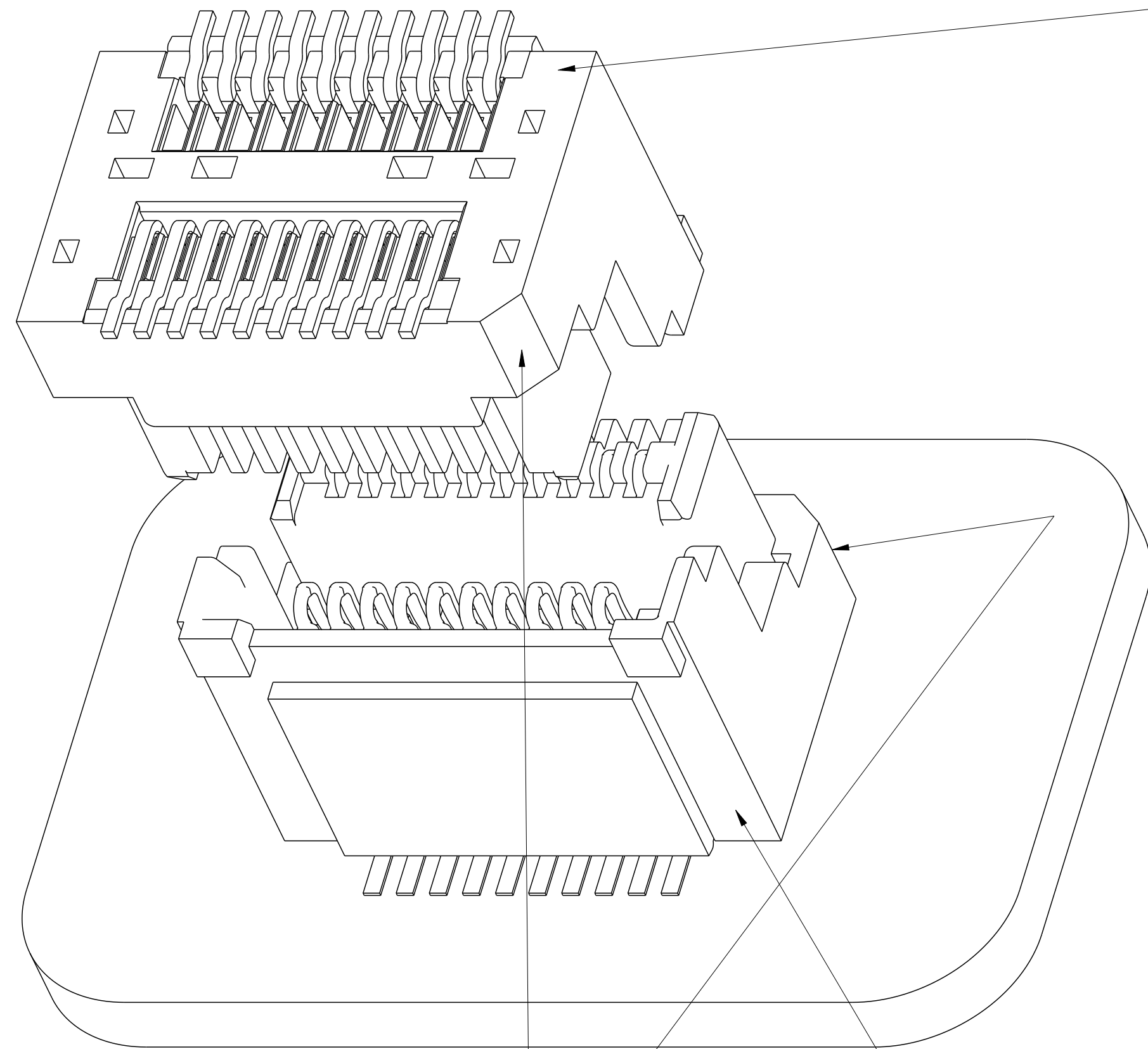
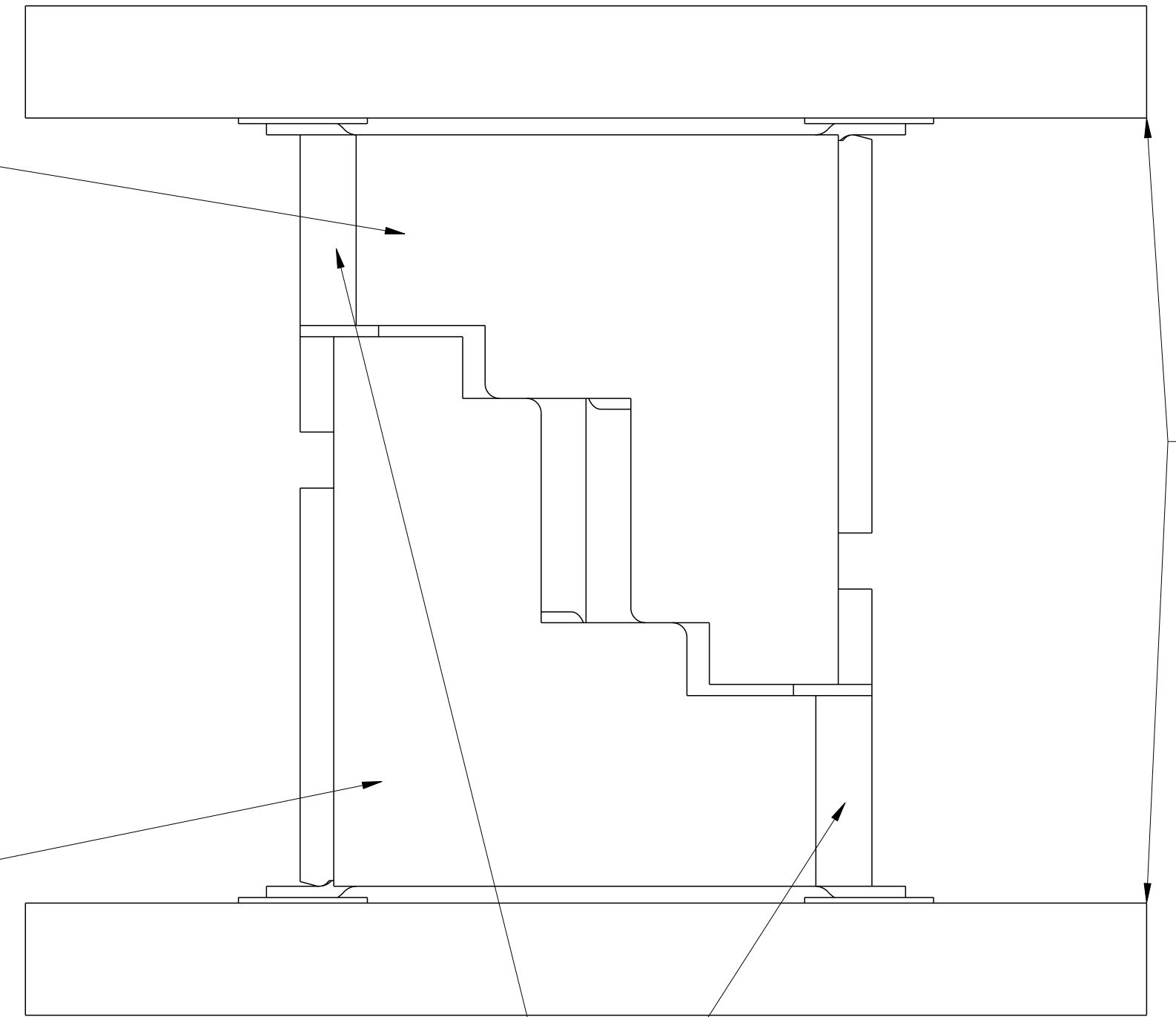


PRODUCT NUMBER  
10106814-0XX0X2LF



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

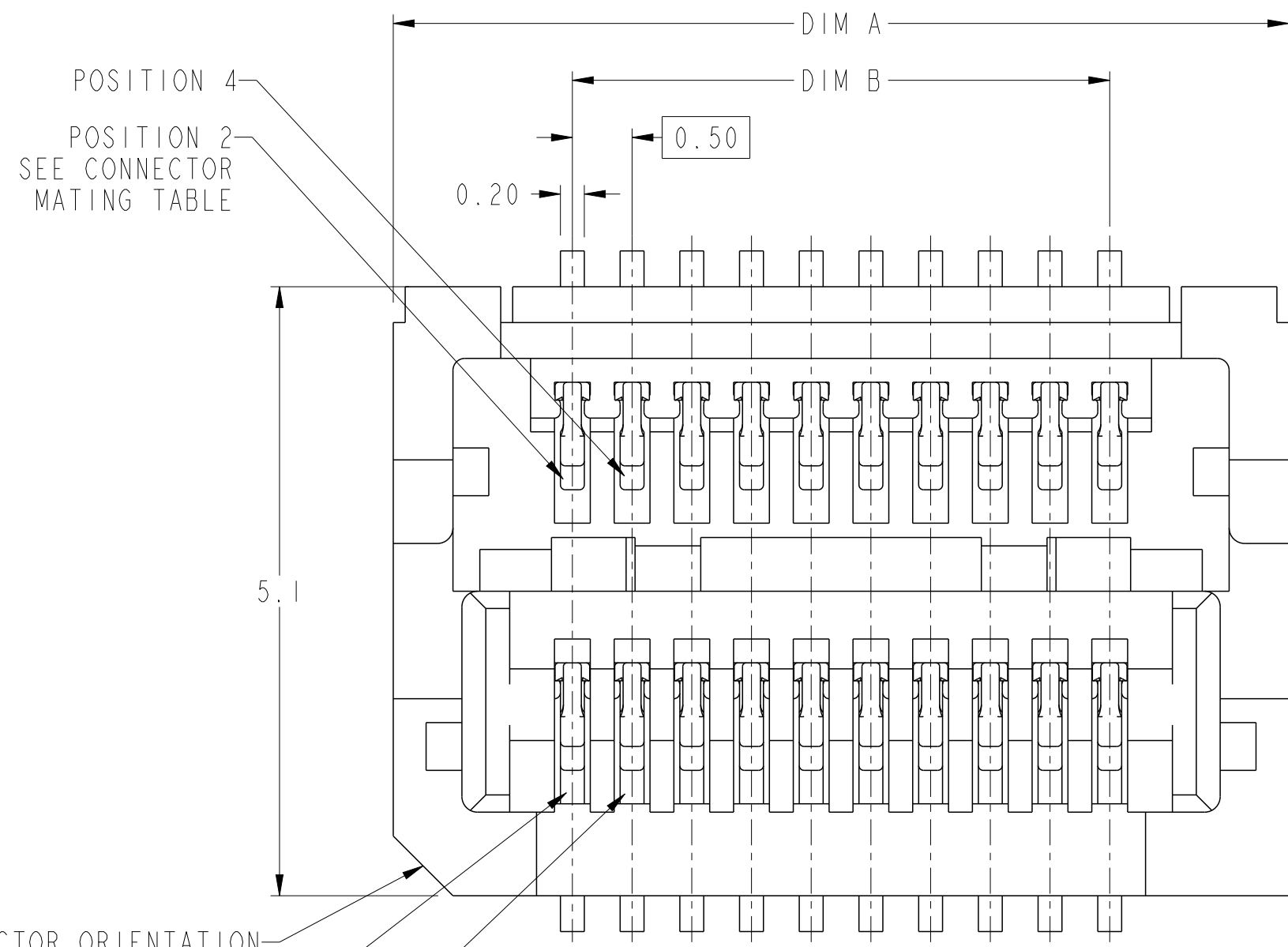
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|                                       |  |       |            |             |  |                    |                        |                                     |           |              |
|---------------------------------------|--|-------|------------|-------------|--|--------------------|------------------------|-------------------------------------|-----------|--------------|
| 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  |  | mm                 | ecn no                 | ELX-DG-21387-1                      | rel level | Released     |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |  | chr   | -          | appr        |  |                    |                        |                                     |           |              |
| surface                               | <input checked="" type="checkbox"/> linear<br><input type="checkbox"/> angular | 0.X   | ±0.3       |             | title<br>HERMAPHRODITIC CONNECTOR, SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT | dwg no<br>10106814 | rev<br>D               | Product - Customer Drw sheet 1 of 8 |           |              |
|                                       |  | 0.XX  | ±0.15      |             |  |                    |                        |                                     |           |              |
|                                       |  | 0.XXX | ±0.05      |             |  |                    |                        |                                     |           |              |
| ASME Y14.5                            | angular  | 0°    | ±3°        | www.fci.com | cat. no.   | -                  | Product - Customer Drw |                                     |           | sheet 1 of 8 |

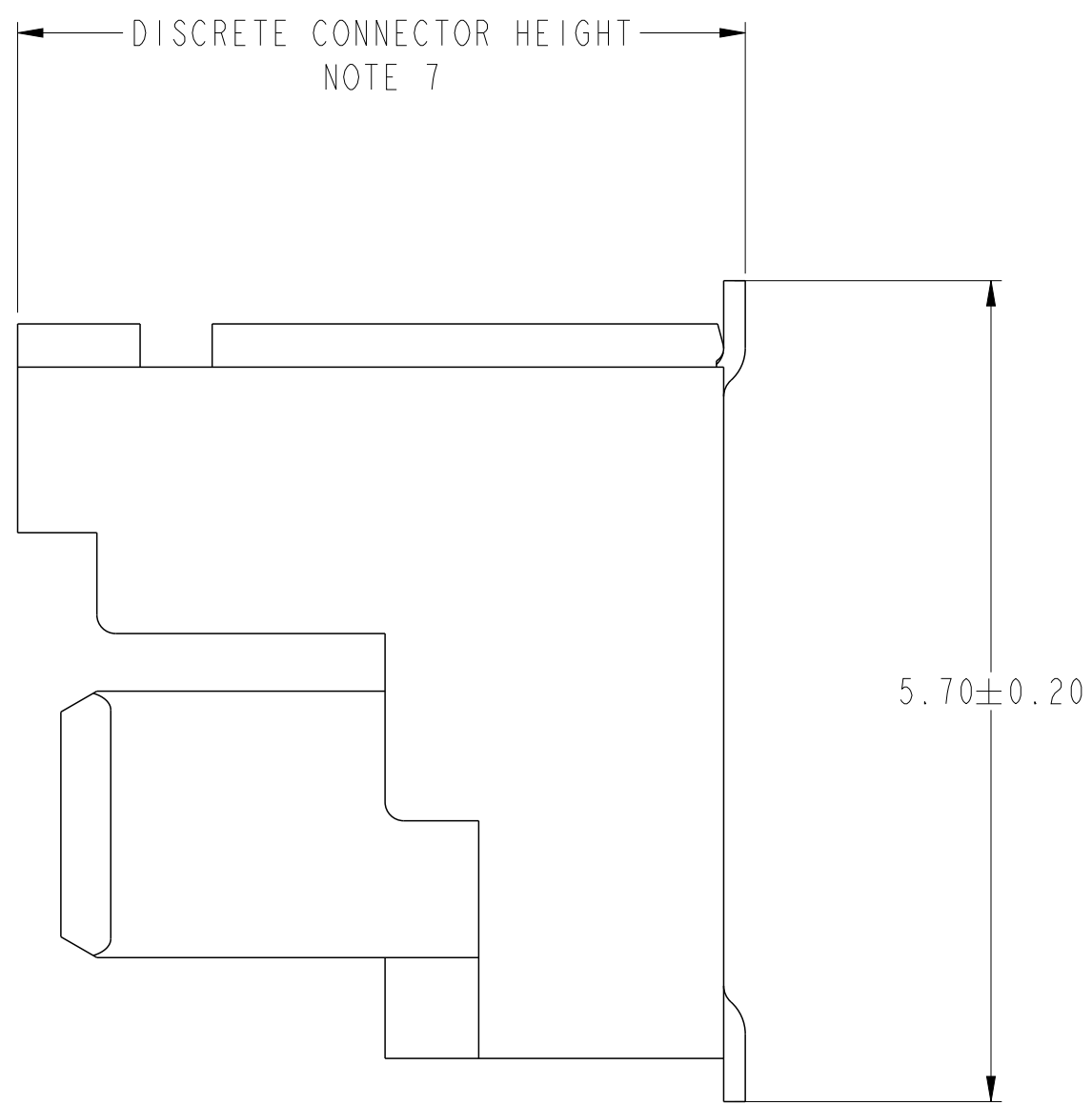
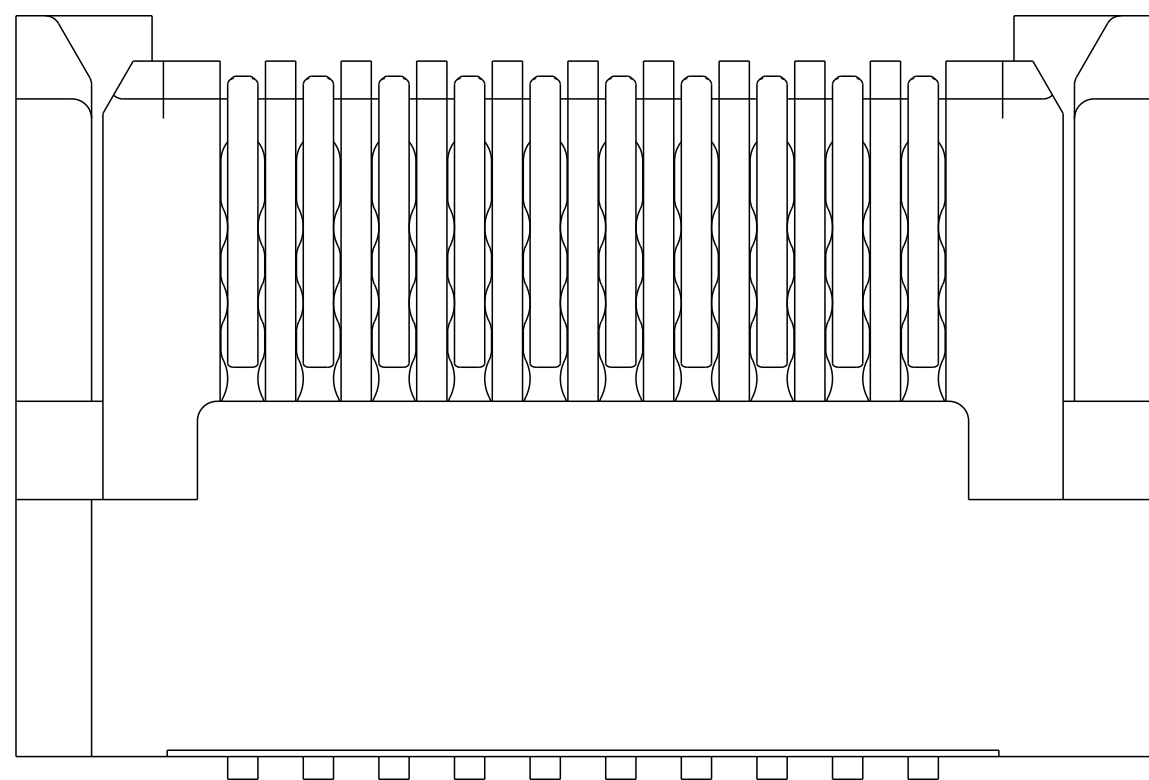
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CONNECTOR ORIENTATION FEATURE  
POSITION 1  
SEE CONNECTOR MATING TABLE  
POSITION 3



| 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

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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 |            |  | ecn no             | ELX-DG-21387-1 |                        |            |           |              |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |            | chr     | -          | appr       |            |  | Pei-Ming Zheng     | 2015/07/15     | product family         | MezzoStack | rel level | Released     |
| surface                               | ✓          | linear  | 0.X        | ±0.3       |            | title<br>HERMAPHRODITIC CONNECTOR, SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT | dwg no<br>10106814 | rev<br>D       | Product - Customer Drw |            |           |              |
|                                       |            | angular | 0°         | ±3°        |            |  |                    |                | cat. no.               | -          |           | sheet 2 of 8 |
|                                       |            |         |            |            |            |  |                    |                | www.fci.com            |            |           |              |

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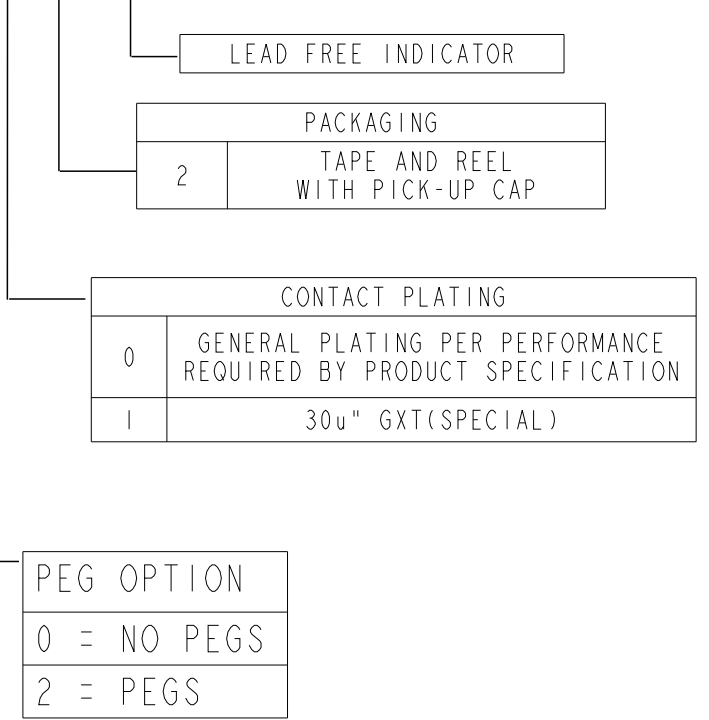
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**0.5 BTB HERMAPHRODITIC CONNECTOR ASSEMBLY PART NUMBER SCHEME**  
**EXAMPLE: 10106814-XX X X X 2 LF**

| 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 NOTE 8 |
|-----------------------------------|
| 1 = 2.0MM                         |
| 2 = 2.5MM                         |
| 3 = 3.0MM                         |
| 4 = 3.5MM                         |



| PRODUCT NUMBER    | NUMBER OF POSITIONS | DIM A | DIM B | DISCRETE CONNECTOR HEIGHT NOTE 9 | PRACTICAL CONNECTOR HEIGHT 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  | 5.05                             | 3.50                              | RELEASED    |
| 10106814-063002LF | 60                  | 17.5  | 14.5  |                                  |                                   |             |
| 10106814-073002LF | 70                  | 20.0  | 17.0  |                                  |                                   |             |
| 10106814-083002LF | 80                  | 22.5  | 19.5  |                                  |                                   |             |
| 10106814-093002LF | 90                  | 25.0  | 22.0  |                                  |                                   |             |
| 10106814-024002LF | 20                  | 7.5   | 4.5   | 4.05                             | 2.50                              | UN-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  |                                  |                                   |             |

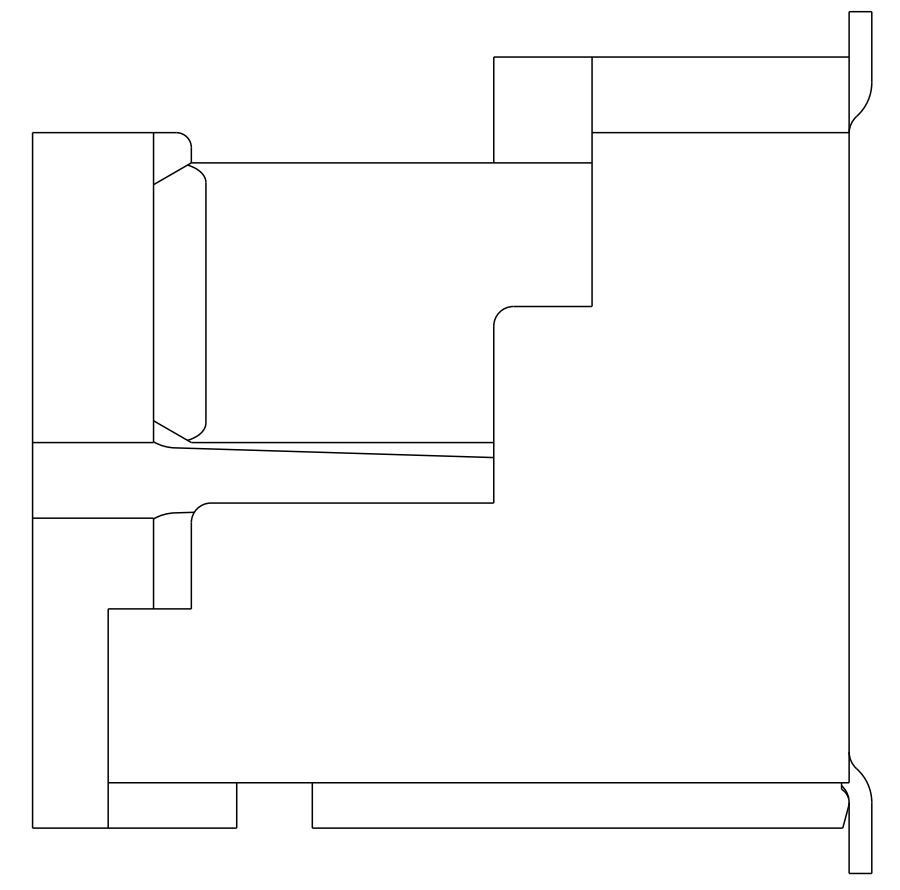
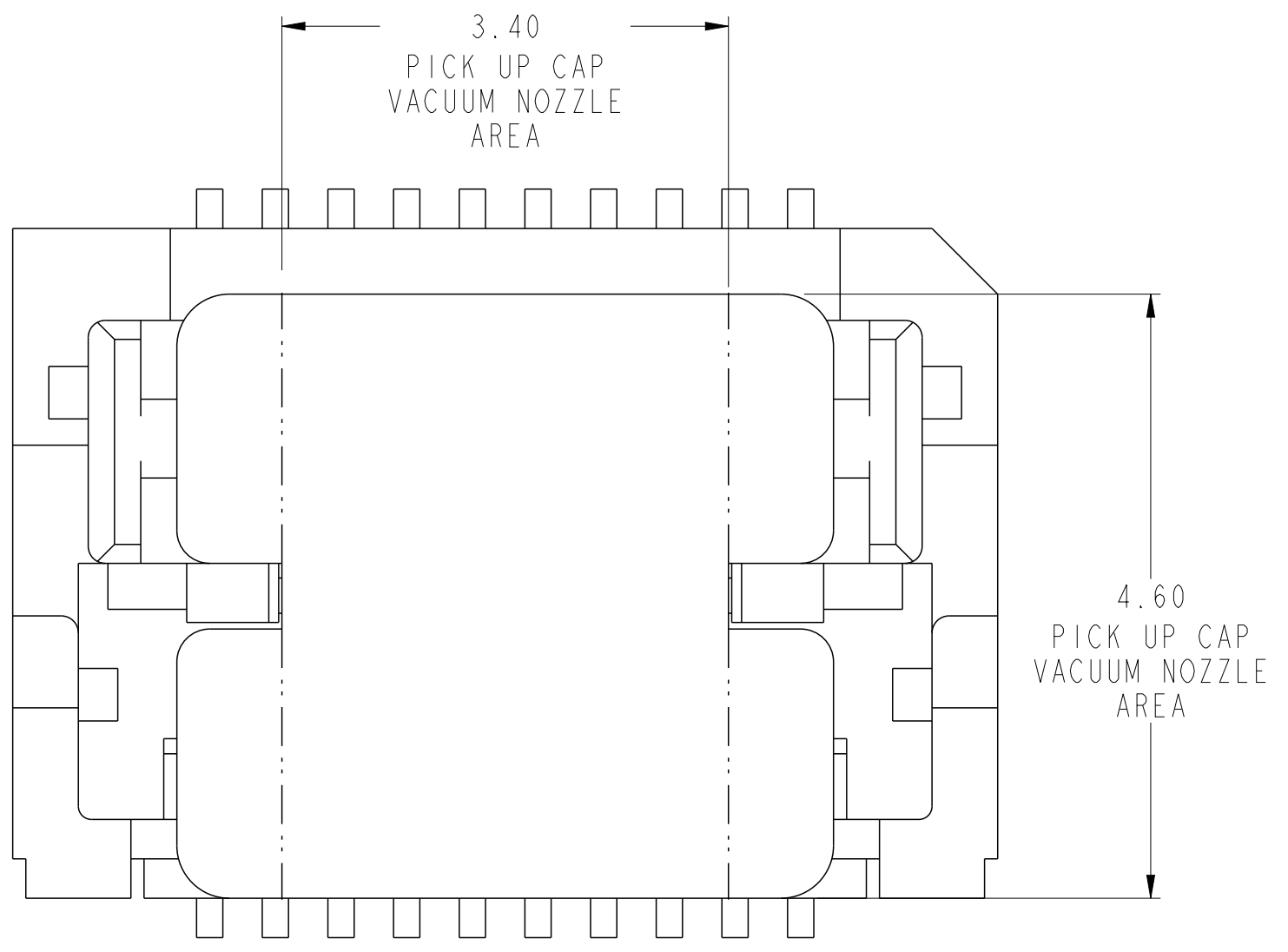
|                                       |            |             |                |                                       |                |                                      |          |                        |           |              |
|---------------------------------------|------------|-------------|----------------|---------------------------------------|----------------|--------------------------------------|----------|------------------------|-----------|--------------|
| spec ref                              | ---        | dr          | Stu Stoner     | 2010/1/22                             | 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 | MezzoStak                            | cat. no. | 10106814               | rev       | D            |
| ASME Y14.5                            | linear     | 0.X         | ±0.3           | 0.XX                                  | ±0.15          | 0.XXX                                | ±0.05    | angular                | 0°        | ±3°          |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |            | www.fci.com |                | HERMAPHRODITIC CONNECTOR, SHORT STYLE |                | 20-90 POS, 0.5MM CTR, 4-7MM STACK HT |          | Product - Customer Drw |           | sheet 3 of 8 |

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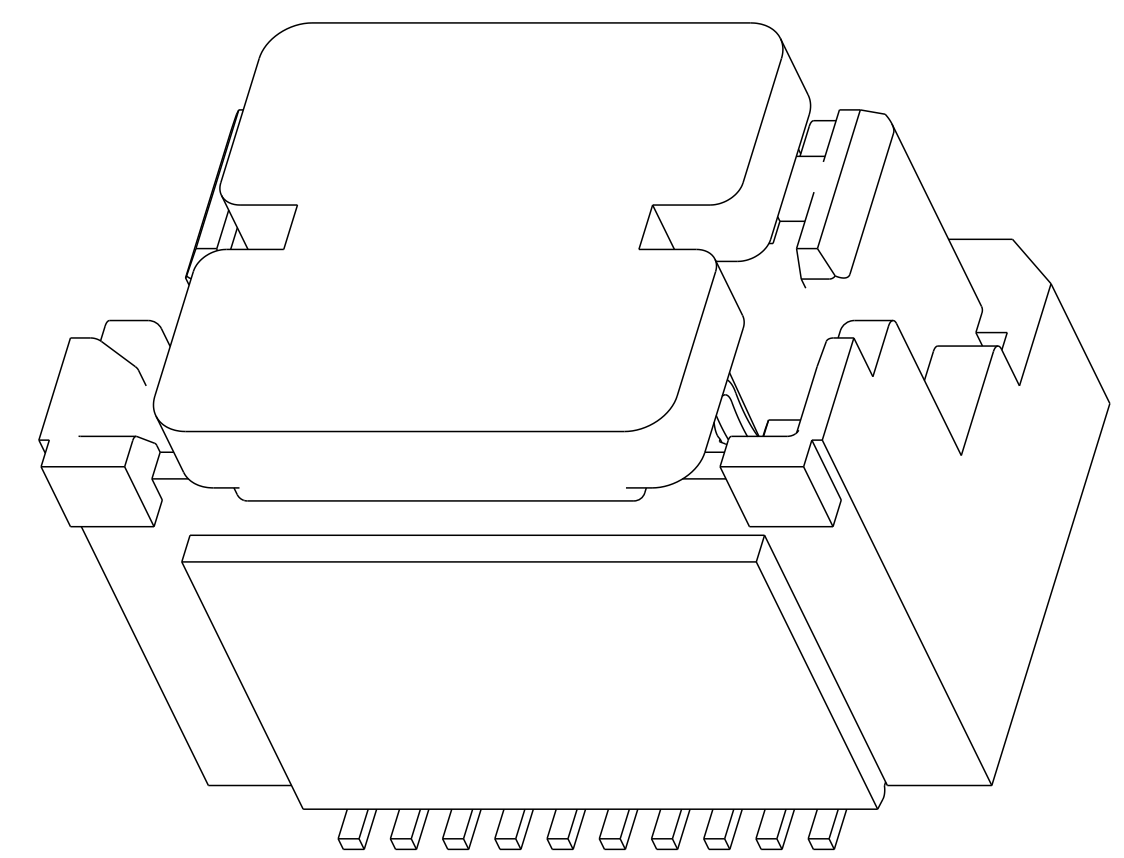
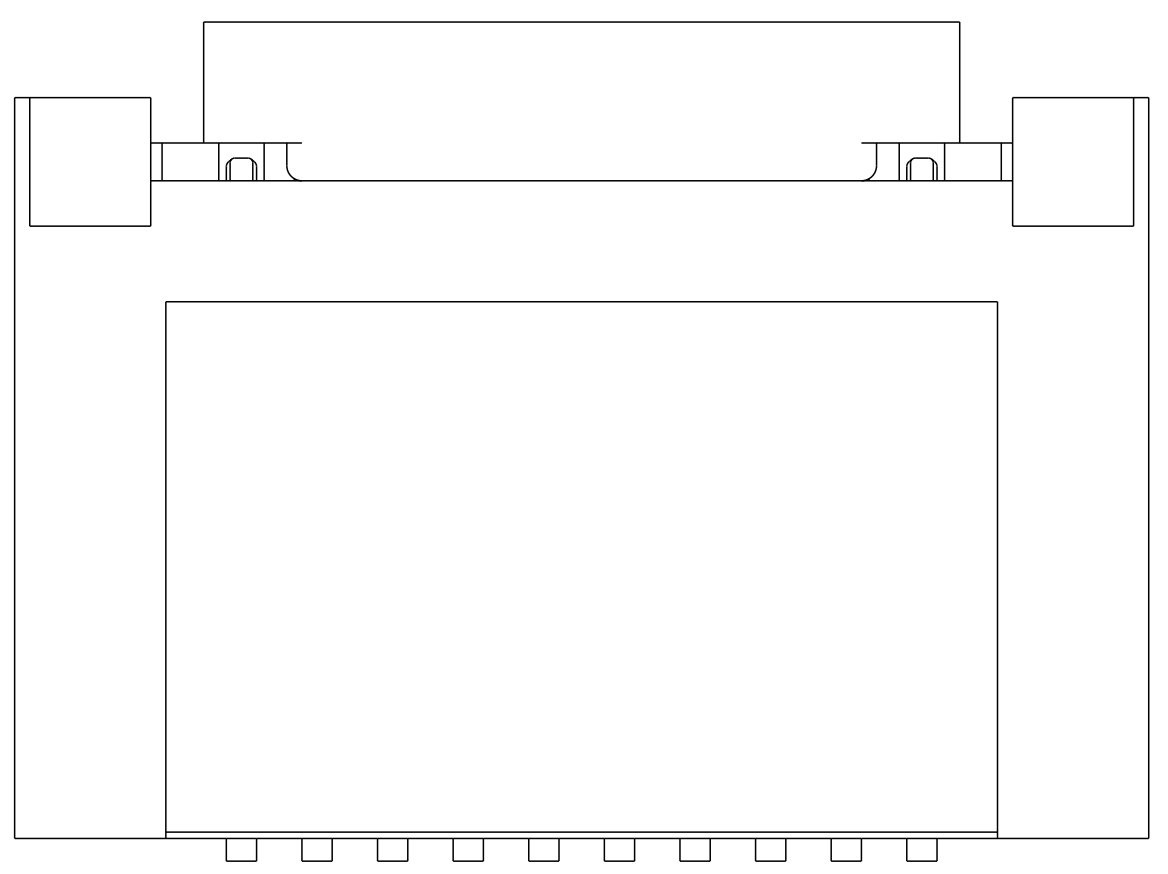
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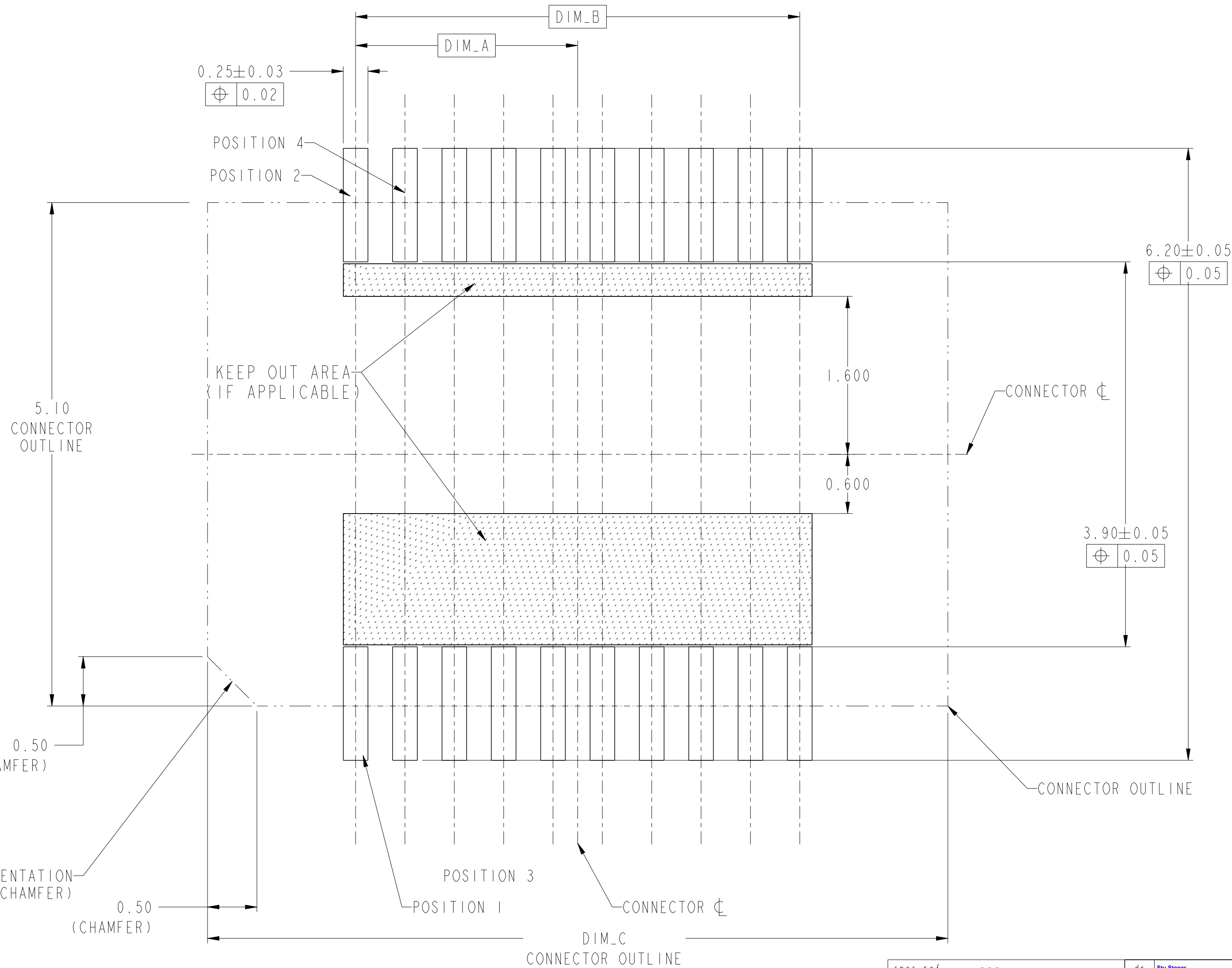
10106814-024002LF SHOWN  
WITH STANDARD PICK-UP CAP



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|                                       |            |         |            |            |             |  |                    |                        |                |           |
|---------------------------------------|------------|---------|------------|------------|-------------|--|--------------------|------------------------|----------------|-----------|
| spec ref                              | ---        | dr      | Stu Stoner | 2010/1/22  | projection  | mm   | size               | A2                     | scale          | 20:1      |
| tolerance std                         | ASME Y14.5 | eng     | Andy Lu    | 2015/07/15 |             |  | ecn no             | ELX-DG-21387-1         |                |           |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |            | chr     | -          | appr       |             |  | Pei-Ming Zheng     | 2015/07/15             | product family | MezzoStak |
| surface                               |            | linear  | 0.X        | ±0.3       |             | title<br>HERMAPHRODITIC CONNECTOR, SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT | dwg no<br>10106814 | rev<br>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   |           |

| PRODUCT NUMBER    | NUMBER OF POSITIONS | DIM A | DIM B | DIM C | PEGS STATUS | DIM_D |
|-------------------|---------------------|-------|-------|-------|-------------|-------|
| 10106814-02X002LF | 20                  | 2.25  | 4.50  | 7.50  | NO          | N/A   |
| 10106814-03X002LF | 30                  | 3.50  | 7.00  | 10.00 | NO          | N/A   |
| 10106814-04X002LF | 40                  | 4.75  | 9.50  | 12.50 | NO          | N/A   |
| 10106814-05X002LF | 50                  | 6.00  | 12.00 | 15.00 | NO          | N/A   |
| 10106814-06X002LF | 60                  | 7.25  | 14.50 | 17.50 | NO          | N/A   |
| 10106814-07X002LF | 70                  | 8.50  | 17.00 | 20.00 | NO          | N/A   |
| 10106814-08X002LF | 80                  | 9.75  | 19.50 | 22.50 | NO          | N/A   |
| 10106814-09X0X2LF | 90                  | 11.00 | 22.00 | 25.00 | NO          | N/A   |
| 10106814-08X202LF | 80                  | 9.75  | 19.50 | 22.50 | YES         | 22.00 |
| 10106814-09X202LF | 90                  | 11.00 | 22.00 | 25.00 | YES         | 24.50 |



**OPTION 1 - SPACE OPTIMIZED FOOTPRINT**  
**SEE TABLE FOR CONNECTOR LAYOUT DIMENSIONS**  
**SEE NOTE 8 FOR STENCIL CREATION GUIDELINES**

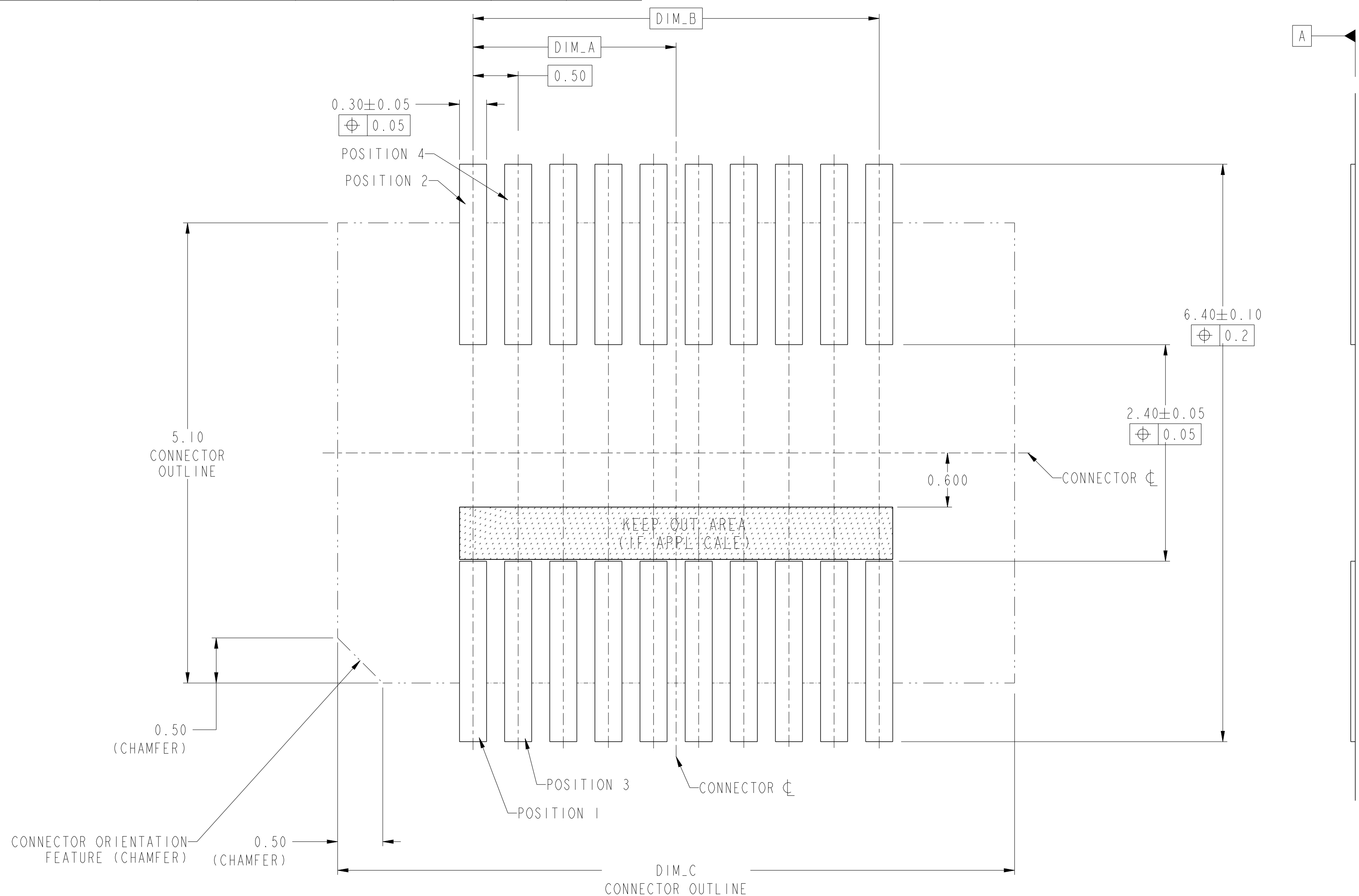
|               |            |             |                |            |                |                                       |         |                        |           |              |
|---------------|------------|-------------|----------------|------------|----------------|---------------------------------------|---------|------------------------|-----------|--------------|
| spec ref      | ---        | dr          | Stu Stoner     | 2010/1/22  | projection     | mm                                    | size    | A2                     | scale     | 30:1         |
| 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                             | cat. no | 10106814               | rev       | D            |
| ASME Y14.5    | linear     | 0.X         | ±0.3           | 0.XX       | ±0.15          | 0.XXX                                 | ±0.05   | angular                | 0°        | ±3°          |
|               |            | www.fci.com |                | title      |                | HERMAPHRODITIC CONNECTOR, SHORT STYLE |         | Product - Customer Drw |           | sheet 5 of 8 |



| PRODUCT NUMBER    | NUMBER OF POSITIONS | DIM A | DIM B | DIM C | PEGS STATUS | DIM_D |
|-------------------|---------------------|-------|-------|-------|-------------|-------|
| 10106814-02X002LF | 20                  | 2.25  | 4.50  | 7.50  | NO          | N/A   |
| 10106814-03X002LF | 30                  | 3.50  | 7.00  | 10.00 | NO          | N/A   |
| 10106814-04X002LF | 40                  | 4.75  | 9.50  | 12.50 | NO          | N/A   |
| 10106814-05X002LF | 50                  | 6.00  | 12.00 | 15.00 | NO          | N/A   |
| 10106814-06X002LF | 60                  | 7.25  | 14.50 | 17.50 | NO          | N/A   |
| 10106814-07X002LF | 70                  | 8.50  | 17.00 | 20.00 | NO          | N/A   |
| 10106814-08X002LF | 80                  | 9.75  | 19.50 | 22.50 | NO          | N/A   |
| 10106814-09X0X2LF | 90                  | 11.00 | 22.00 | 25.00 | NO          | N/A   |
| 10106814-08X202LF | 80                  | 9.75  | 19.50 | 22.50 | YES         | 22.00 |
| 10106814-09X202LF | 90                  | 11.00 | 22.00 | 25.00 | YES         | 24.50 |

A  
B  
C  
D  
E  
F

A  
B  
C  
D  
E  
F



**OPTION 2 - FOOTPRINT**  
**SEE TABLE FOR CONNECTOR LAYOUT DIMENSIONS**  
**SEE NOTE 8 FOR STENCIL CREATION GUIDELINES**

|               |            |             |                |            |                |                        |        |                |           |          |
|---------------|------------|-------------|----------------|------------|----------------|------------------------|--------|----------------|-----------|----------|
| spec ref      | ---        | dr          | Stu Stoner     | 2010/1/22  | 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             | div no | 10106814       | rev       | D        |
| 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 6 of 8   |           |          |

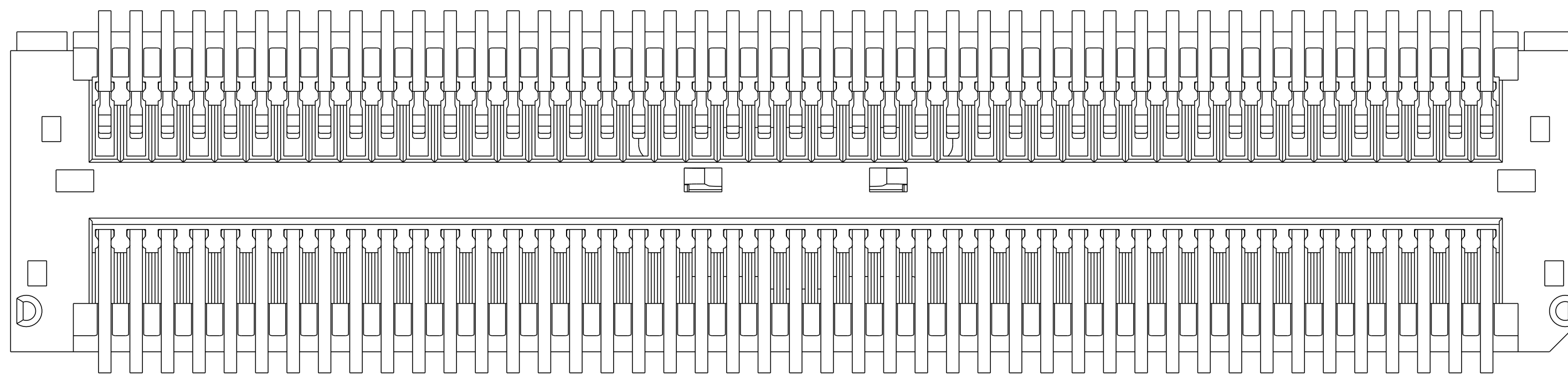
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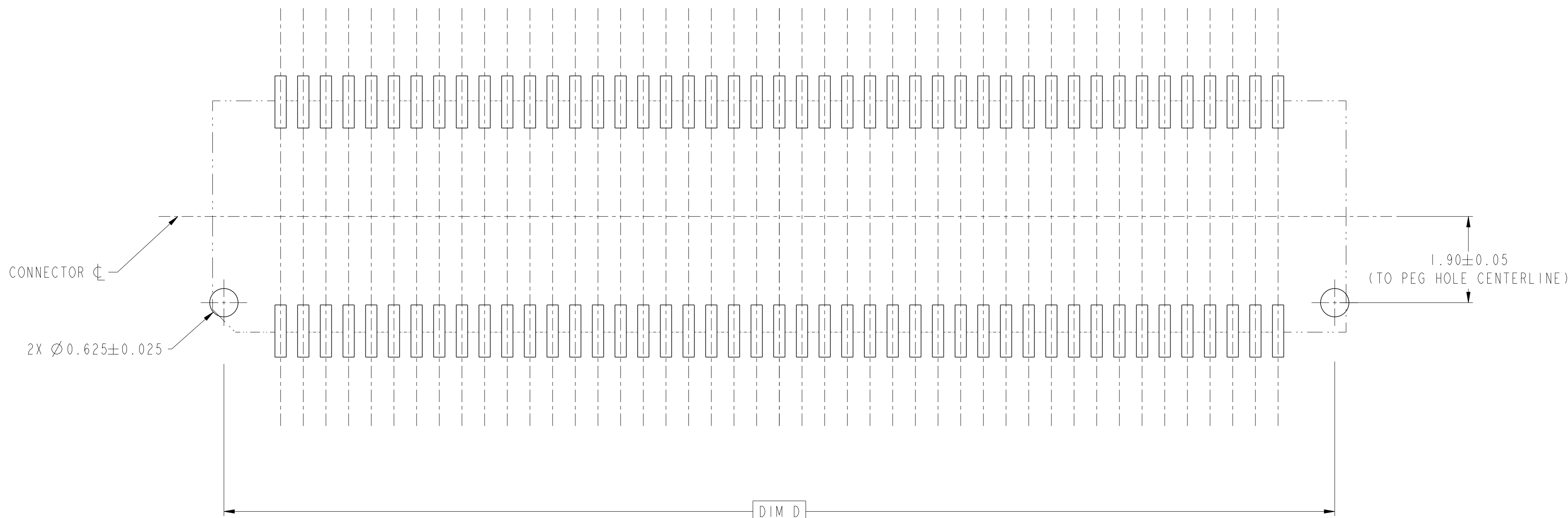
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10106814-0932X2LF SHOWN



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   |            |                    | ecn no    | ELX-DG-21387-1 | rel level<br><b>Released</b> | rev<br><b>D</b> |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |  | chr  | -              | product family   |            |                    | MezzoStak |                |                              |                 |
| surface                               | linear<br>0.X ±0.3<br>0.XX ±0.15<br>0.XXX ±0.05<br>angular<br>0° ±3° | appr | Pei-Ming Zheng | 2015/07/15   |            |                    | cat. no.  | -              |                              |                 |
|                                       |  |      |                | title<br>HERMAPHRODITIC CONNECTOR, SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT |            | dwg no<br>10106814 |           |                |                              |                 |

PDS: Rev :D

STATUS:Released

Printed: Jul 16, 2015

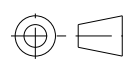
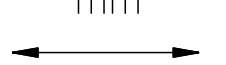




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NOTES

- 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 REGULATION 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 | 2010/1/22   | projection  | mm   | size                   | A2             | scale          | 20:1      |           |
| tolerance std                         | ASME Y14.5  | eng    | Andy Lu    | 2015/07/15  |  |   | ecn no                 | ELX-DG-21387-1 |                |           |           |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |   | chr    | -          | appr        |   |  | Pei-Ming Zheng         | 2015/07/15     | product family | MezzoStak | rel level |
| surface                               |  | linear | 0.X        | ±0.3        |  | title<br>HERMAPHRODITIC CONNECTOR, SHORT STYLE<br>20-90 POS, 0.5MM CTR, 4-7MM STACK HT | dwg no<br>10106814     | rev<br>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   |                |           |           |

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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