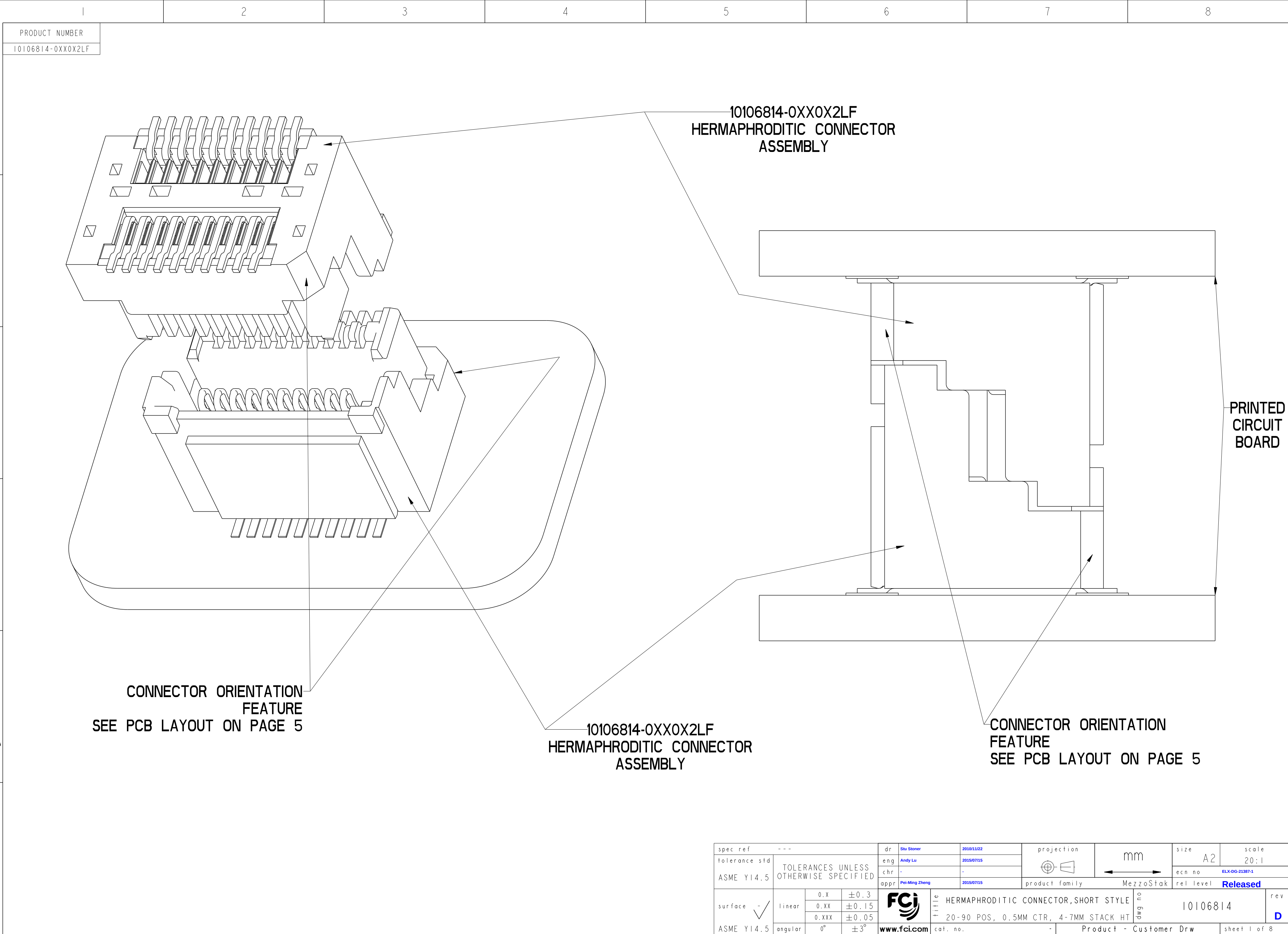




|                   |
|-------------------|
| PRODUCT NUMBER    |
| 10106814-0XX0X2LF |

10106814-0XX0X2LF  
HERMAPHRODITIC CONNECTOR  
ASSEMBLY

PRINTED  
CIRCUIT  
BOARD

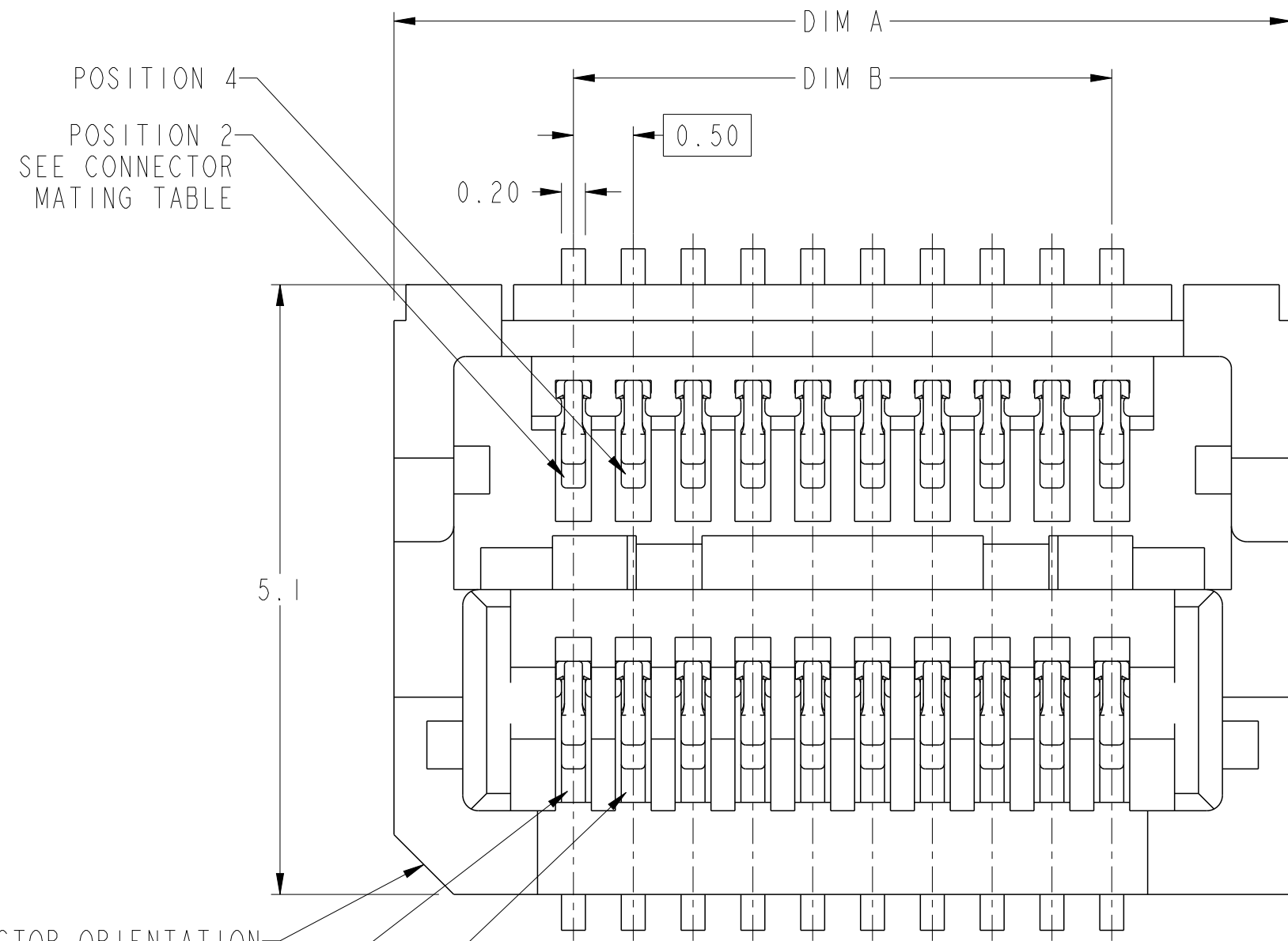
CONNECTOR ORIENTATION  
FEATURE  
SEE PCB LAYOUT ON PAGE 5

10106814-0XX0X2LF  
HERMAPHRODITIC CONNECTOR  
ASSEMBLY

CONNECTOR ORIENTATION  
FEATURE  
SEE PCB LAYOUT ON PAGE 5

FCI  
Copyright FCI.

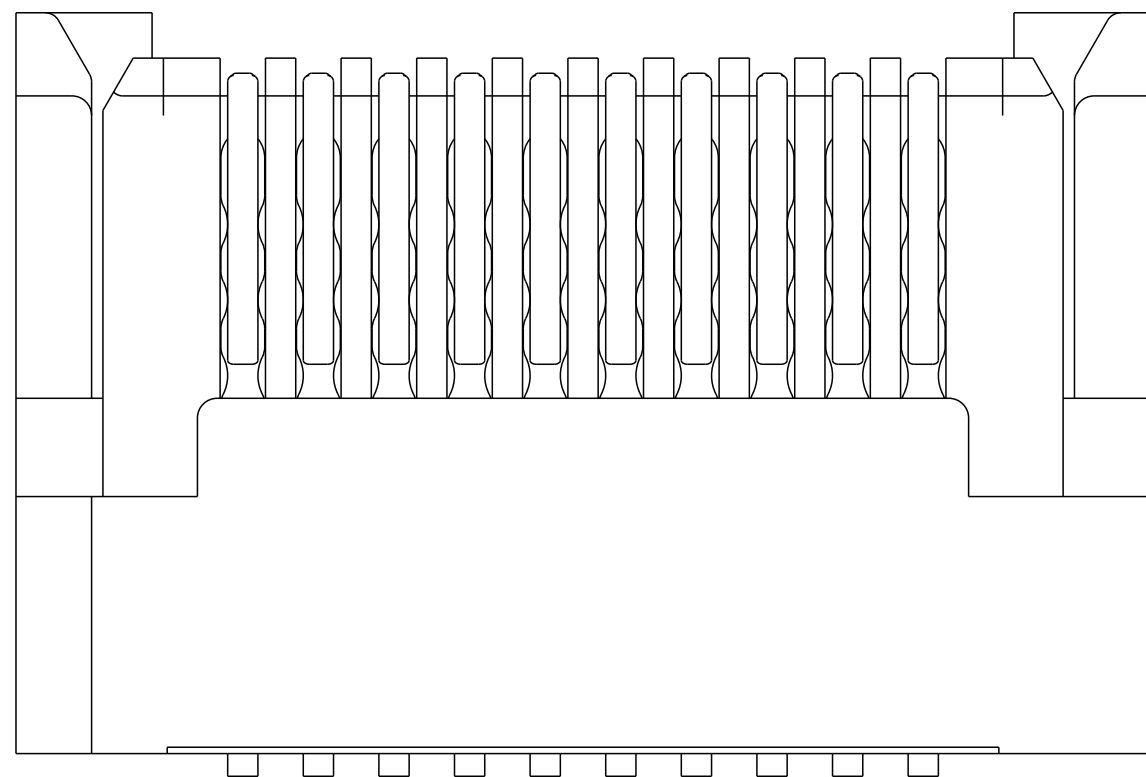
|               |  |                                       |  |         |  |                |  |            |  |             |  |                                                                               |  |                |  |                        |  |              |  |          |  |
|---------------|--|---------------------------------------|--|---------|--|----------------|--|------------|--|-------------|--|-------------------------------------------------------------------------------|--|----------------|--|------------------------|--|--------------|--|----------|--|
| 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     |  | -              |  | -          |  |             |  |                                                                               |  | product family |  | MezzoStak              |  |              |  |          |  |
|               |  |                                       |  | appr    |  | Pei-Ming Zheng |  | 2015/07/15 |  |             |  |                                                                               |  |                |  |                        |  |              |  |          |  |
| surface       |  | ✓                                     |  | linear  |  | 0.X            |  | ±0.3       |  |             |  | 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 1 of 8 |  |          |  |



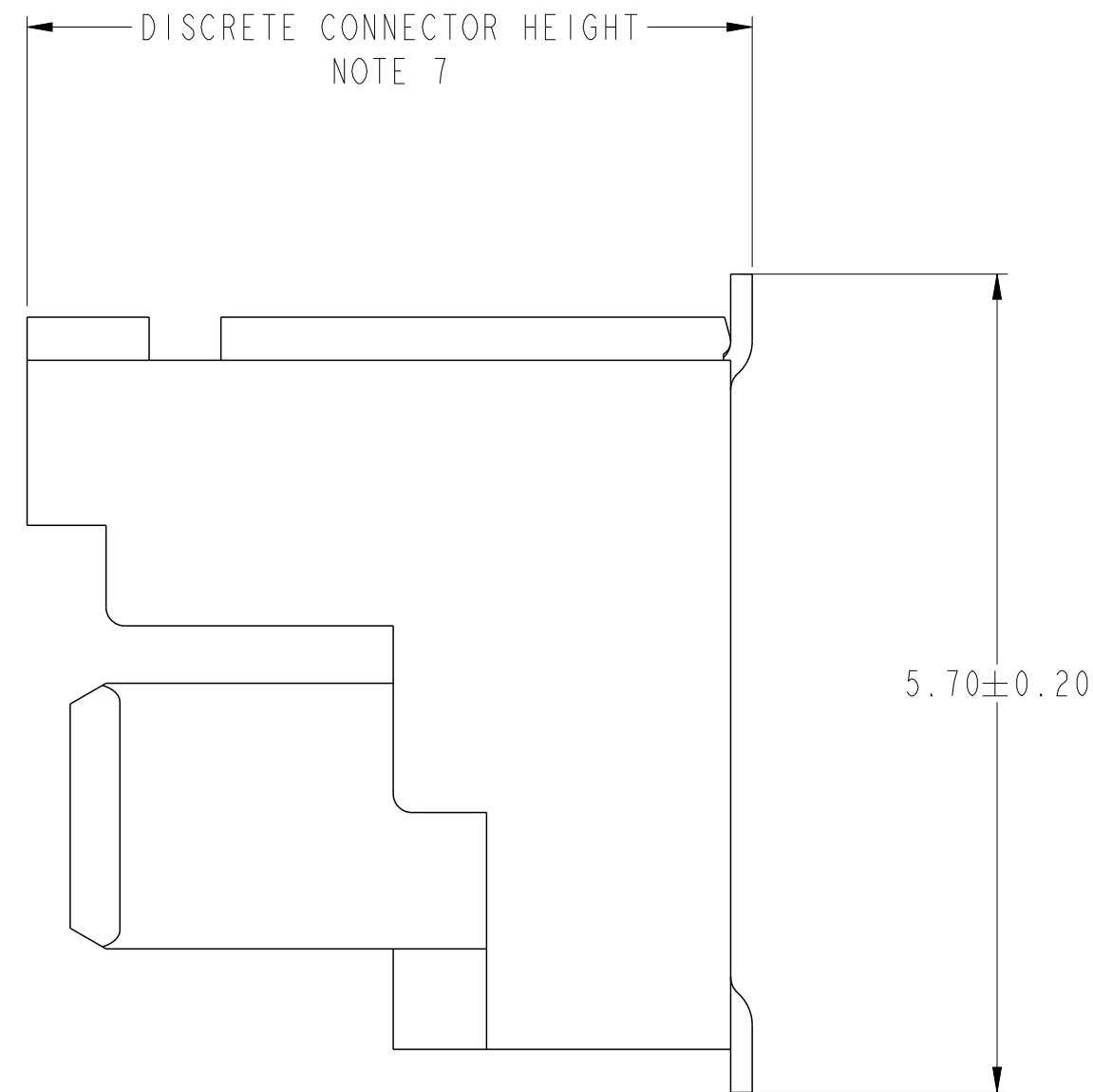
CONNECTOR ORIENTATION  
FEATURE

POSITION 1  
SEE CONNECTOR  
MATING TABLE

POSITION 3



10106814-024002LF SHOWN  
WITHOUT STANDARD PICK-UP CAP



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

|               |            |        |                |             |                                                                                      |           |                        |                |       |      |
|---------------|------------|--------|----------------|-------------|--------------------------------------------------------------------------------------|-----------|------------------------|----------------|-------|------|
| 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 |       |      |
|               |            | appr   | Pei-Ming Zheng | 2015/07/15  | product family                                                                       | MezzoStak | rel level              | Released       |       |      |
| surface       | ✓          | linear | 0.X            | ±0.3        | FCI<br>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   |       |      |



Copyright FCI.

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         |

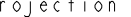
| PRACTICAL CONNECTOR HEIGHT<br>NOTE 8 |
|--------------------------------------|
| 1 = 2.0MM                            |
| 2 = 2.5MM                            |
| 3 = 3.0MM                            |
| 4 = 3.5MM                            |

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    |

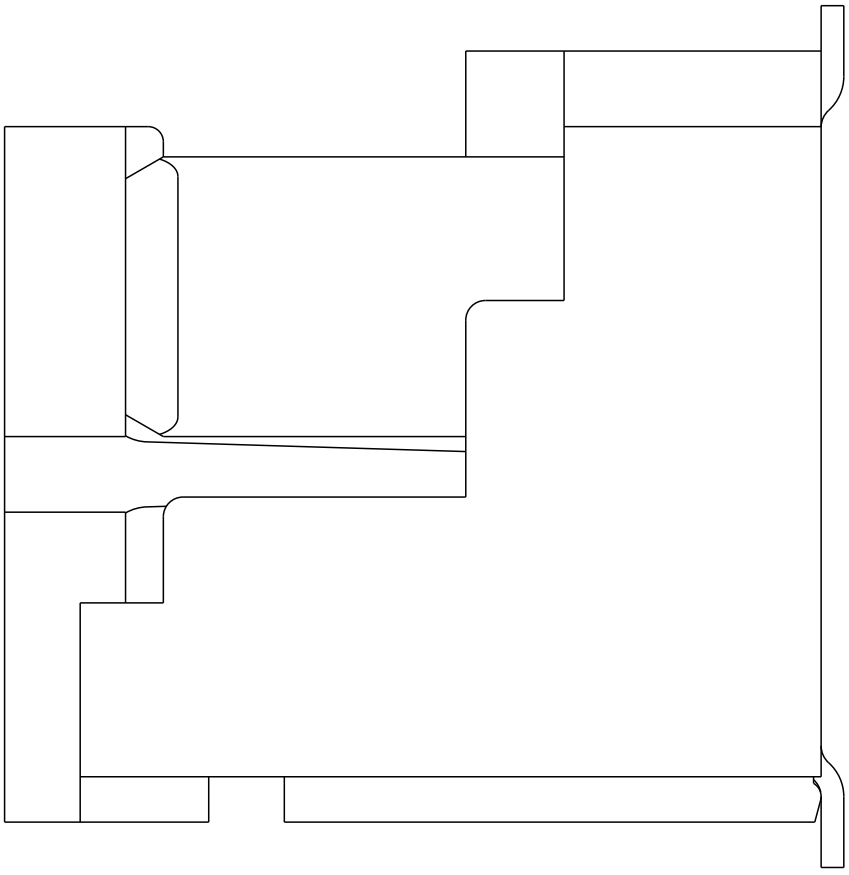
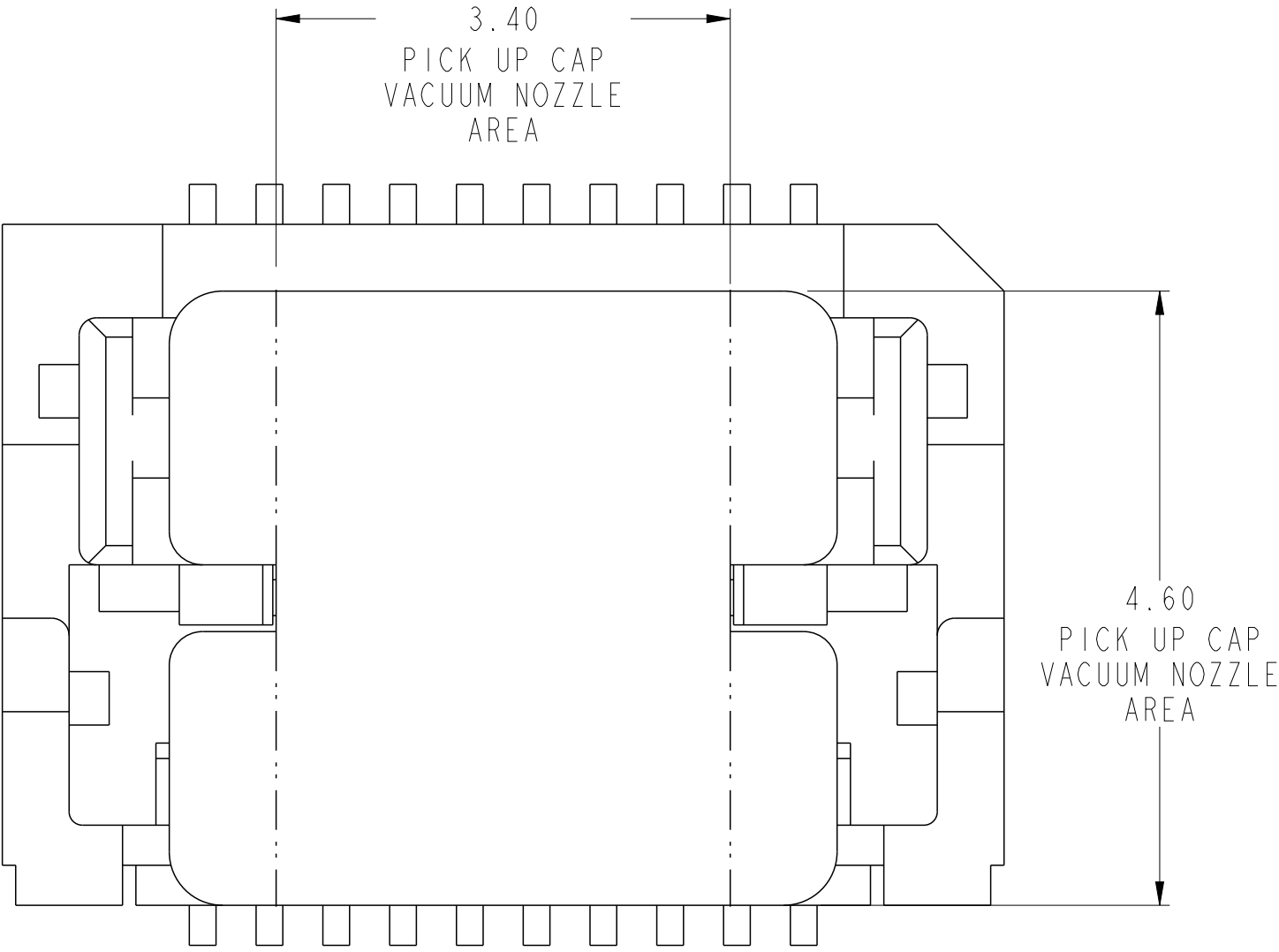
|               |  |                                                                                       |  |        |  |                |  |             |  |                                                                                       |  |                                                                                       |  |                                                                                       |  |        |  |                |  |          |  |   |  |     |  |   |  |
|---------------|--|---------------------------------------------------------------------------------------|--|--------|--|----------------|--|-------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|--------|--|----------------|--|----------|--|---|--|-----|--|---|--|
| 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                                                                            |  |  |  |  |  | ecn no |  | ELX-DG-21387-1 |  |          |  |   |  |     |  |   |  |
| ASME Y14.5    |  |                                                                                       |  |        |  | chr            |  | -           |  | -                                                                                     |  |                                                                                       |  |                                                                                       |  | -      |  | -              |  | -        |  | - |  |     |  |   |  |
|               |  |                                                                                       |  | appr   |  | Pei-Ming Zheng |  | 2015/07/15  |  | product family                                                                        |  |                                                                                       |  | MezzoStak                                                                             |  |        |  | rel level      |  | Released |  |   |  |     |  |   |  |
| surface       |  |  |  | linear |  | 0.X            |  | ±0.3        |  |  |  | title                                                                                 |  | HERMAPHRODITIC CONNECTOR,SHORT STYLE                                                  |  |        |  | tag 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 3 of 8   |  |          |  |   |  |     |  |   |  |

PDS: Rev :D

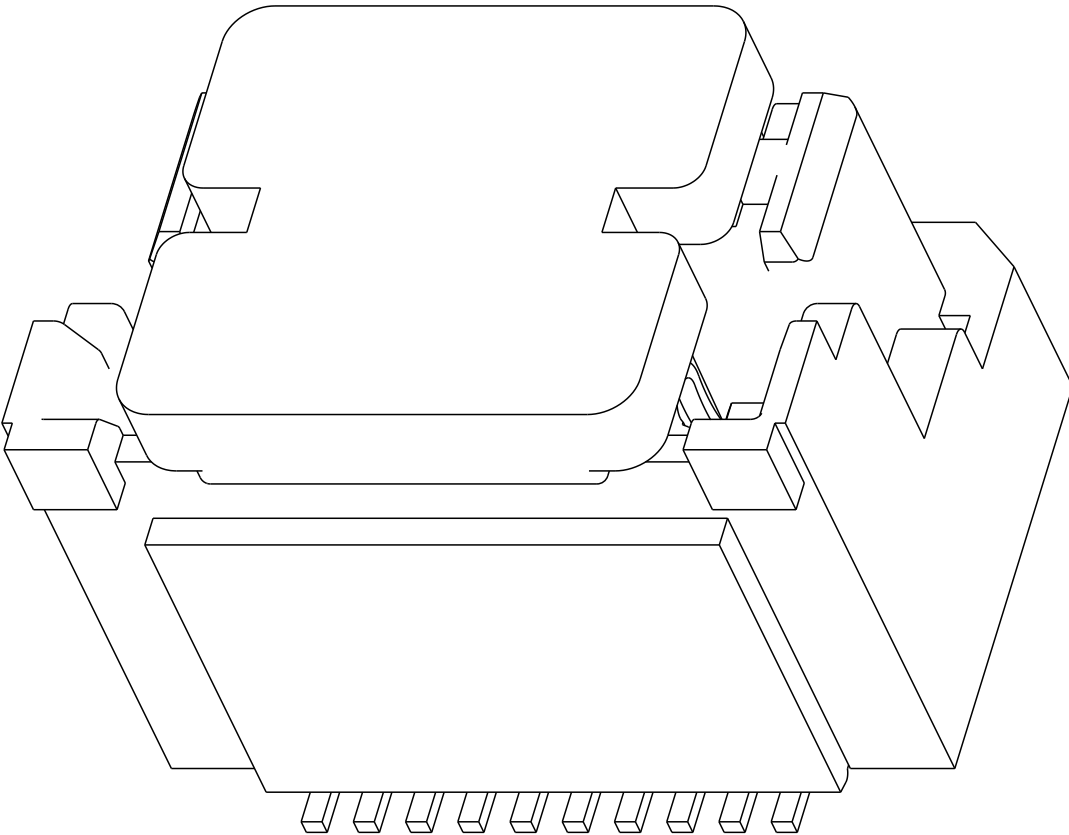
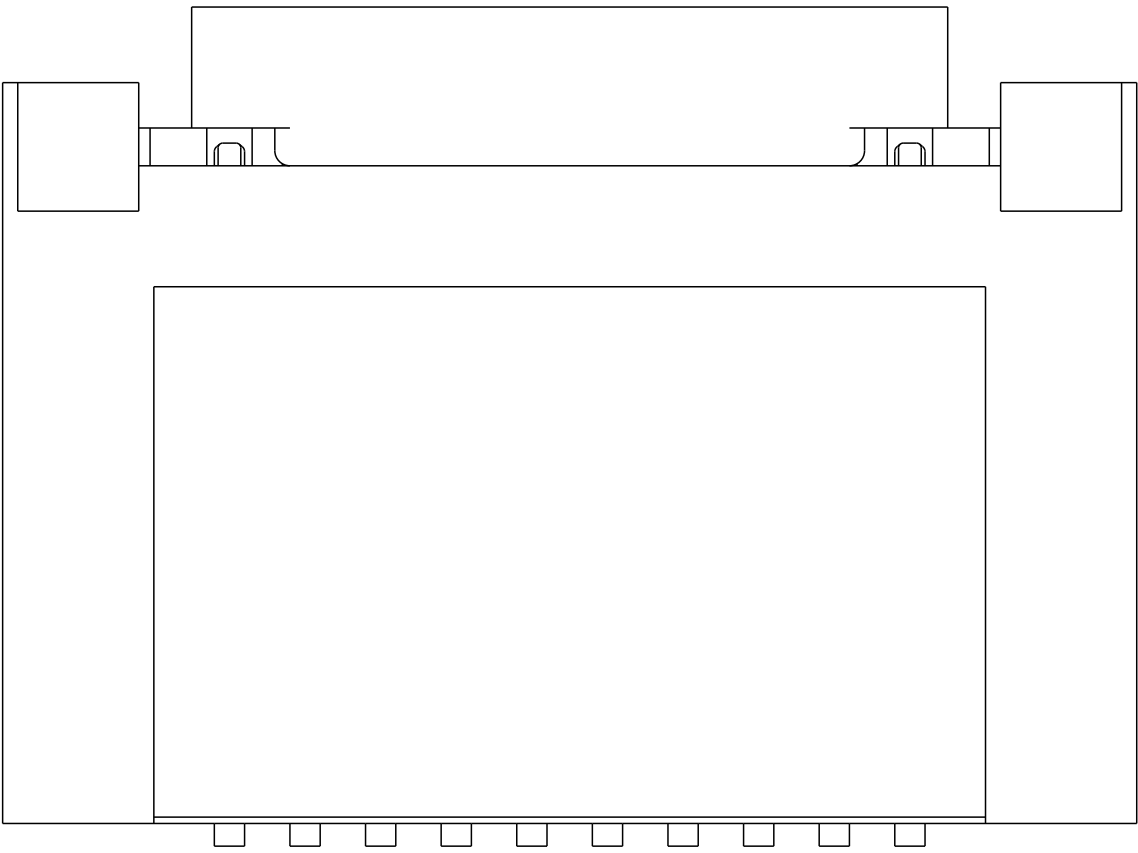
STATUS:Released

Printed: Jul 16, 2015

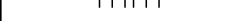
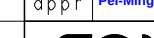




10106814-024002LF SHOWN  
WITH STANDARD PICK-UP CAP



Copyright FCI.

|               |  |                                                                                       |  |                                       |  |       |  |                |  |                                                                                       |  |                                                                                       |  |                                                                                       |  |                        |  |                |  |            |  |        |  |              |  |     |  |   |  |
|---------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------|--|-------|--|----------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|------------------------|--|----------------|--|------------|--|--------|--|--------------|--|-----|--|---|--|
| 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         |  |                |  | MezzoStack |  |        |  |              |  |     |  |   |  |
|               |  |                                                                                       |  |                                       |  |       |  |                |  |                                                                                       |  |                                                                                       |  |                                                                                       |  |                        |  |                |  |            |  |        |  |              |  |     |  |   |  |
| 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 4 of 8 |  |     |  |   |  |

PDS: Rev :D

STATUS:Released

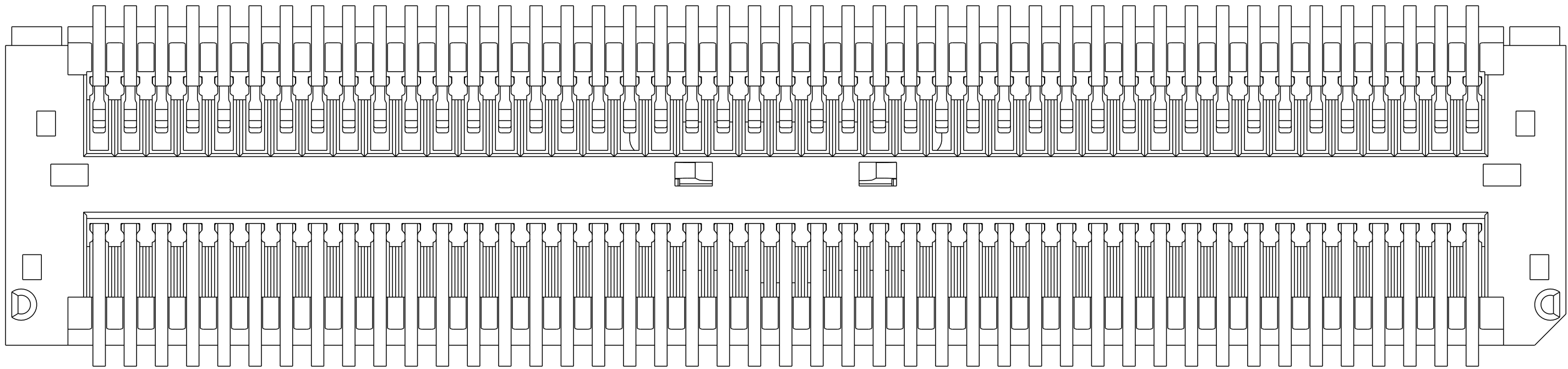
Printed: Jul 16, 2015



Copyright FCI.

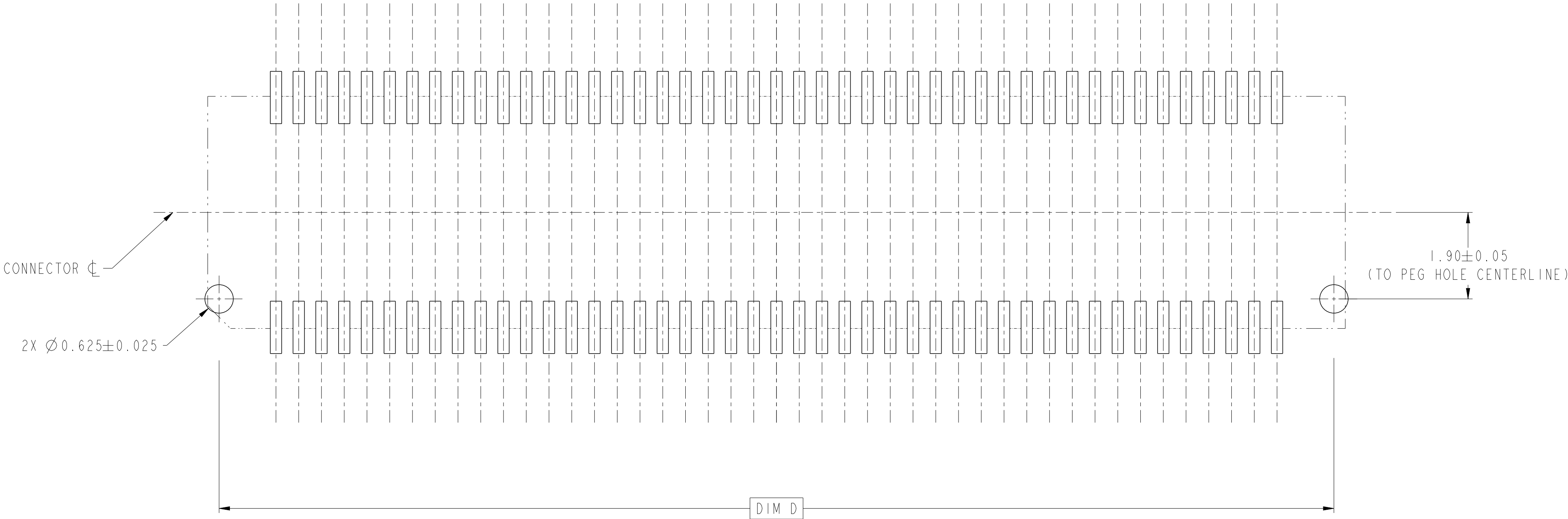


10106814-0932X2LF SHOWN



SCALE 15:1

2X (Ø0.50) PEGS FEATURE  
ONLY FOR 10106814-083202LF  
AND 10106814-093202LF



PCB 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   | rel level | Released       | rev       | D        |
| linear        | 0.X ±0.3<br>0.XX ±0.15<br>0.XXX ±0.05 | title       | HERMAPHRODITIC CONNECTOR, SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT |            |                        |              |           |                |           |          |
| angular       | 0° ±3°                                | www.fci.com | cat. no.                                                                      | -          | Product - Customer Drw | sheet 7 of 8 |           |                |           |          |

PDS: Rev :D

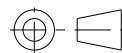
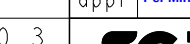
STATUS:Released

Printed: Jul 16, 2015



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          |  |                                                                                       |  |           |  |       |  |                |  | cat. no. |  | - |  | Product - Customer Drw |  | sheet 8 of 8 |  | rev |  | D |  |
|               |  |                                                                                       |  |                                       |  | 0.XX  |  | ±0.15      |  |                                                                                       |  |            |  |                                                                                       |  |                                                                                       |  |           |  |       |  |                |  |          |  |   |  |                        |  |              |  |     |  |   |  |
|               |  |                                                                                       |  |                                       |  | 0.XXX |  | ±0.05      |  |                                                                                       |  |            |  |                                                                                       |  |                                                                                       |  |           |  |       |  |                |  |          |  |   |  |                        |  |              |  |     |  |   |  |
| ASME Y14.5    |  |                                                                                       |  | angular                               |  | 0°    |  | ±3°        |  | www.fci.com                                                                           |  |            |  |                                                                                       |  |                                                                                       |  |           |  |       |  |                |  |          |  |   |  |                        |  |              |  |     |  |   |  |