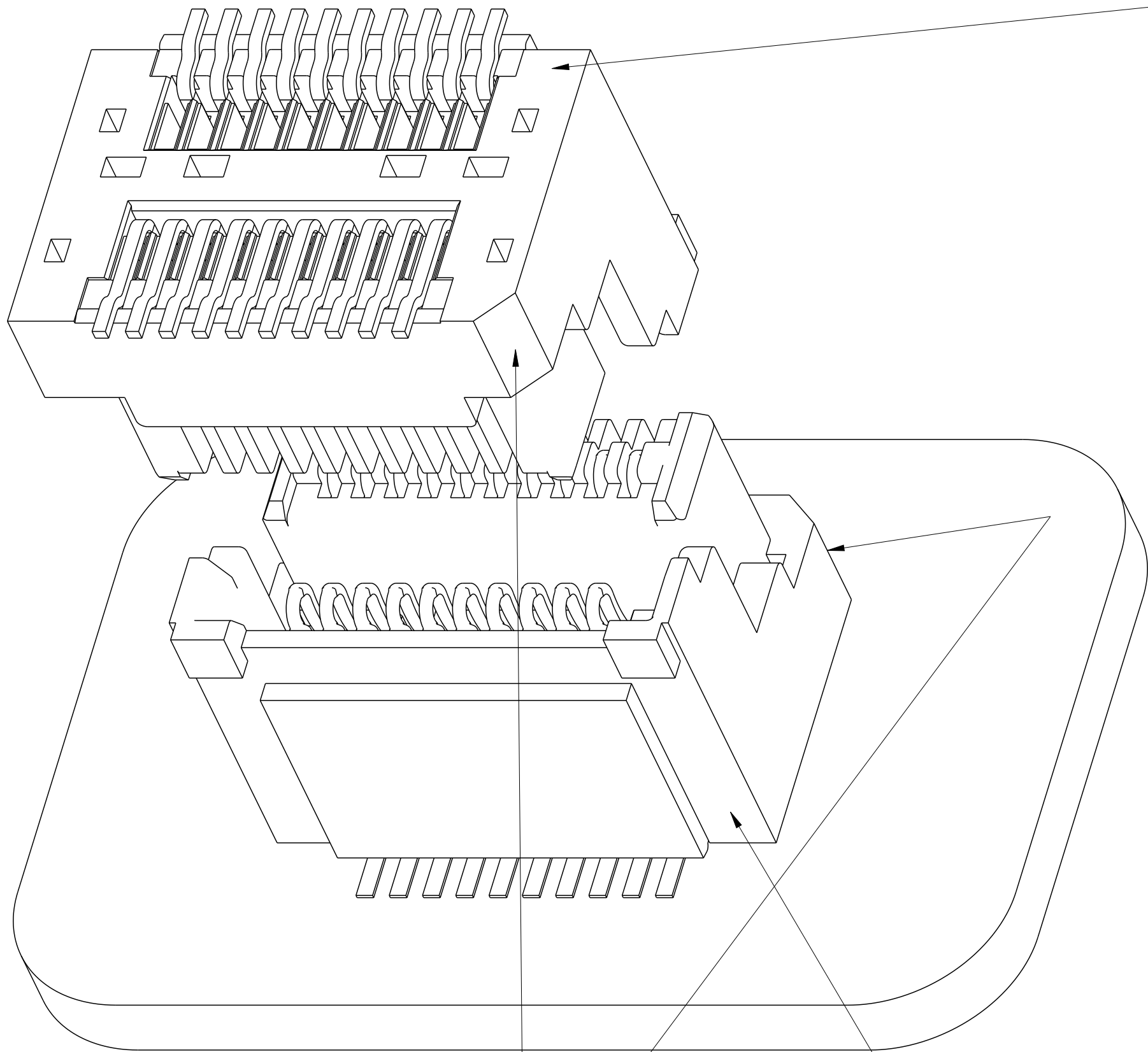
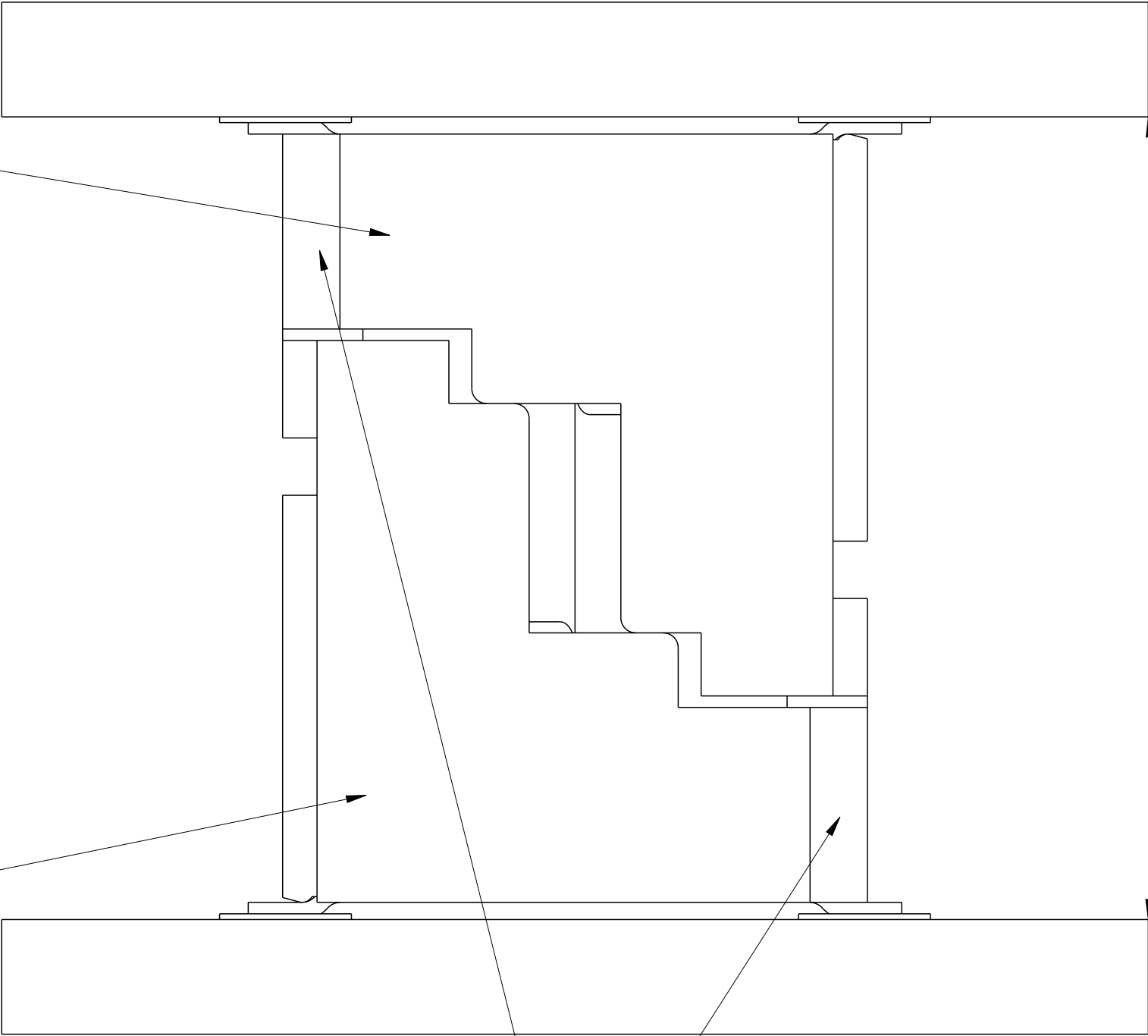


|                   |
|-------------------|
| PRODUCT NUMBER    |
| 10106814-0XX0X2LF |



10106814-0XX0X2LF  
HERMAPHRODITIC CONNECTOR  
ASSEMBLY



PRINTED  
CIRCUIT  
BOARD

CONNECTOR ORIENTATION  
FEATURE  
SEE PCB LAYOUT ON PAGE 5

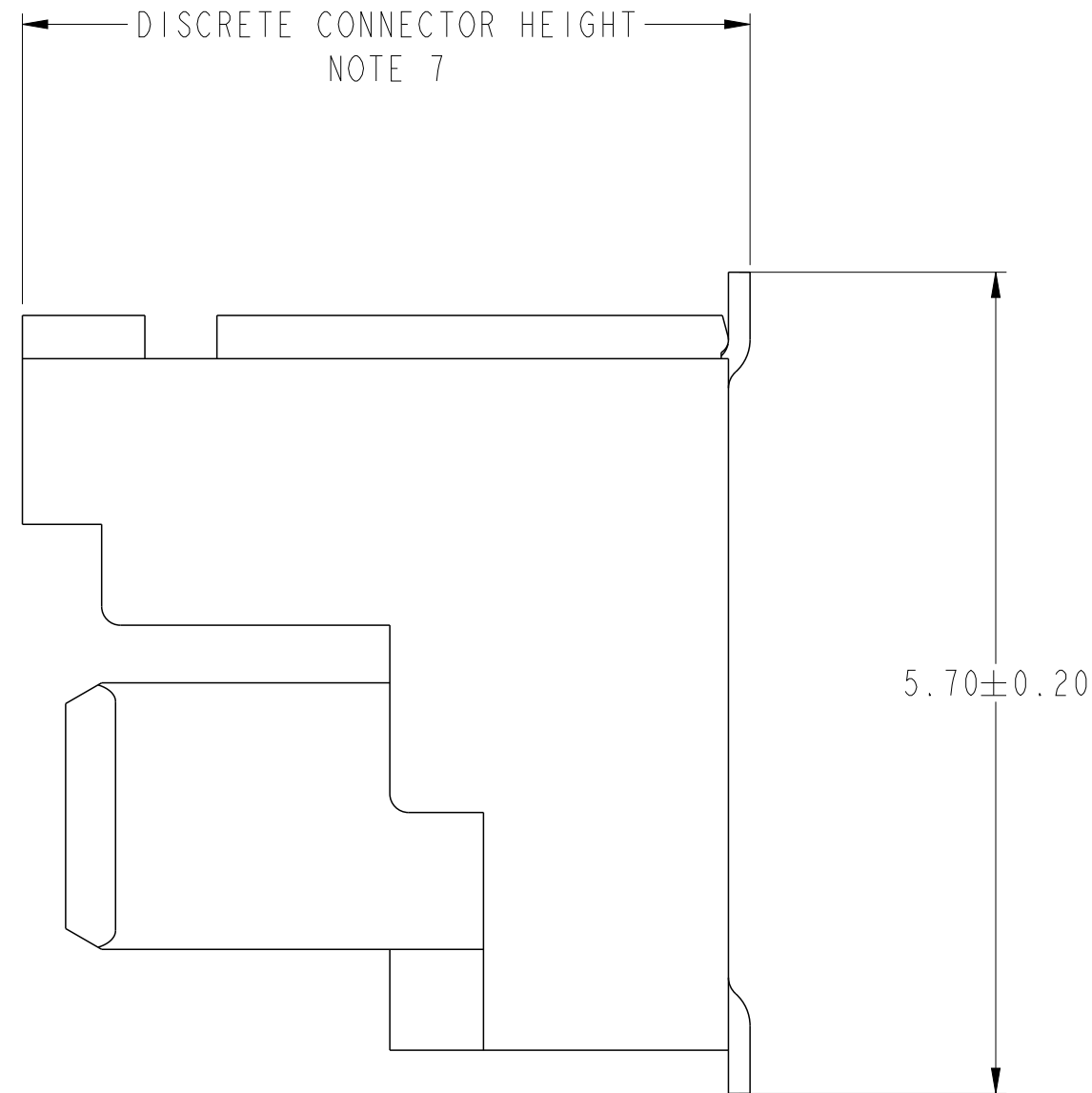
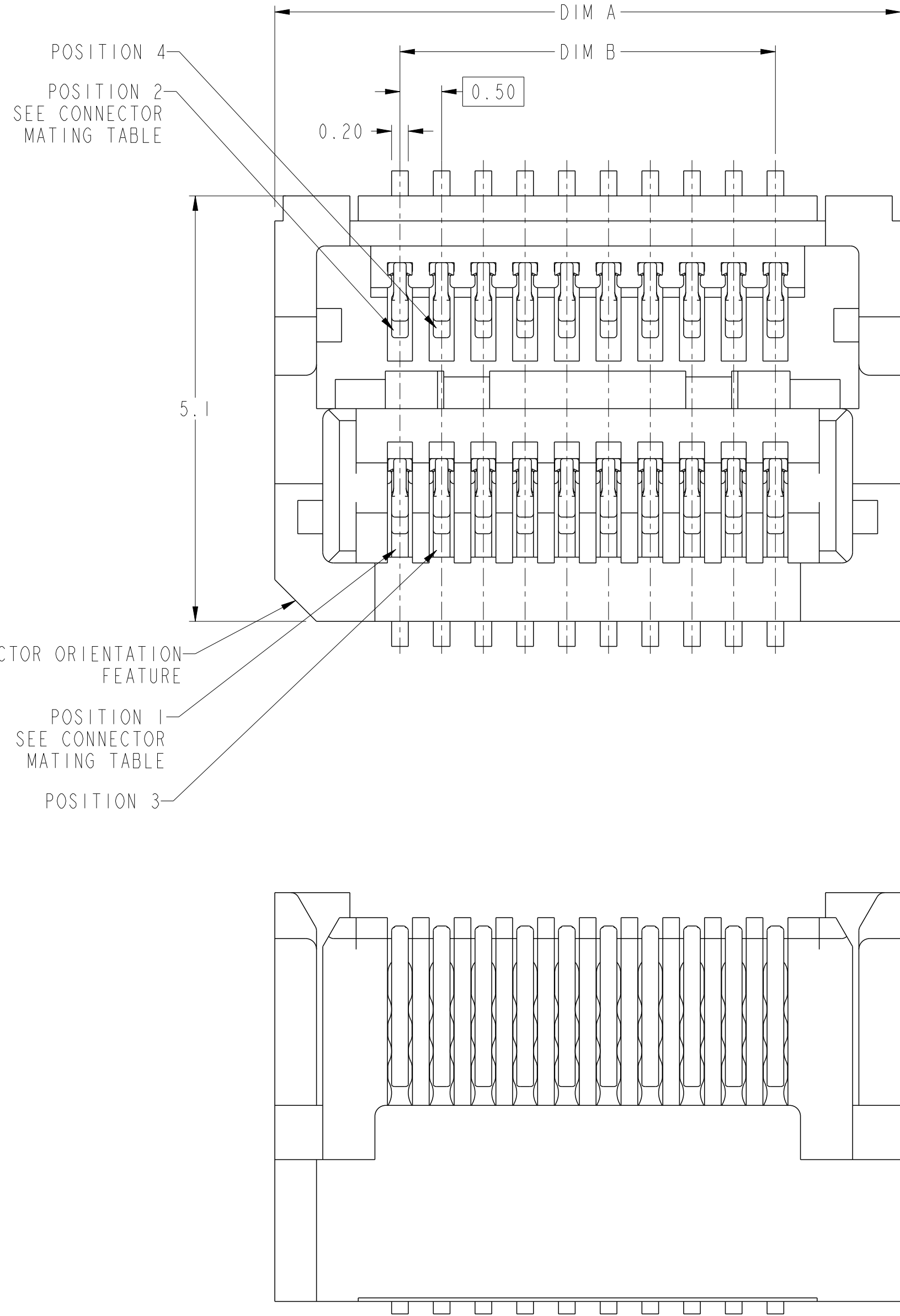
10106814-0XX0X2LF  
HERMAPHRODITIC CONNECTOR  
ASSEMBLY

CONNECTOR ORIENTATION  
FEATURE  
SEE PCB LAYOUT ON PAGE 5



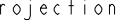
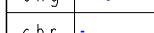
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|                                                                               |            |            |                |            |                |             |           |                |                        |              |
|-------------------------------------------------------------------------------|------------|------------|----------------|------------|----------------|-------------|-----------|----------------|------------------------|--------------|
| spec ref                                                                      | ---        | dr         | Stu Stoner     | 2010/11/22 | projection     | mm          | size      | A2             | scale                  | 20:1         |
| tolerance std                                                                 | ASME Y14.5 | eng        | Andy Lu        | 2015/07/15 | chr            | -           | ecn no    | ELX-DG-21387-1 | rel level              | Released     |
| surface                                                                       | ✓          | appr       | Pei-Ming Zheng | 2015/07/15 | product family | MezzoStak   | rel level | Released       | rev                    | D            |
| linear                                                                        | 0.X ±0.3   | 0.XX ±0.15 | 0.XXX ±0.05    | angular    | 0° ±3°         | www.fci.com | cat. no.  | -              | Product - Customer Drw | sheet 1 of 8 |
| HERMAPHRODITIC CONNECTOR, SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT |            |            |                |            |                |             |           |                |                        |              |



| HERMAPHRODITIC CONNECTOR MATING |                               |
|---------------------------------|-------------------------------|
| CONNECTOR POSITION              | MATES WITH CONNECTOR POSITION |
| 1                               | 2                             |
| 3                               | 4                             |
| 5                               | 6                             |
| 7                               | 8                             |
| 9                               | 10                            |
| ETC.                            |                               |

10106814-024002LF SHOWN  
WITHOUT STANDARD PICK-UP CAP

|               |  |                                                                                       |  |        |  |                |  |             |  |                                                                                       |  |                                                                                       |  |                                                                              |  |                |  |              |  |          |  |   |  |
|---------------|--|---------------------------------------------------------------------------------------|--|--------|--|----------------|--|-------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|----------------|--|--------------|--|----------|--|---|--|
| spec ref      |  | ---                                                                                   |  | dr     |  | Stu Stoner     |  | 2010/11/22  |  | projection                                                                            |  |  |  | size                                                                         |  | A2             |  | scale        |  | 20:1     |  |   |  |
| tolerance std |  | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                 |  | eng    |  | Andy Lu        |  | 2015/07/15  |  |  |  |  |  | ecn no                                                                       |  | ELX-DG-21387-1 |  | rel level    |  | Released |  |   |  |
| ASME Y14.5    |  |                                                                                       |  | chr    |  | -              |  | -           |  |                                                                                       |  |                                                                                       |  | product family                                                               |  | MezzoStak      |  |              |  |          |  |   |  |
|               |  |                                                                                       |  | appr   |  | Pei-Ming Zheng |  | 2015/07/15  |  |                                                                                       |  |                                                                                       |  |                                                                              |  |                |  |              |  |          |  |   |  |
| surface       |  |  |  | linear |  | 0.X            |  | ±0.3        |  |  |  | title                                                                                 |  | HERMAPHRODITIC CONNECTOR,SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT |  | dwg no         |  | 10106814     |  | rev      |  | D |  |
|               |  |                                                                                       |  | 0.XX   |  | ±0.15          |  |             |  |                                                                                       |  |                                                                                       |  |                                                                              |  |                |  |              |  |          |  |   |  |
|               |  |                                                                                       |  | 0.XXX  |  | ±0.05          |  |             |  |                                                                                       |  |                                                                                       |  |                                                                              |  |                |  |              |  |          |  |   |  |
| ASME Y14.5    |  | angular                                                                               |  | 0°     |  | ±3°            |  | www.fci.com |  | cat. no.                                                                              |  | -                                                                                     |  | Product - Customer Drw                                                       |  |                |  | sheet 2 of 8 |  |          |  |   |  |



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0.5 BTB HERMAPHRODITIC CONNECTOR ASSEMBLY PART NUMBER SCHEME  
EXAMPLE: 10106814-XX X X X 2 LF

| NUMBER OF POSITIONS |
|---------------------|
| 02 = 20 POS         |
| 03 = 30 POS         |
| 04 = 40 POS         |
| 05 = 50 POS         |
| 06 = 60 POS         |
| 07 = 70 POS         |
| 08 = 80 POS         |
| 09 = 90 POS         |

| PRACTICAL CONNECTOR HEIGHT<br>NOTE 8 |
|--------------------------------------|
| 1 = 2.0MM                            |
| 2 = 2.5MM                            |
| 3 = 3.0MM                            |
| 4 = 3.5MM                            |

LEAD FREE INDICATOR

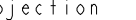
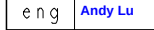
| PACKAGING |                                   |
|-----------|-----------------------------------|
| 2         | TAPE AND REEL<br>WITH PICK-UP CAP |

| CONTACT PLATING |                                                                      |
|-----------------|----------------------------------------------------------------------|
| 0               | GENERAL PLATING PER PERFORMANCE<br>REQUIRED BY PRODUCT SPECIFICATION |
| 1               | 30u" GXT(SPECIAL)                                                    |

PEG OPTION

|             |
|-------------|
| 0 = NO PEGS |
| 2 = PEGS    |

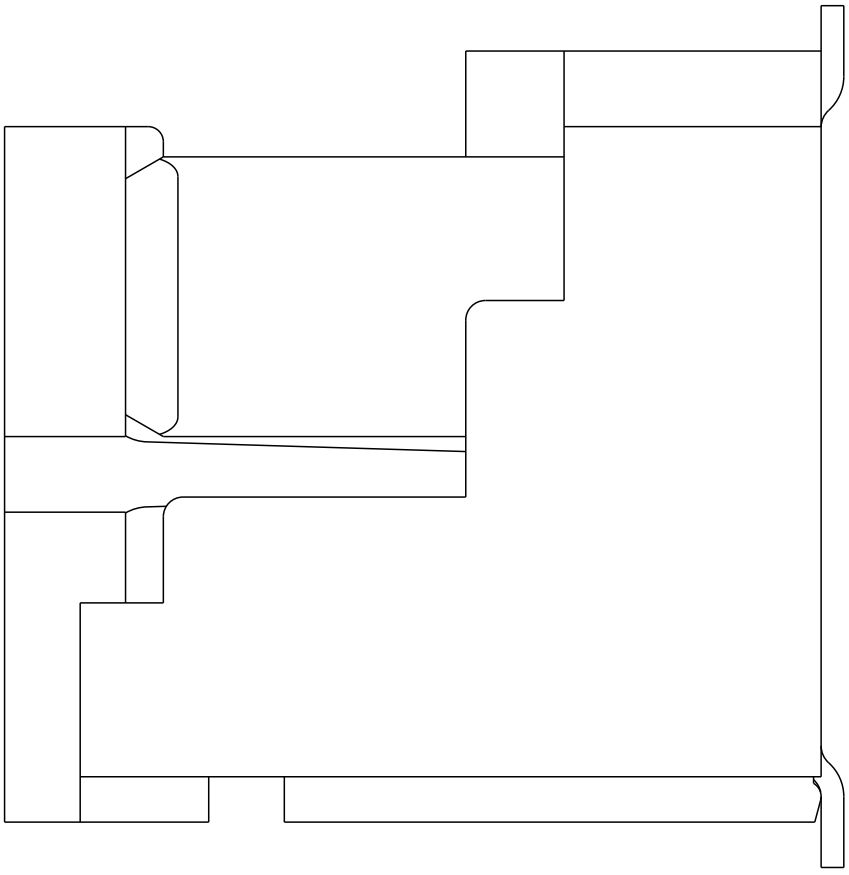
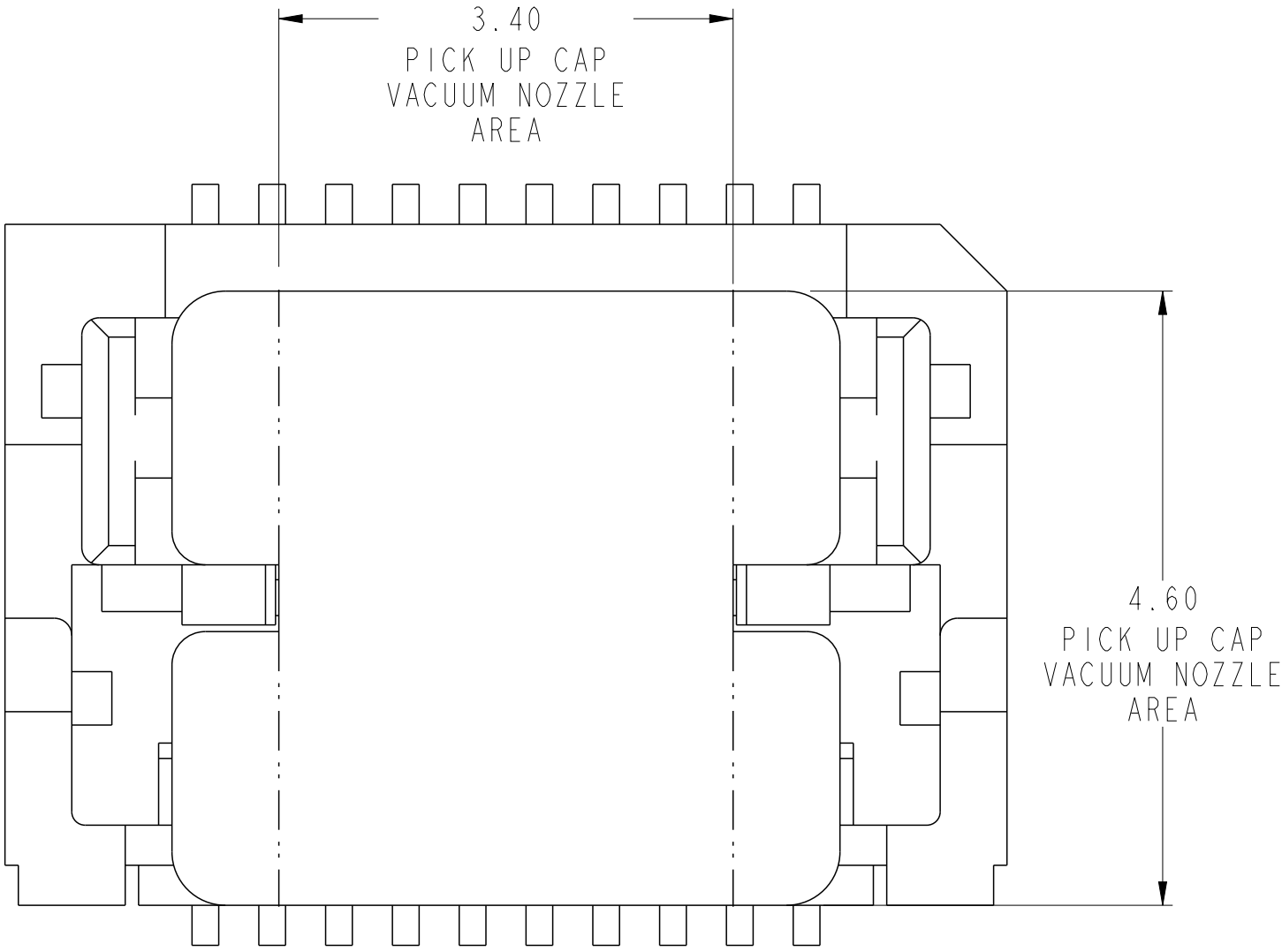
| PRODUCT NUMBER    | NUMBER OF POSTIONS | DIM A | DIM B | DISCRETE CONNECTOR HEIGHT<br>NOTE 9 | PRACTICAL CONNECTOR HEIGHT<br>NOTE 8 | STATUS      |
|-------------------|--------------------|-------|-------|-------------------------------------|--------------------------------------|-------------|
| 10106814-021002LF | 20                 | 7.5   | 4.5   | 3.55                                | 2.00                                 | RELEASED    |
| 10106814-031002LF | 30                 | 10.0  | 7.0   |                                     |                                      |             |
| 10106814-041002LF | 40                 | 12.5  | 9.5   |                                     |                                      |             |
| 10106814-051002LF | 50                 | 15.0  | 12.0  |                                     |                                      |             |
| 10106814-061002LF | 60                 | 17.5  | 14.5  |                                     |                                      |             |
| 10106814-071002LF | 70                 | 20.0  | 17.0  | 4.05                                | 2.50                                 | UN-RELEASED |
| 10106814-022002LF | 20                 | 7.5   | 4.5   |                                     |                                      |             |
| 10106814-032002LF | 30                 | 10.0  | 7.0   |                                     |                                      |             |
| 10106814-042002LF | 40                 | 12.5  | 9.5   |                                     |                                      |             |
| 10106814-052002LF | 50                 | 15.0  | 12.0  |                                     |                                      |             |
| 10106814-062002LF | 60                 | 17.5  | 14.5  | 4.55                                | 3.00                                 | RELEASED    |
| 10106814-072002LF | 70                 | 20.0  | 17.0  |                                     |                                      |             |
| 10106814-023002LF | 20                 | 7.5   | 4.5   |                                     |                                      |             |
| 10106814-033002LF | 30                 | 10.0  | 7.0   |                                     |                                      |             |
| 10106814-043002LF | 40                 | 12.5  | 9.5   |                                     |                                      |             |
| 10106814-053002LF | 50                 | 15.0  | 12.0  |                                     |                                      |             |
| 10106814-063002LF | 60                 | 17.5  | 14.5  |                                     |                                      |             |
| 10106814-073002LF | 70                 | 20.0  | 17.0  |                                     |                                      |             |
| 10106814-083002LF | 80                 | 22.5  | 19.5  |                                     |                                      | UN-RELEASED |
| 10106814-083202LF | 80                 | 22.5  | 19.5  |                                     |                                      | UN-RELEASED |
| 10106814-093002LF | 90                 | 25.0  | 22.0  | 5.05                                | 3.50                                 | RELEASED    |
| 10106814-093012LF | 90                 | 25.0  | 22.0  |                                     |                                      | RELEASED    |
| 10106814-093202LF | 90                 | 25.0  | 22.0  |                                     |                                      | RELEASED    |
| 10106814-024002LF | 20                 | 7.5   | 4.5   |                                     |                                      | RELEASED    |
| 10106814-034002LF | 30                 | 10.0  | 7.0   |                                     |                                      |             |
| 10106814-044002LF | 40                 | 12.5  | 9.5   |                                     |                                      |             |
| 10106814-054002LF | 50                 | 15.0  | 12.0  |                                     |                                      |             |
| 10106814-064002LF | 60                 | 17.5  | 14.5  |                                     |                                      |             |
| 10106814-074002LF | 70                 | 20.0  | 17.0  |                                     |                                      |             |

|               |  |                                                                                       |  |         |  |                |  |            |  |                                                                                       |  |                                                                                       |  |                                       |  |                                      |  |              |  |          |  |     |  |   |  |
|---------------|--|---------------------------------------------------------------------------------------|--|---------|--|----------------|--|------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------|--|--------------------------------------|--|--------------|--|----------|--|-----|--|---|--|
| spec ref      |  | ---                                                                                   |  | dr      |  | Stu Stoner     |  | 2010/11/22 |  | projection                                                                            |  |  |  | size                                  |  | A2                                   |  | scale        |  | 10:1     |  |     |  |   |  |
| tolerance std |  | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                 |  | eng     |  | Andy Lu        |  | 2015/07/15 |  | chr                                                                                   |  | -                                                                                     |  | ecn no                                |  | ELX-DG-21387-1                       |  |              |  |          |  |     |  |   |  |
| ASME Y14.5    |  |                                                                                       |  | appr    |  | Pei-Ming Zheng |  | 2015/07/15 |  | product family                                                                        |  | MezzoStak                                                                             |  | rel level                             |  | Released                             |  |              |  |          |  |     |  |   |  |
| surface       |  |  |  | linear  |  | 0.X            |  | ±0.3       |  |  |  | title                                                                                 |  | HERMAPHRODITIC CONNECTOR, SHORT STYLE |  | 20-90 POS, 0.5MM CTR, 4-7MM STACK HT |  | dwg no       |  | 10106814 |  | rev |  | D |  |
|               |  |                                                                                       |  | 0.XX    |  | ±0.15          |  |            |  |                                                                                       |  |                                                                                       |  |                                       |  |                                      |  |              |  |          |  |     |  |   |  |
|               |  |                                                                                       |  | 0.XXX   |  | ±0.05          |  |            |  |                                                                                       |  |                                                                                       |  |                                       |  |                                      |  |              |  |          |  |     |  |   |  |
| ASME Y14.5    |  |                                                                                       |  | angular |  | 0°             |  | ±3°        |  | www.fci.com                                                                           |  | cat. no.                                                                              |  | -                                     |  | Product - Customer Drw               |  | sheet 3 of 8 |  |          |  |     |  |   |  |

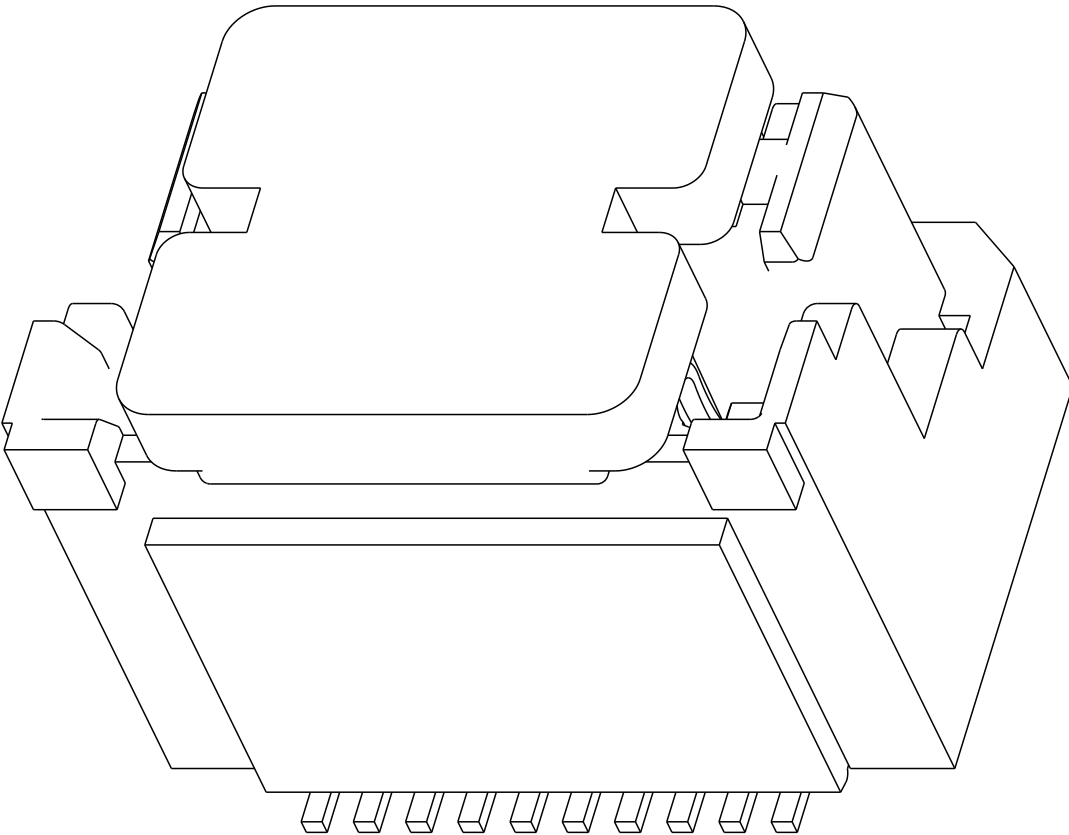
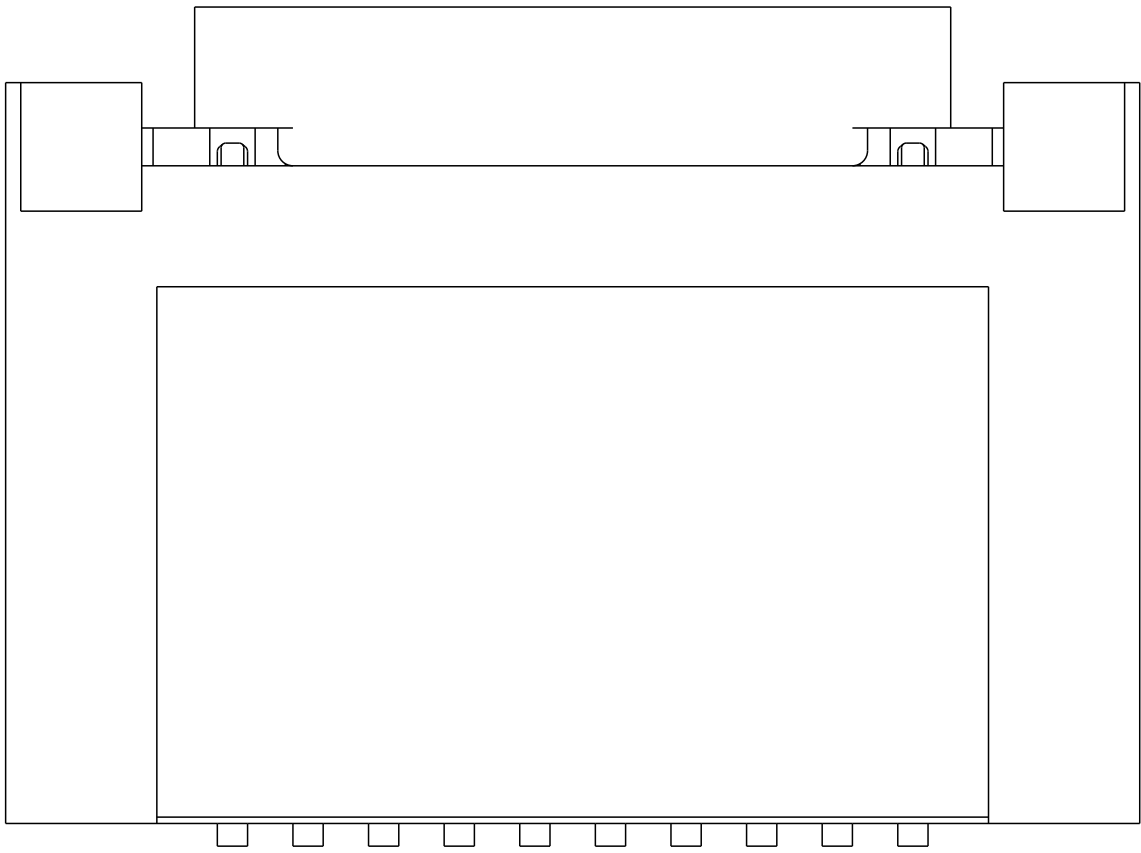
PDS: Rev :D

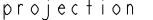
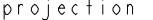
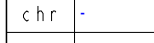
STATUS:Released

Printed: Jul 16, 2015



10106814-024002LF SHOWN  
WITH STANDARD PICK-UP CAP



|               |  |                                       |  |         |  |                |  |            |  |                                                                                       |  |                                                                                       |  |                                                                               |  |                        |  |              |  |          |  |                |  |
|---------------|--|---------------------------------------|--|---------|--|----------------|--|------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------|--|------------------------|--|--------------|--|----------|--|----------------|--|
| spec ref      |  | ---                                   |  | dr      |  | Stu Stoner     |  | 2010/11/22 |  | projection                                                                            |  |  |  | mm                                                                            |  | size                   |  | A2           |  | scale    |  | 20:1           |  |
| tolerance std |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  | eng     |  | Andy Lu        |  | 2015/07/15 |  |  |  |  |  | ecn no                                                                        |  | ELX-DG-21387-1         |  | rel level    |  | Released |  |                |  |
| ASME Y14.5    |  |                                       |  | chr     |  | -              |  |            |  |                                                                                       |  |                                                                                       |  |                                                                               |  |                        |  |              |  |          |  |                |  |
|               |  |                                       |  | appr    |  | Pei-Ming Zheng |  | 2015/07/15 |  |                                                                                       |  |                                                                                       |  |                                                                               |  |                        |  |              |  |          |  | product family |  |
| surface       |  | - /                                   |  | linear  |  | 0.X            |  | ±0.3       |  |  |  | title                                                                                 |  | HERMAPHRODITIC CONNECTOR, SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT |  | dwg no                 |  | 10106814     |  | rev      |  | D              |  |
|               |  |                                       |  | 0.XX    |  | ±0.15          |  |            |  |                                                                                       |  |                                                                                       |  |                                                                               |  |                        |  |              |  |          |  |                |  |
| ASME Y14.5    |  |                                       |  | 0.XXX   |  | ±0.05          |  |            |  |                                                                                       |  |                                                                                       |  |                                                                               |  |                        |  |              |  |          |  |                |  |
|               |  |                                       |  | angular |  | 0°             |  | ±3°        |  | www.fci.com                                                                           |  | cat. no.                                                                              |  | -                                                                             |  | Product - Customer Drw |  | sheet 4 of 8 |  |          |  |                |  |





1

2

3

4

5

6

7

8

A

B

C

D

E

F

A

B

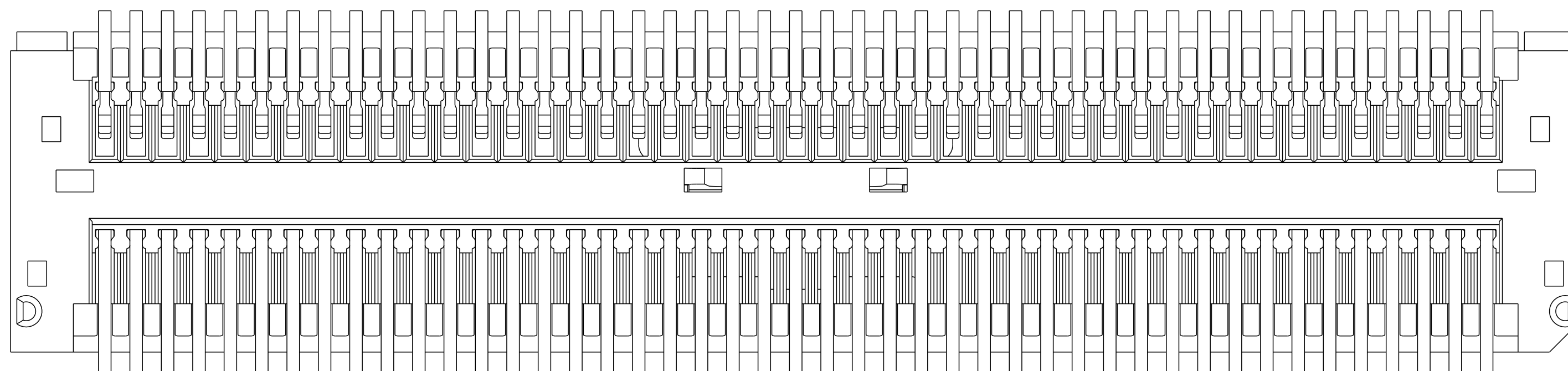
C

D

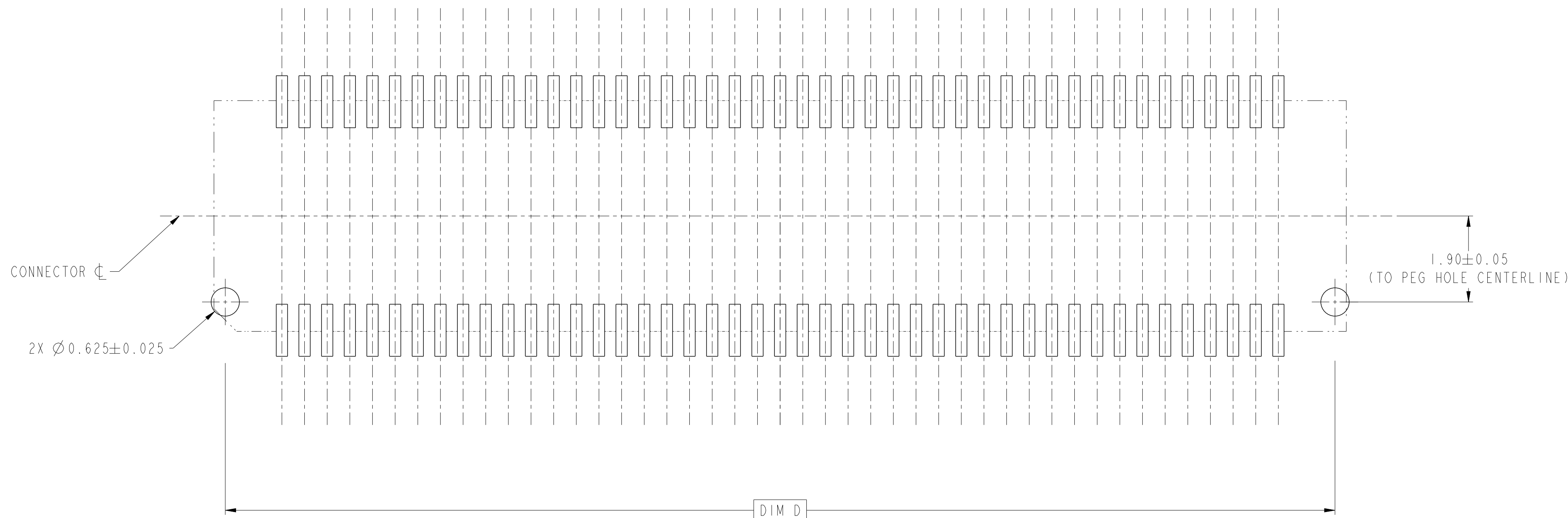
E

F

10106814-0932X2LF SHOWN



SCALE 15:1

2X (Ø0.50) PEGS FEATURE  
ONLY FOR 10106814-083202LF  
AND 10106814-093202LFPCB LAYOUT FOR 10106814-083202LF AND 10106814-093202LF  
OTHER DIMENSIONS, SEE SHEET 5 AND 6

SCALE 15:1

|               |            |      |                        |              |                |            |        |                                       |           |          |
|---------------|------------|------|------------------------|--------------|----------------|------------|--------|---------------------------------------|-----------|----------|
| spec ref      | ---        | dr   | Stu Stoner             | 2010/11/22   | projection     | mm         | size   | A2                                    | scale     | 10:1     |
| tolerance std | ASME Y14.5 | eng  | Andy Lu                | 2015/07/15   | chr            | -          | ecn no | ELX-DG-21387-1                        | rel level | Released |
| surface       | ✓          | appr | Pei-Ming Zheng         | 2015/07/15   | product family | MezzoStack | title  | HERMAPHRODITIC CONNECTOR, SHORT STYLE | dwg no    | 10106814 |
| ASME Y14.5    | linear     | 0.X  | ±0.3                   | 0.XX         | ±0.15          | 0.XXX      | ±0.05  | angular                               | 0°        | ±3°      |
| www.fci.com   | cat. no.   | -    | Product - Customer Drw | sheet 7 of 8 | rev            | D          |        |                                       |           |          |

PDS: Rev :D

STATUS:Released

Printed: Jul 16, 2015

2

3

4

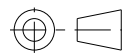
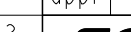
5



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NOTES

- 1 - MATERIAL:  
HOUSING - HIGH-TEMPERATURE THERMOPLASTIC, UL94-V0, COLOR: BLACK  
CONTACTS: COPPER ALLOY  
CONTACT PLATING:  
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION.  
SOLDER TAILS: GOLD FLASH.
- 2 - RECOMMENDED LEAD FREE SOLDER PASTE THICKNESS 150µm.
- 3 - THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 30 SECONDS IN A CONVECTION INFRA RED OR VAPOR PHASE REFLOW OVEN.
- 4 - THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGUGULATION AS DESCRIBED IN GS-22-008
- 5 - PACKAGING TAPE AND REEL. PACKAGING SPECIFICATION GS-14-1320, PRODUCT SPECIFICATION GS-12-1322.
- 6 - PRACTICAL CONNECTOR HEIGHT AS SPECIFIED IN THE TABLE IS NOT THE DIMENSIONAL HEIGHT OF THE CONNECTOR BUT THE HEIGHT AS IT PERTAINS TO TOTAL STACK HEIGHT. AN EXAMPLE IS A CONNECTOR WITH A 2.5MM PRACTICAL CONNECTOR HEIGHT, WHEN MATED TO ITSELF WILL RESULTING IN A BOARD TO BOARD STACK HEIGHT OF 5MM.
- 7 - DISCRETE CONNECTOR HEIGHT AS SHOWN IN THE TABLE IS THE ACTUAL DIMENSIONAL CONNECTOR HEIGHT. ALSO SEE INFORMATION ON PRACTICAL HEIGHT IN NOTE 6.
- 8 - REFER TO IPC 7525-A FOR STENCIL CREATION.

|               |  |                                                                                       |  |                                       |  |       |  |            |  |                                                                                       |  |                |  |                                                                                       |  |                        |  |           |  |                |  |              |  |      |  |  |  |     |  |   |  |
|---------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------|--|-------|--|------------|--|---------------------------------------------------------------------------------------|--|----------------|--|---------------------------------------------------------------------------------------|--|------------------------|--|-----------|--|----------------|--|--------------|--|------|--|--|--|-----|--|---|--|
| spec ref      |  |                                                                                       |  | ---                                   |  | dr    |  | Stu Stoner |  | 2010/11/22                                                                            |  | projection     |  |  |  | mm                     |  | size      |  | A2             |  | scale        |  | 20:1 |  |  |  |     |  |   |  |
| tolerance std |  |                                                                                       |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  |       |  |            |  | eng                                                                                   |  | Andy Lu        |  | 2015/07/15                                                                            |  |                        |  | ecn no    |  | ELX-DG-21387-1 |  |              |  |      |  |  |  |     |  |   |  |
| ASME Y14.5    |  |                                                                                       |  |                                       |  |       |  |            |  | chr                                                                                   |  | -              |  |                                                                                       |  |                        |  |           |  | rel level      |  | Released     |  |      |  |  |  |     |  |   |  |
|               |  |                                                                                       |  |                                       |  |       |  |            |  | appr                                                                                  |  | Pei-Ming Zheng |  | 2015/07/15                                                                            |  | product family         |  | MezzoStak |  |                |  |              |  |      |  |  |  |     |  |   |  |
| surface       |  |  |  | linear                                |  | 0.X   |  | ±0.3       |  |  |  | title          |  | HERMAPHRODITIC CONNECTOR,SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT          |  |                        |  |           |  | dwg no         |  | 10106814     |  |      |  |  |  | rev |  | D |  |
|               |  |                                                                                       |  | 0.XX                                  |  | ±0.15 |  |            |  |                                                                                       |  |                |  |                                                                                       |  |                        |  |           |  |                |  |              |  |      |  |  |  |     |  |   |  |
|               |  |                                                                                       |  | 0.XXX                                 |  | ±0.05 |  |            |  |                                                                                       |  |                |  |                                                                                       |  |                        |  |           |  |                |  |              |  |      |  |  |  |     |  |   |  |
| ASME Y14.5    |  |                                                                                       |  | angular                               |  | 0°    |  | ±3°        |  | www.fci.com                                                                           |  | cat. no.       |  | -                                                                                     |  | Product - Customer Drw |  |           |  |                |  | sheet 8 of 8 |  |      |  |  |  |     |  |   |  |