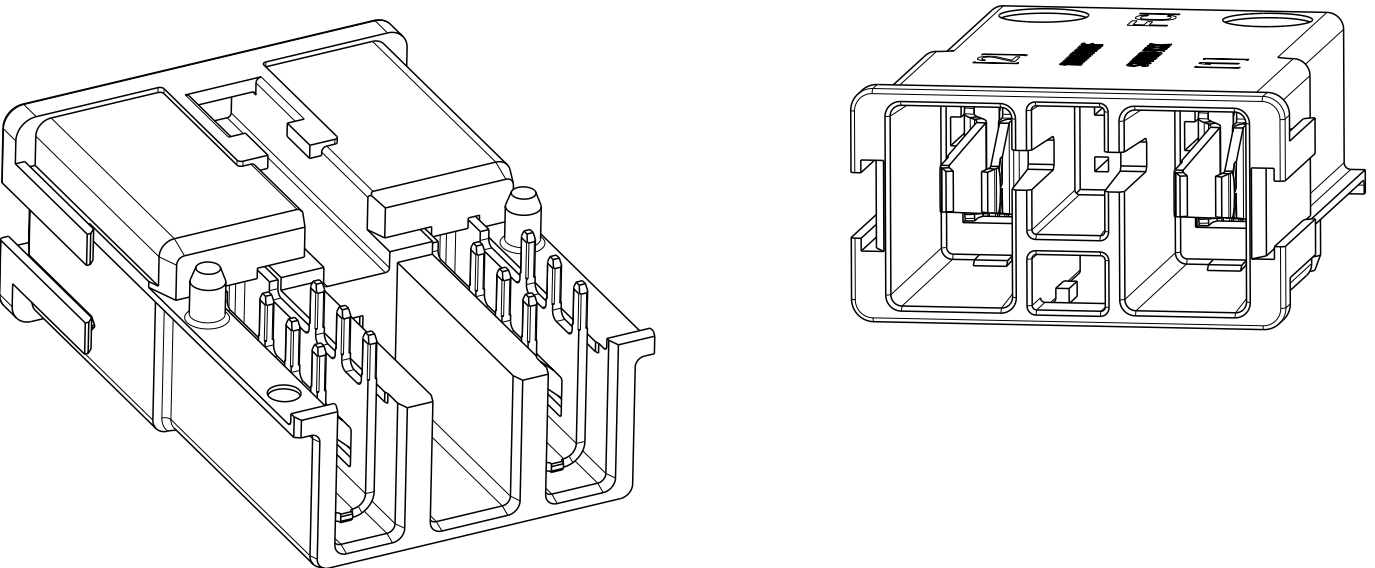
A

B

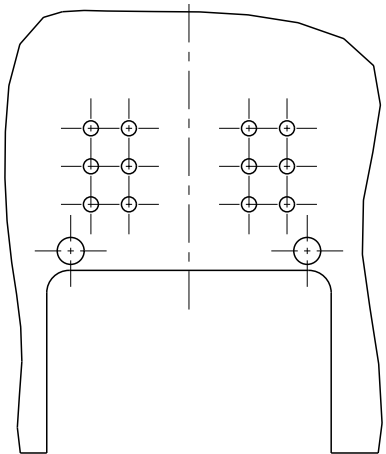
P/N 10089871-102LF,  
PIP, No Enable Function (Signal Contacts Removed).

C

D



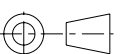
RECOMMENDED PCB LAYOUT:  
PIP, No Enable Function (Signal Circuit Removed)



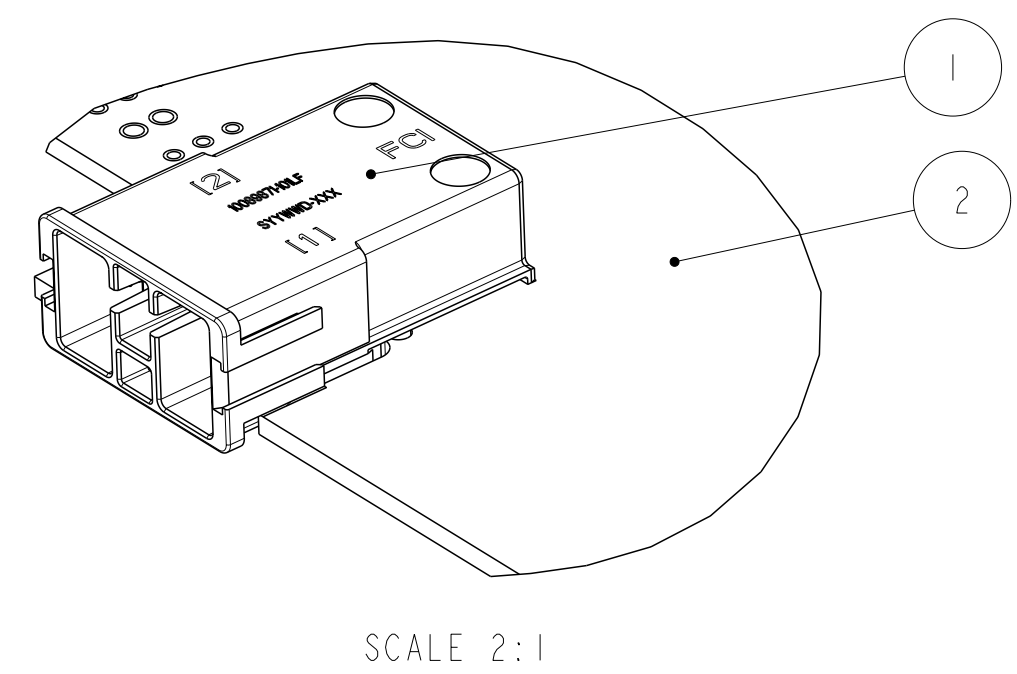
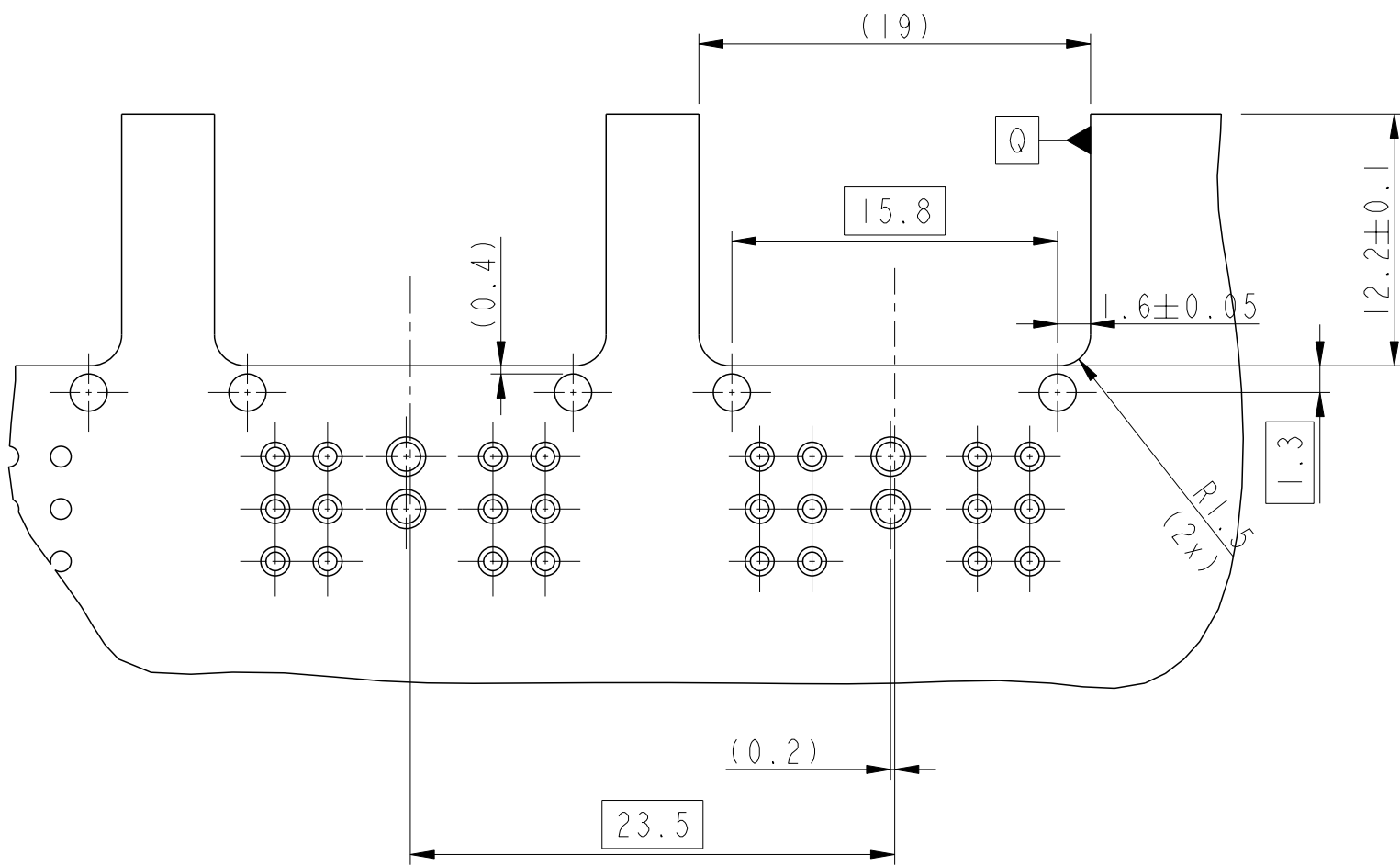
C

D

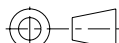
FCI  
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|                                                                                       |             |            |                                                                                                             |        |                                   |   |                                                                                                     |                                                                                             |               |
|---------------------------------------------------------------------------------------|-------------|------------|-------------------------------------------------------------------------------------------------------------|--------|-----------------------------------|---|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------|
| www.fci.com                                                                           |             |            | surface - <br>ISO 1302 |        | tolerance std<br>ISO 406 ISO 1101 |   | projection<br> | mm<br> |               |
|                                                                                       |             |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                       |        |                                   |   |                                                                                                     |                                                                                             |               |
| Dr                                                                                    | P.Poorter   | 2009-03-09 | ANGULAR                                                                                                     | LINEAR | 0.X                               | ± | size                                                                                                | Scale                                                                                       |               |
| Eng                                                                                   | J.de Bruijn | 2008-08-05 |                                                                                                             |        | 0.XX                              | ± | A3                                                                                                  | 1:1                                                                                         |               |
| Chr                                                                                   | P.Poorter   | 2009-03-12 | 0° ±°                                                                                                       |        | 0.XXX                             | ± | ECN                                                                                                 | H09-0094                                                                                    |               |
| Appr                                                                                  | J.de Bruijn | 2009-03-12 | Product family -                                                                                            |        |                                   |   | Spec ref -                                                                                          |                                                                                             |               |
|  |             | title      | PwrProfile+ Board Connector Assembly                                                                        |        |                                   |   | dwg no                                                                                              | 10089871                                                                                    | Rev.<br><br>B |
|                                                                                       |             |            | UNSHIELDED PIP VERSION                                                                                      |        |                                   |   |                                                                                                     |                                                                                             |               |
|                                                                                       |             | catalog no |                                                                                                             | -      |                                   |   |                                                                                                     | CUSTOMER COPY                                                                               | sheet 2 of 4  |

PRODUCT NUMBER  
APPLICATION FOR 10089871-101LF



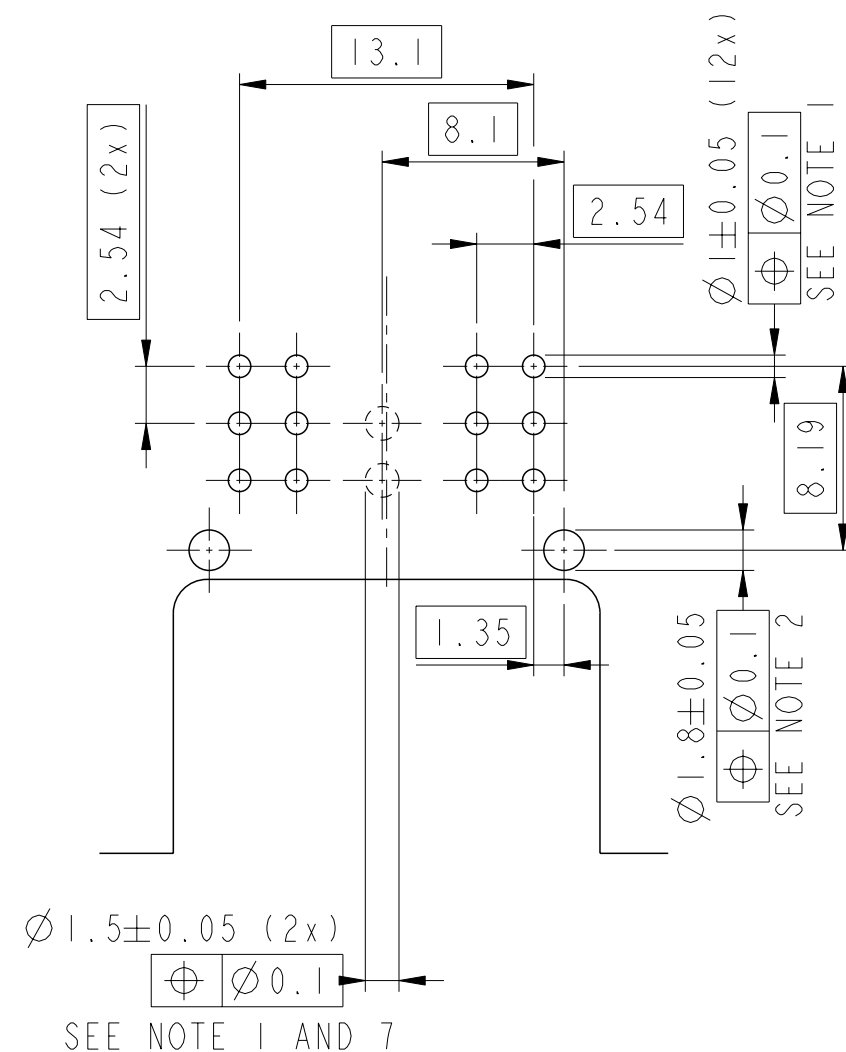
|    |                 |
|----|-----------------|
| 2  | PCB             |
| 1  | BOARD CONNECTOR |
| NO | PART NAME       |

|                                                                                       |             |            |                                                                                                 |    |                                                  |  |                                                                                                  |                    |                                                                                          |              |              |
|---------------------------------------------------------------------------------------|-------------|------------|-------------------------------------------------------------------------------------------------|----|--------------------------------------------------|--|--------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------|--------------|--------------|
| www.fci.com                                                                           |             |            | surface -  |    | tolerance std<br>ISO 1302    ISO 406    ISO 1101 |  | projection  |                    | mm  |              |              |
|                                                                                       |             |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                           |    |                                                  |  |                                                                                                  |                    |                                                                                          |              |              |
| Dr                                                                                    | P.Poorter   | 2009-03-09 | ANGULAR                                                                                         |    | LINEAR                                           |  | 0.X                                                                                              | ±                  | size<br>A3                                                                               | Scale<br>3:1 |              |
| Eng                                                                                   | J.de Bruijn | 2008-08-05 |                                                                                                 |    |                                                  |  | 0.XX                                                                                             | ±                  |                                                                                          |              |              |
| Chr                                                                                   | P.Poorter   | 2009-03-12 | 0°                                                                                              | ±° |                                                  |  | 0.XXX                                                                                            | ±                  | ECN                                                                                      | H09-0094     |              |
| Appr                                                                                  | J.de Bruijn | 2009-03-12 | Product family                                                                                  |    |                                                  |  |                                                                                                  | -                  | Spec ref                                                                                 |              | -            |
|  |             | title      | PwrProfile+ Board Connector Assembly                                                            |    |                                                  |  |                                                                                                  | dwg no<br>10089871 |                                                                                          | Rev.<br>B    |              |
|                                                                                       |             |            | UNSHIELDED PIP VERSION                                                                          |    |                                                  |  |                                                                                                  |                    |                                                                                          |              |              |
|                                                                                       |             | catalog no |                                                                                                 |    |                                                  |  | -                                                                                                |                    | CUSTOMER COPY                                                                            |              | sheet 3 of 4 |

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# PCB LAYOUT: HOLE PATTERN

PCB thickness 1.6 - 2.4 mm.

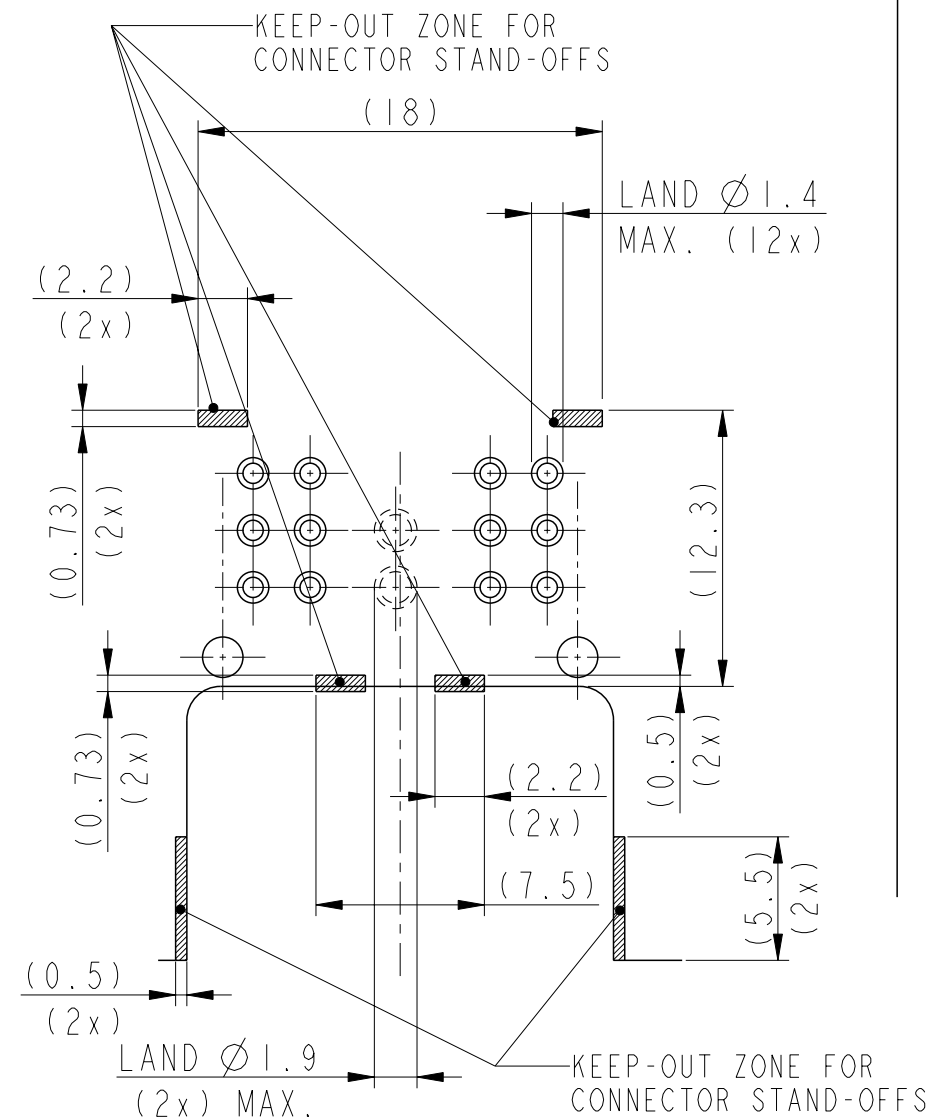


## NOTES:

- HOLE DIAMETER INCLUDES Cu PLATING
- UNPLATED HOLE
- PRODUCT SPECIFICATION: GS-12-594
- PERFORMANCE BASED CONTACT FINISH ACCORDING TO GS-12-594, SECTION 4.3
- FLAMMABILITY CLASS: UL 94-V0
- RoHS COMPLIANT
- ONLY WHEN USING PARTNUMBER 10089871-101LF.

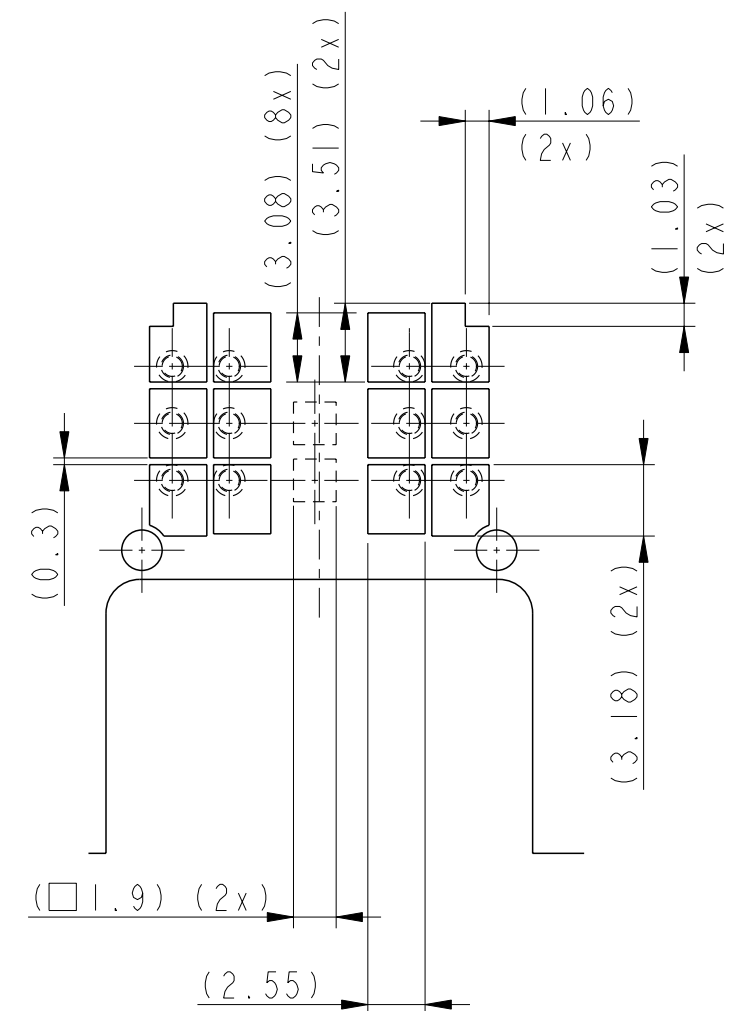
# PCB LAYOUT: PLATING

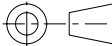
Plating thickness must be constant over the connector area.



# PCB LAYOUT : SOLDER PASTE

Assumed stencil thickness 0.10 mm (above copper tracks). The solder content in the paste should be sufficient, typically 50% volume percentage. The solder tail, PCB, stencil and application process determine the solder result. The squeegee process (angle, speed, pressure, material and number of cycles) must be optimized, so that sufficient solder is available.



|                                                                                       |             |            |                                                                                                             |        |                                   |       |                                                                                                     |              |                                                                                             |  |              |  |
|---------------------------------------------------------------------------------------|-------------|------------|-------------------------------------------------------------------------------------------------------------|--------|-----------------------------------|-------|-----------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------|--|--------------|--|
| www.fci.com                                                                           |             |            | surface - <br>ISO 1302 |        | tolerance std<br>ISO 406 ISO 1101 |       | projection<br> |              | mm<br> |  |              |  |
|                                                                                       |             |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                       |        |                                   |       |                                                                                                     |              |                                                                                             |  |              |  |
| Dr                                                                                    | P.Poorter   | 2009-03-09 | ANGULAR                                                                                                     | LINEAR | 0.X                               | ±     | size<br>A3                                                                                          | Scale<br>1:1 |                                                                                             |  |              |  |
| Eng                                                                                   | J.de Bruijn | 2008-08-05 |                                                                                                             |        | 0.XX                              | ±     |                                                                                                     |              |                                                                                             |  |              |  |
| Chr                                                                                   | P.Poorter   | 2009-03-12 |                                                                                                             |        | 0° ±°                             | 0.XXX |                                                                                                     |              | ±                                                                                           |  |              |  |
| Appr                                                                                  | J.de Bruijn | 2009-03-12 | Product family -                                                                                            |        |                                   |       |                                                                                                     | Spec ref -   |                                                                                             |  |              |  |
|  |             |            | title PwrProfile+ Board Connector Assembly<br>UNSHIELDED PIP VERSION                                        |        |                                   |       | dwg no 10089871                                                                                     |              |                                                                                             |  | Rev.<br>B    |  |
|                                                                                       |             |            |                                                                                                             |        |                                   |       |                                                                                                     |              |                                                                                             |  |              |  |
|                                                                                       |             |            | catalog no -                                                                                                |        |                                   |       | CUSTOMER COPY                                                                                       |              |                                                                                             |  | sheet 4 of 4 |  |