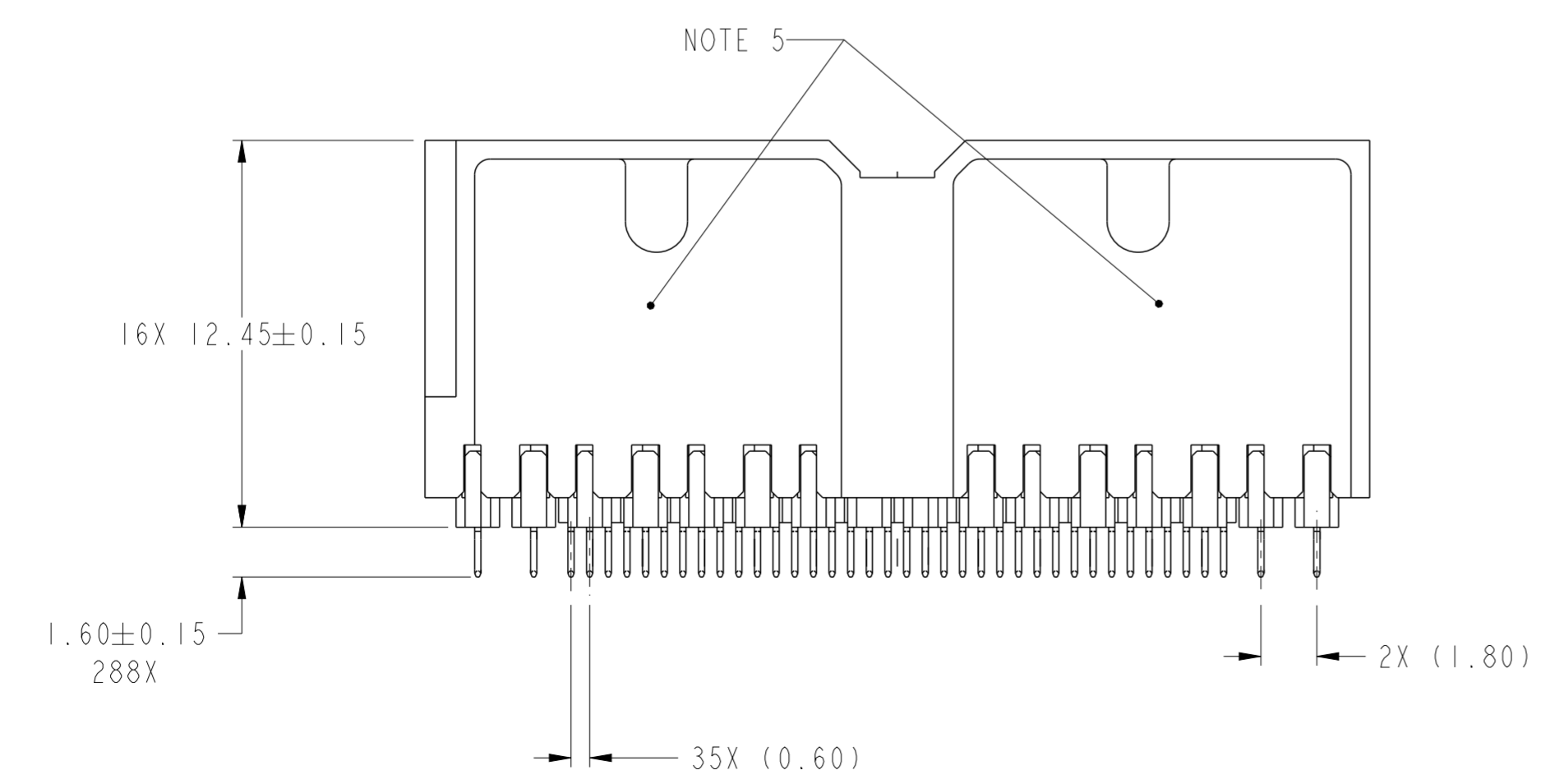
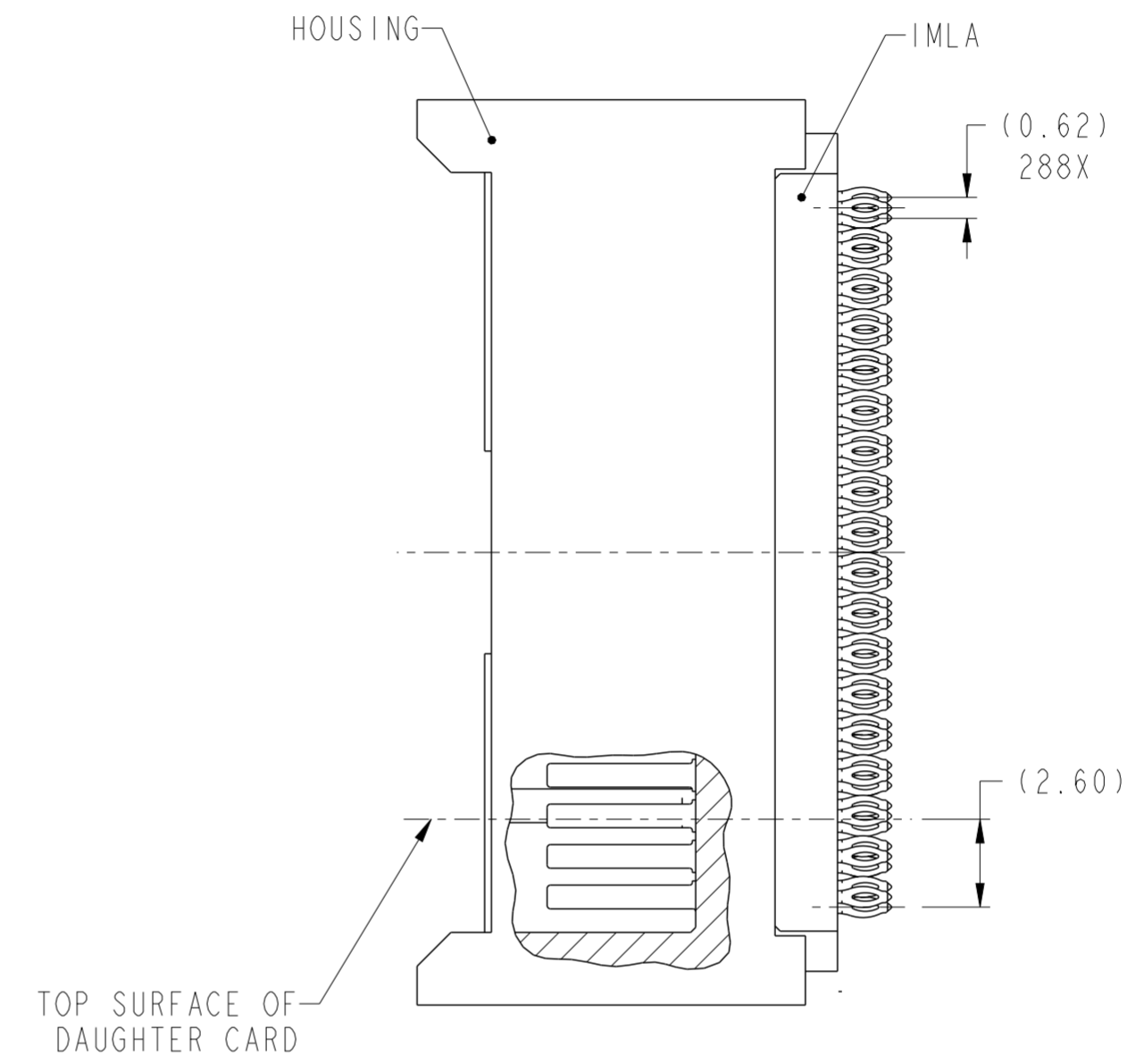
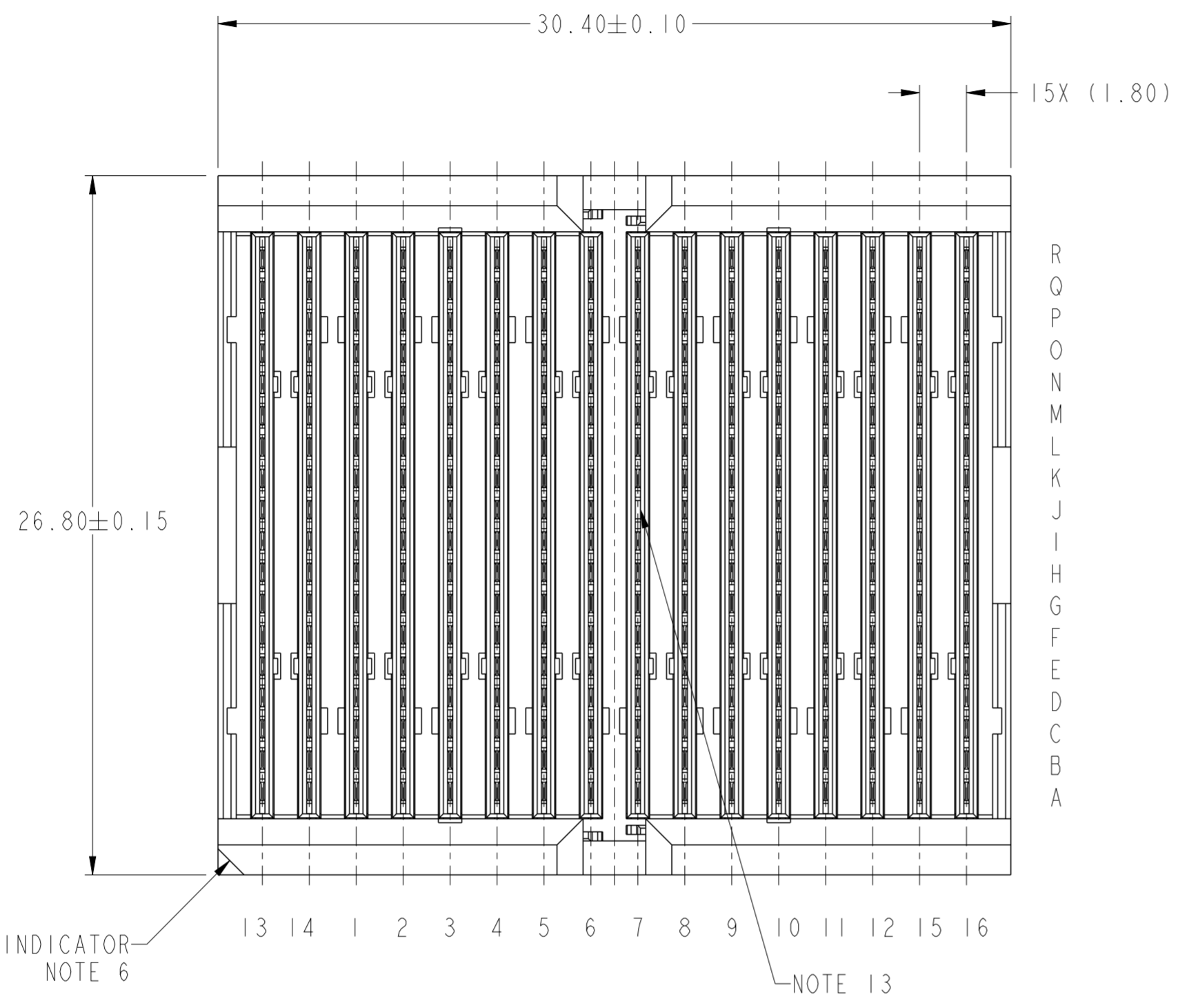
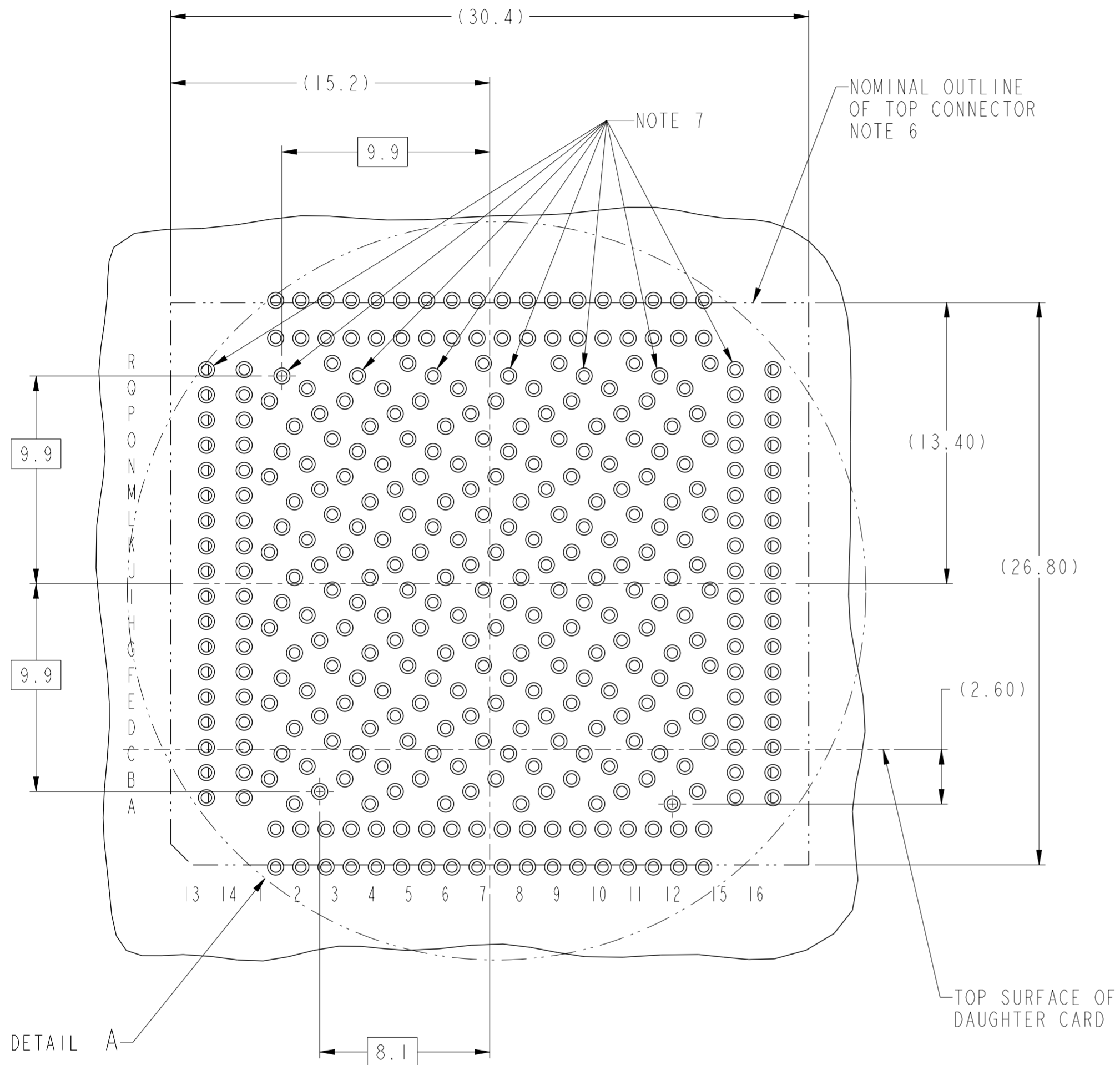


Product number  
SEE TABLE, SHT 6

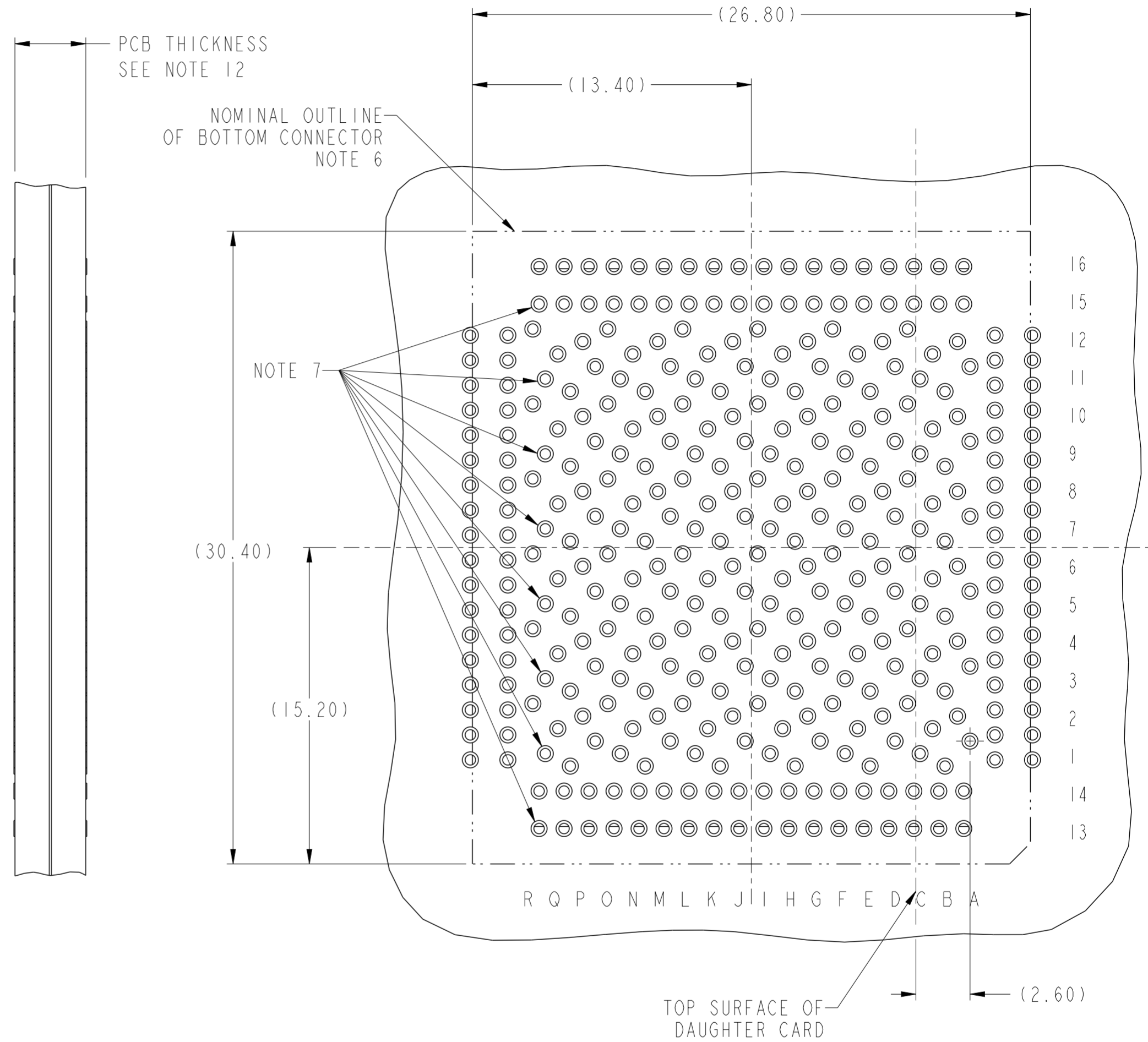


|               |         |               |                |             |    |  |    |                        |          |
|---------------|---------|---------------|----------------|-------------|----|--|----|------------------------|----------|
| spec ref      | dr      | Yong-Keat Lim | 2009/09/11     | projection  | MM | size                                   | A2 | scale                  | 5:1      |
| tolerance std | eng     | Yong-Keat Lim | 2011/06/17     |             |    | ecn no                                 | -  | rel level              | Released |
| ASME Y14.5    | chr     | -             | product family |             |    |  |    |                        |          |
|               | appr    | Chen-Hong Tan | 2011/06/17     |             |    | <b>ZipLine VERT HDR SPECIAL 6 PR</b>   |    | 10084174               | rev<br>A |
| surface       | linear  | 0.X           | $\pm 0.3$      | www.fci.com |    | 16 COLUMN, 2+12+2, 1.8mm PITCH, 30.6mm |    | Product - Customer Drw |          |
| ASME Y14.5    | angular | 0°            | $\pm 2^\circ$  | cat. no.    |    | sheet 1 of 6                           |    | STATUS:Released        |          |

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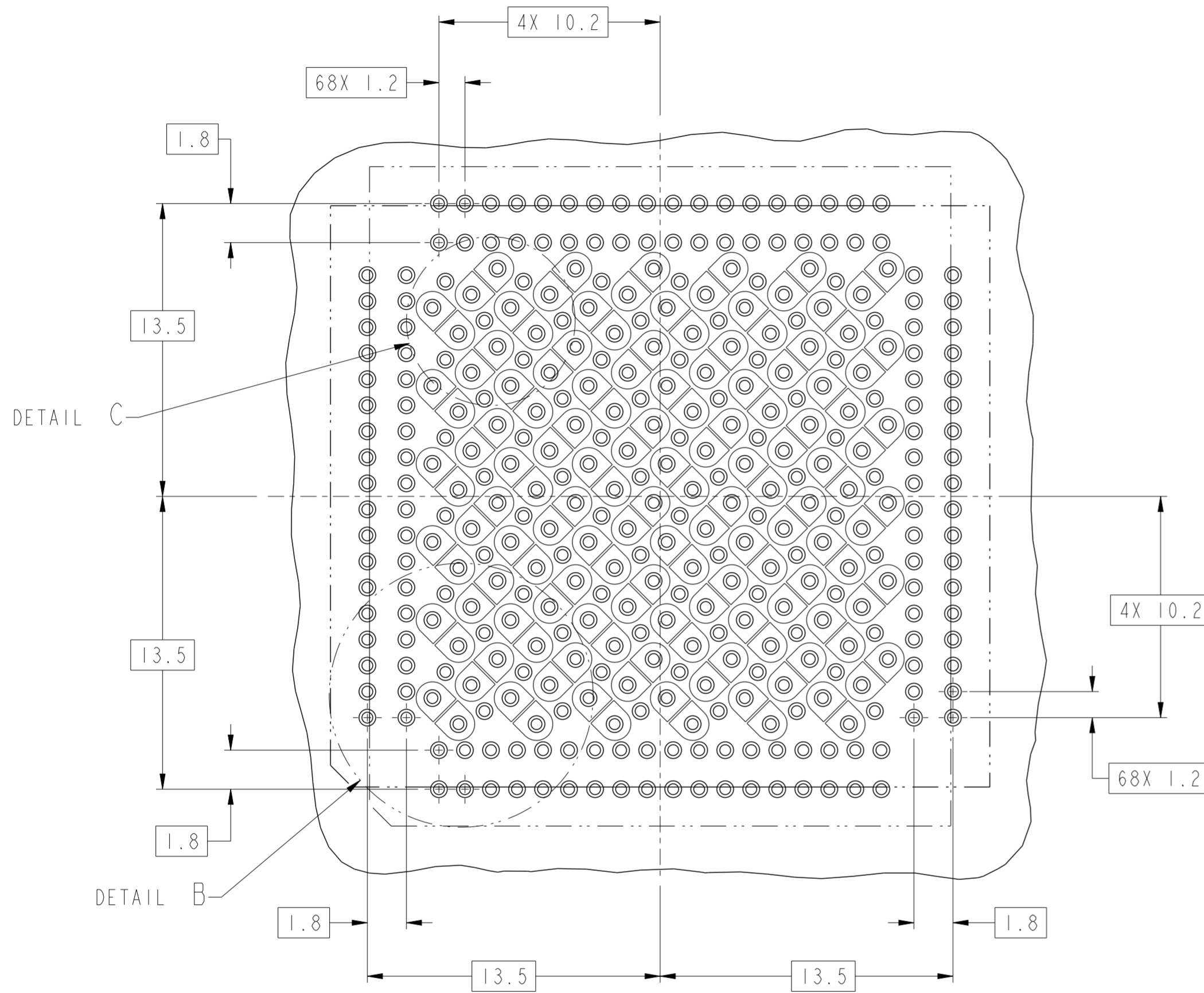
RECOMMENDED PCB LAYOUT  
TOP PCB VIEW



RECOMMENDED PCB LAYOUT  
BOTTOM PCB VIEW

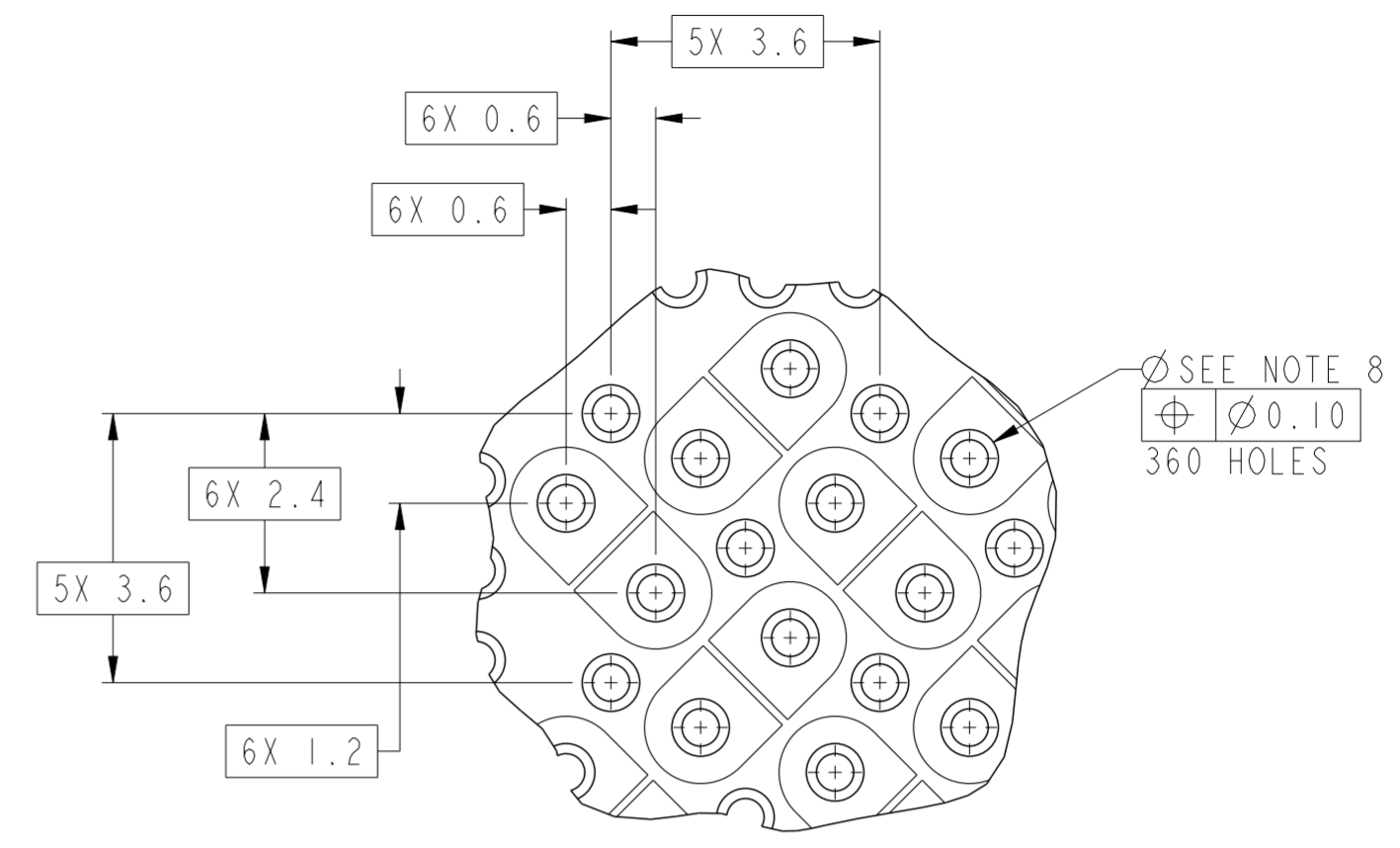
RECOMMENDED PCB LAYOUT  
WHEN USING 10084174 TOP AND BOTTOM

|               |         |               |            |                |  |                        |              |           |          |
|---------------|---------|---------------|------------|----------------|--|------------------------|--------------|-----------|----------|
| spec ref      | dr      | Yong-Keat Lim | 2009/09/11 | projection     | MM   | size                   | A2           | scale     | 5:1      |
| tolerance std | eng     | Yong-Keat Lim | 2011/06/17 |                |  | ecn no                 | -            | rel level | Released |
| ASME Y14.5    | chr     | -             | 2011/06/17 |                |  |                        |              |           |          |
|               | appr    | Chen-Hong Tan | 2011/06/17 | product family | ZipLine  | rel level              | Released     |           |          |
| surface       | linear  | 0.X           | ±0.3       |                | title<br>ZipLine VERT HDR SPECIAL 6 PR<br>16 COLUMN, 2+12+2, 1.8mm PITCH, 30.6mm | drawing no<br>10084174 | rev<br>A     |           |          |
|               |         | 0.XX          | ±0.10      |                |  |                        |              |           |          |
|               |         | 0.XXX         | ±0.050     |                |  |                        |              |           |          |
| ASME Y14.5    | angular | 0°            | ±2°        | www.fci.com    | cat. no.   | Product - Customer Drw | sheet 2 of 6 |           |          |

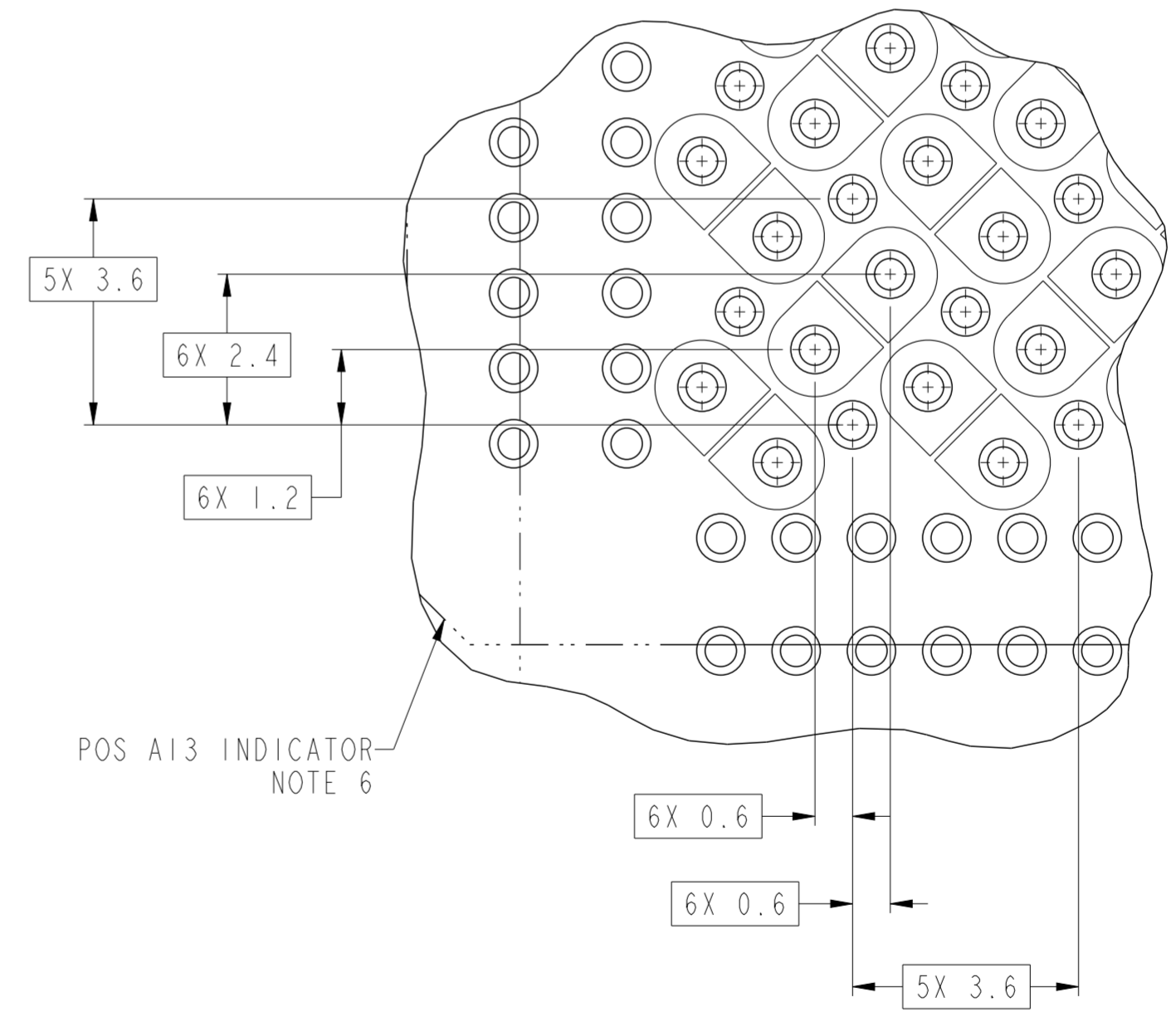


PCB LAYOUT SHOWN WITH DIFFERENTIAL ORTHOGONAL AND SINGLE ENDED NON-ORTHOGONAL PATTERNS

VIEW A



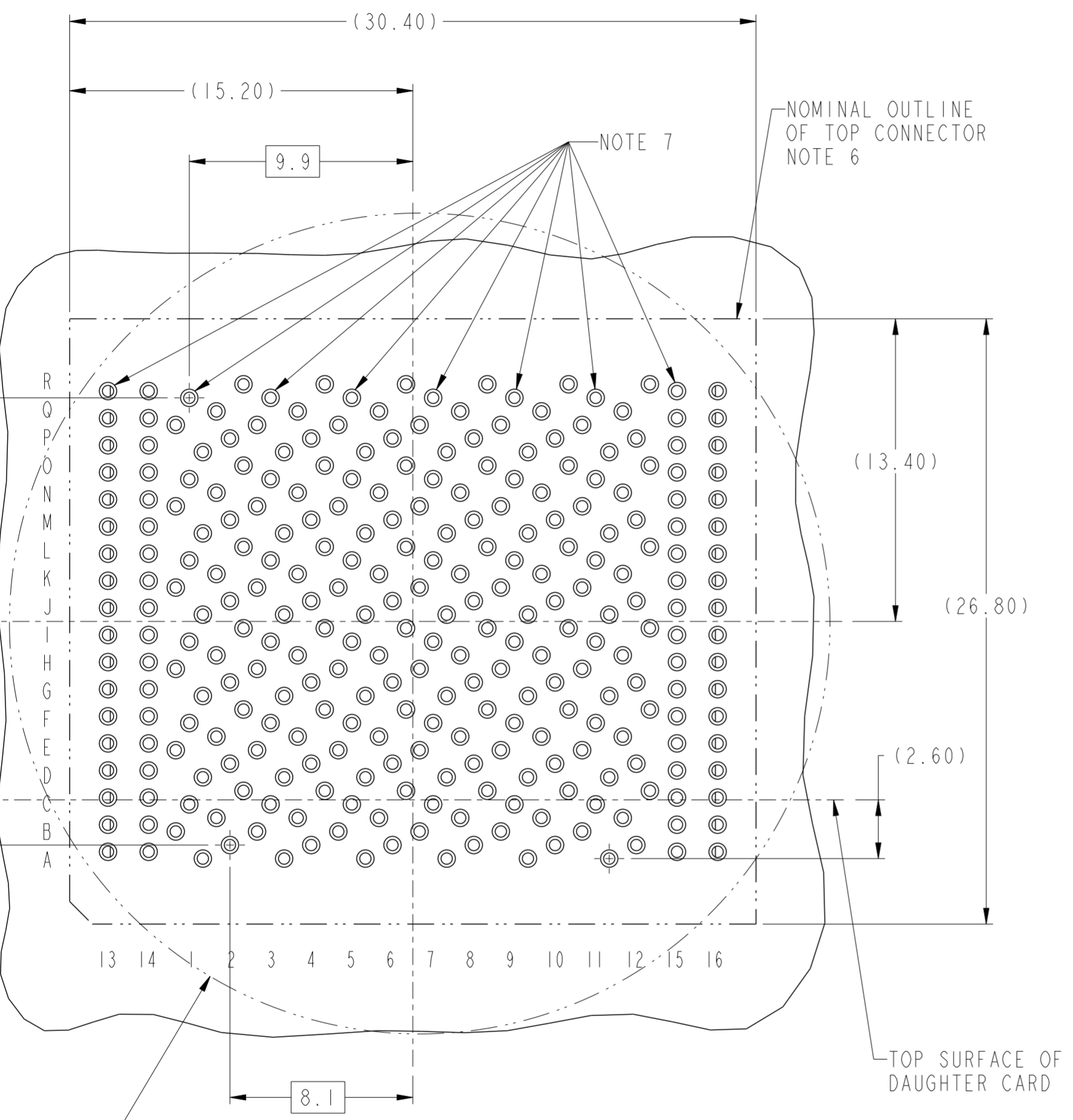
VIEW C  
SCALE: 10:1



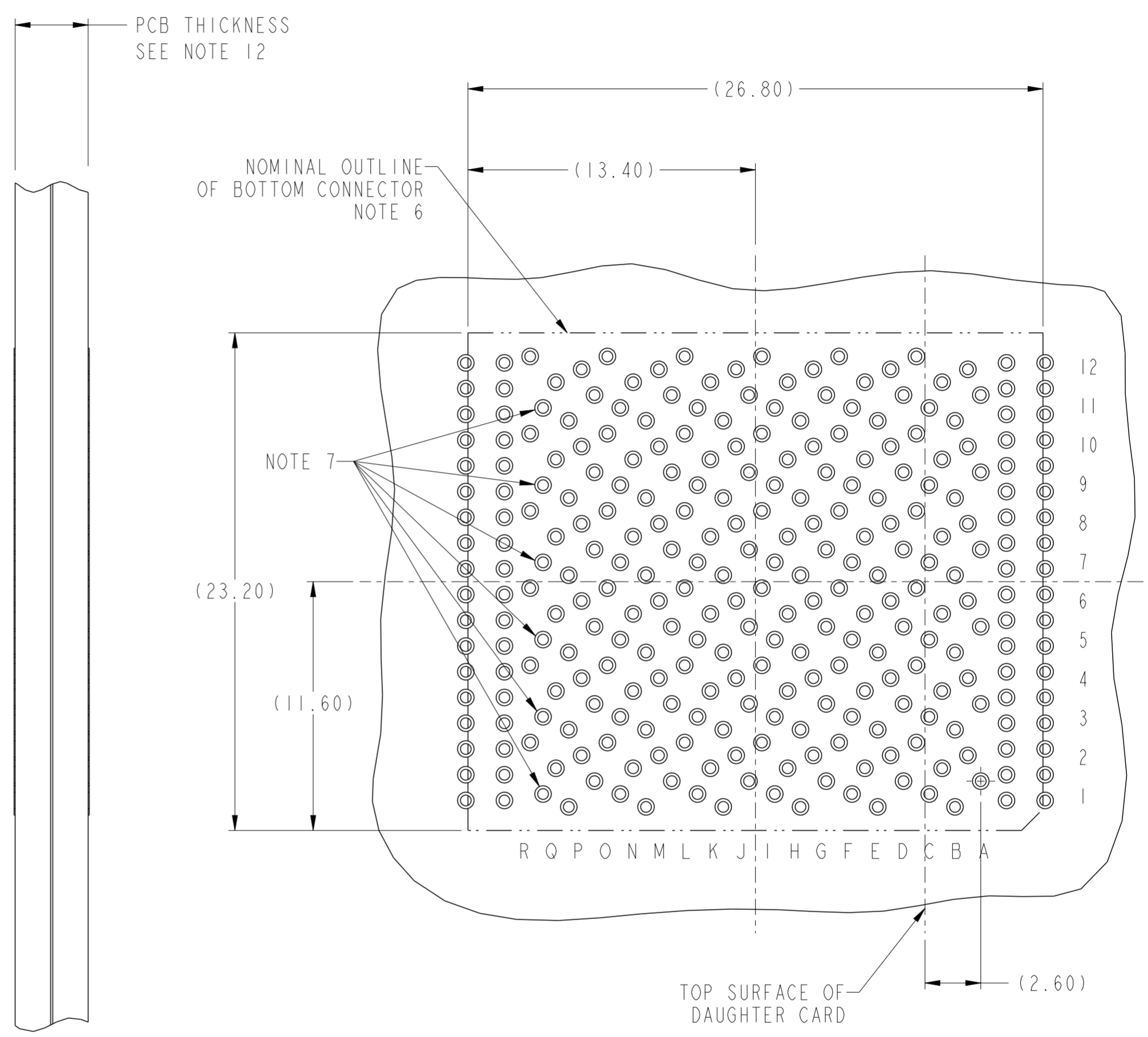
VIEW B  
SCALE: 10:1

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|               |         |               |            |                |  |                    |                        |              |          |
|---------------|---------|---------------|------------|----------------|--|--------------------|------------------------|--------------|----------|
| spec ref      | dr      | Yong-Keat Lim | 2009/09/11 | projection     | MM   | size               | A2                     | scale        | 5:1      |
| tolerance std | eng     | Yong-Keat Lim | 2011/06/17 |                |  | ecn no             | -                      | rel level    | Released |
| ASME Y14.5    | chr     | -             | 2011/06/17 |                |  |                    |                        |              |          |
|               | appr    | Chen-Hong Tan | 2011/06/17 | product family | ZipLine  |                    |                        |              |          |
| surface       | linear  | 0.X           | ±0.3       |                | title<br>ZipLine VERT HDR SPECIAL 6 PR<br>16 COLUMN, 2+12+2, 1.8mm PITCH, 30.6mm | dwg no<br>10084174 | rev<br>A               |              |          |
|               |         | 0.XX          | ±0.10      |                |  |                    |                        |              |          |
|               |         | 0.XXX         | ±0.050     |                |  |                    |                        |              |          |
| ASME Y14.5    | angular | 0°            | ±2°        | www.fci.com    | cat. no.   | -                  | Product - Customer Drw | sheet 3 of 6 |          |



RECOMMENDED PCB LAYOUT  
TOP PCB VIEW

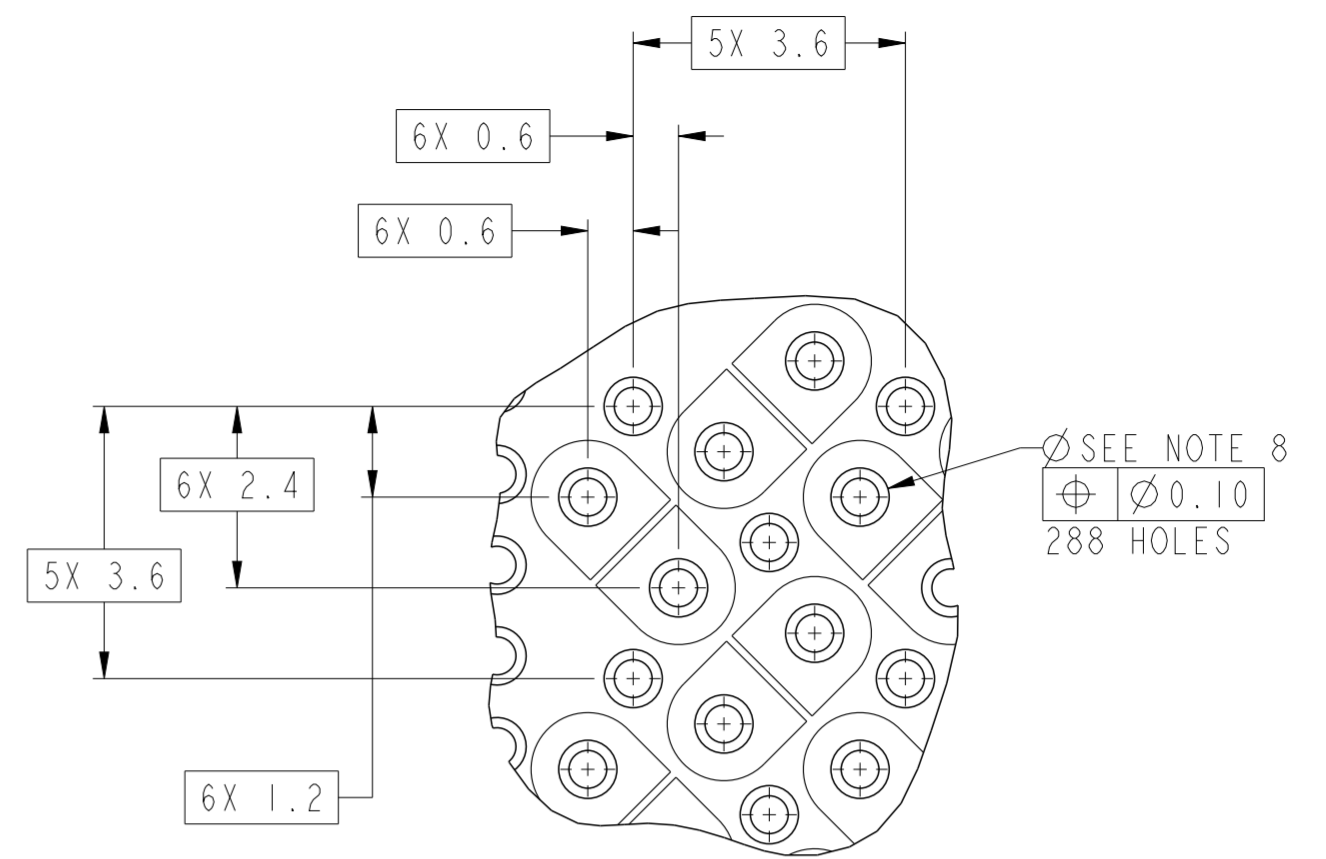
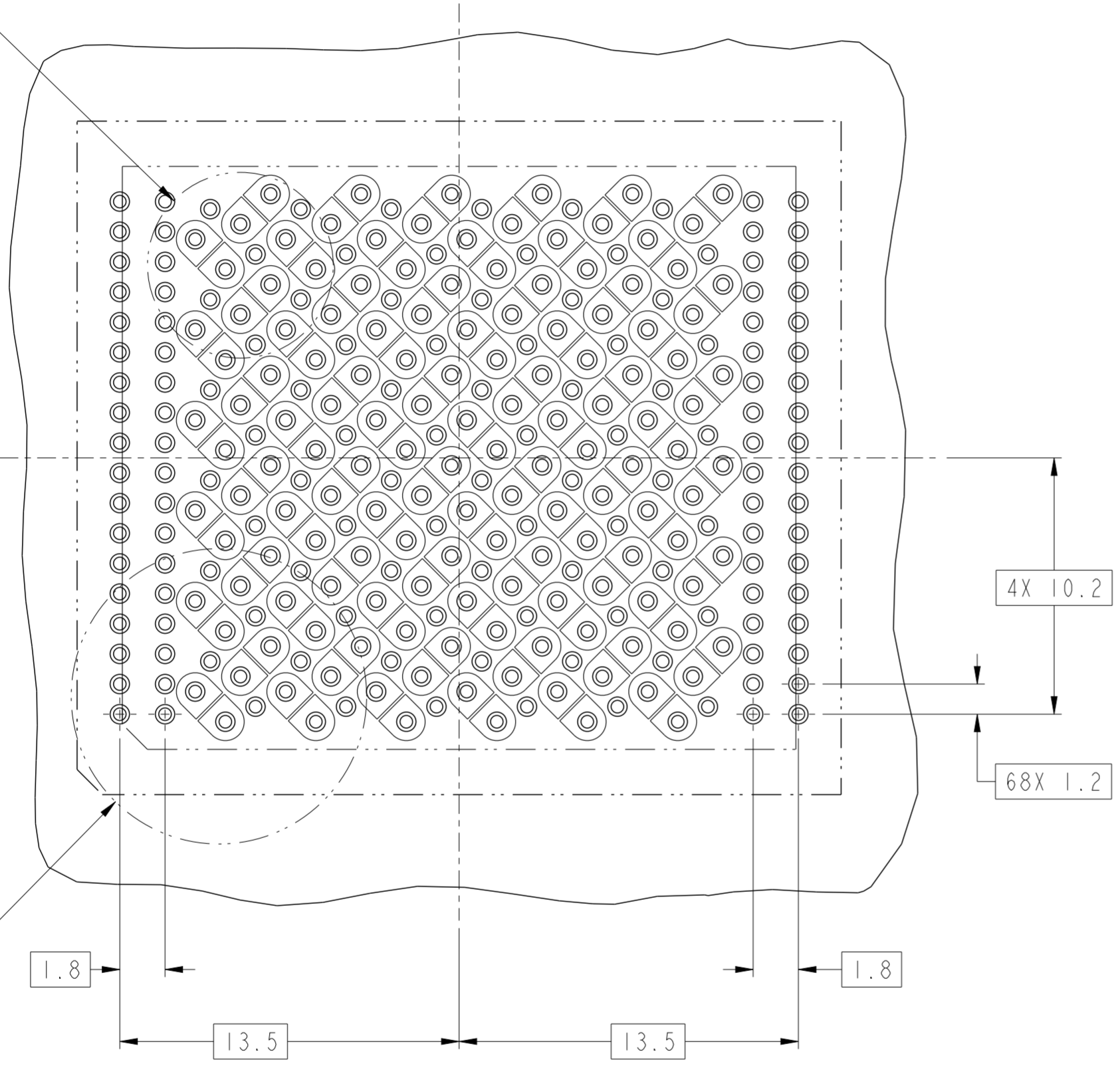


RECOMMENDED PCB LAYOUT  
BOTTOM PCB VIEW

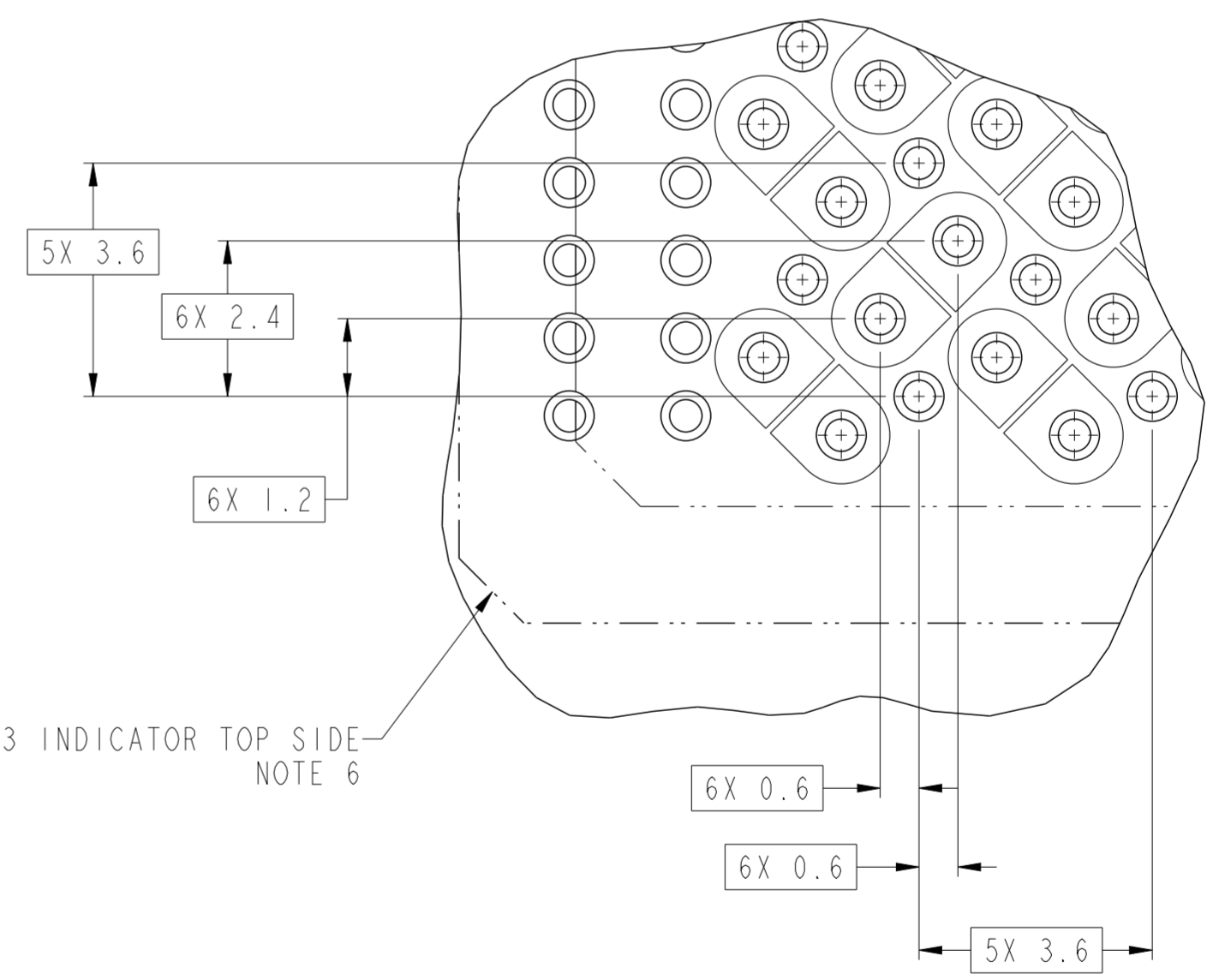
RECOMMENDED PCB LAYOUT  
WHEN USING 10084174 ON THE TOP  
AND 10080640 ON THE BOTTOM

|               |         |               |            |                |  |                        |              |           |          |
|---------------|---------|---------------|------------|----------------|--|------------------------|--------------|-----------|----------|
| spec ref      | dr      | Yong-Keat Lim | 2009/09/11 | projection     | MM   | size                   | A2           | scale     | 5:1      |
| tolerance std | eng     | Yong-Keat Lim | 2011/06/17 |                |  | ecn no                 | -            | rel level | Released |
| ASME Y14.5    | chr     | -             | 2011/06/17 |                |  |                        |              |           |          |
|               | appr    | Chen-Hong Tan | 2011/06/17 | product family | ZipLine  | rel level              | Released     |           |          |
| surface       | linear  | 0.X           | ±0.3       |                | <b>ZipLine VERT HDR SPECIAL 6 PR</b><br>16 COLUMN, 2+12+2, 1.8mm PITCH, 30.6mm | dwg no<br>10084174     | rev<br>A     |           |          |
|               |         | 0.XX          | ±0.10      |                |  |                        |              |           |          |
|               |         | 0.XXX         | ±0.050     |                |  |                        |              |           |          |
| ASME Y14.5    | angular | 0°            | ±2°        | www.fci.com    | cat. no.   | Product - Customer Drw | sheet 4 of 6 |           |          |

DETAIL E



POS A13 INDICATOR TOP SIDE  
 NOTE 6



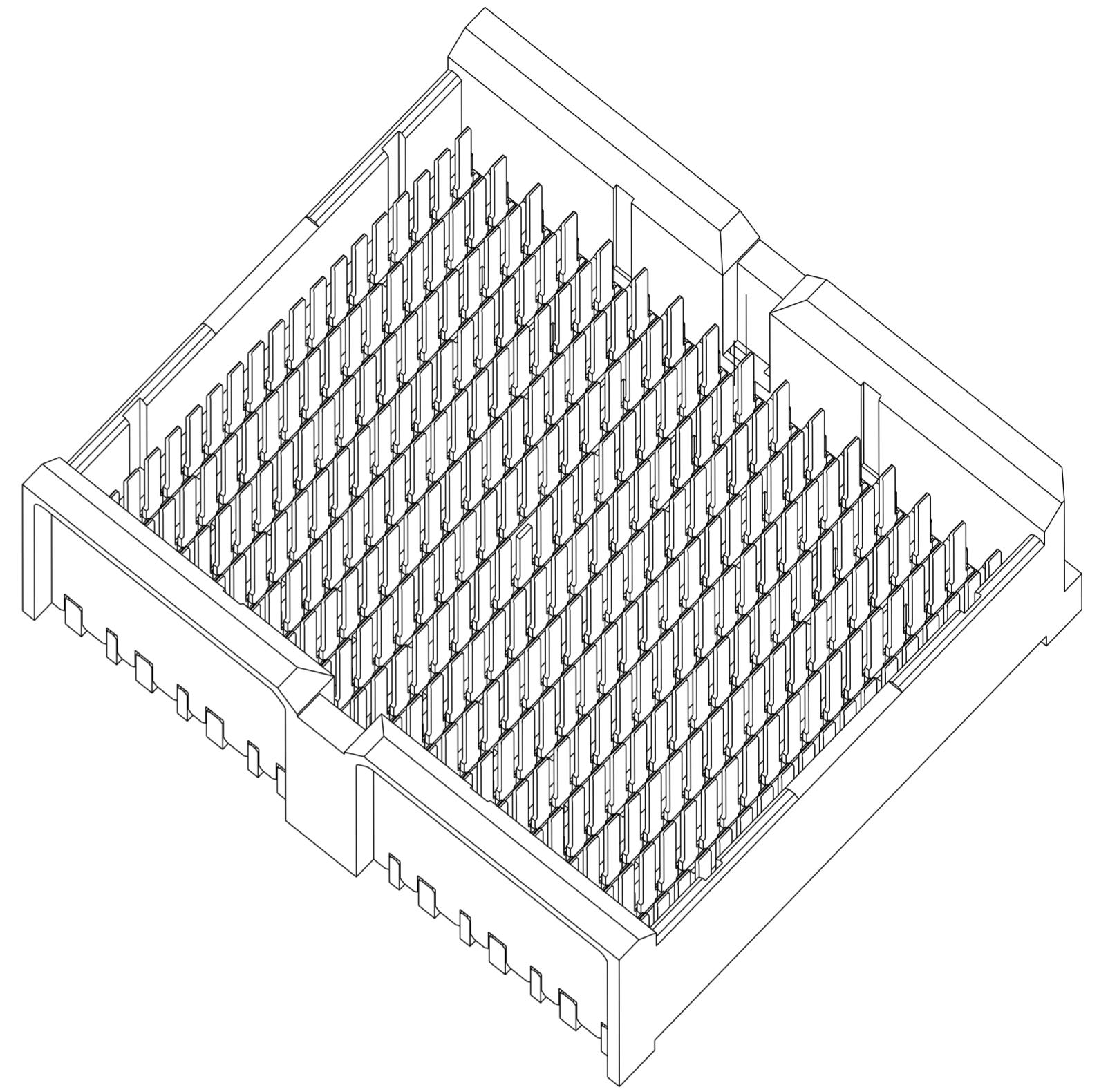
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|               |         |               |               |                |  |                        |              |           |          |
|---------------|---------|---------------|---------------|----------------|--|------------------------|--------------|-----------|----------|
| spec ref      | dr      | Yong-Keat Lim | 2009/09/11    | projection     | MM   | size                   | A2           | scale     | 5:1      |
| tolerance std | eng     | Yong-Keat Lim | 2011/06/17    |                |  | ecn no                 | -            | rel level | Released |
| ASME Y14.5    | chr     | -             | 2011/06/17    |                |  |                        |              |           |          |
|               | appr    | Chen-Hong Tan | 2011/06/17    | product family | ZipLine  | rel level              | Released     |           |          |
| surface       | linear  | 0.X           | $\pm 0.3$     |                | TITLE<br>ZipLine VERT HDR SPECIAL 6 PR<br>16 COLUMN, 2+12+2, 1.8mm PITCH, 30.6mm | dwg no<br>10084174     | rev<br>A     |           |          |
|               |         | 0.XX          | $\pm 0.10$    |                |  |                        |              |           |          |
|               |         | 0.XXX         | $\pm 0.050$   |                |  |                        |              |           |          |
| ASME Y14.5    | angular | 0°            | $\pm 2^\circ$ | www.fci.com    | cat. no.   | Product - Customer Drw | sheet 5 of 6 |           |          |

| PART NUMBER    | PRESS-FIT TAIL PLATING TYPE | SHORT DETECT CONTACT |
|----------------|-----------------------------|----------------------|
| 10084174-101   | TIN LEAD ALLOY OVER NICKEL  | NO                   |
| 10084174-101LF | TIN OVER NICKEL (LEAD FREE) | NO                   |
| 10084174-111   | TIN LEAD ALLOY OVER NICKEL  | YES                  |
| 10084174-111LF | TIN OVER NICKEL (LEAD FREE) | YES                  |

NOTES:

- CONNECTOR MATERIALS:  
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94V-0  
IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94V-0  
CONTACT: COPPER ALLOY
- CONTACT PLATING:  
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-452 INCLUDING TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST SEQUENCE  
PRESS-FIT TAILS: SEE TABLE
- PRODUCT SPECIFICATION: GS-12-452.
- APPLICATION SPECIFICATION: GS-20-094.
- PRODUCT MARKING, (PART NUMBER & LOT CODE), ON THESE SURFACES.
- CONNECTOR OUTLINE WITH HOUSING POS A13, A1 FOR 10080640, INDICATOR MAY BE SCREEN PRINTED ONTO CUSTOMER PCB TO BE USED AS A GUIDE FOR MANUAL CONNECTOR PLACEMENT.
- THERE IS NO GROUND BUSSING WITHIN THE HEADER CONNECTOR. HOWEVER, POSITIONS R1, R3, R5, R7, R9, R11, R13, & R15 OF THE MATING RECEPTACLE ARE BUSSED. THESE MUST BE ASSIGNED AS GROUNDS.
- REFER TO CUSTOMER DRAWING 10045979 FOR INFORMATION ON PCB HOLE DIAMETERS AND PLATING OPTIONS.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- PACKAGING MEETS GS-14-920 LEAD FREE LABELING SPECIFICATION.
- MINIMUM PCB THICKNESS TO BE 3.5mm FOR ORTHOGONAL APPLICATIONS.
- FOR -11X ASSEMBLIES, MATING PIN J7 HAS 0.60mm LESS NOMINAL WIPE THAN OTHER PINS.



10084174-111



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|               |         |               |            |                |  |                    |                        |              |          |
|---------------|---------|---------------|------------|----------------|--|--------------------|------------------------|--------------|----------|
| spec ref      | dr      | Yong-Keat Lim | 2009/09/11 | projection     | MM   | size               | A2                     | scale        | 5:1      |
| tolerance std | eng     | Yong-Keat Lim | 2011/06/17 |                |  | ecn no             | -                      | rel level    | Released |
| ASME Y14.5    | chr     | -             | 2011/06/17 |                |  |                    |                        |              |          |
|               | appr    | Chen-Hong Tan | 2011/06/17 | product family | ZipLine  |                    |                        |              |          |
| surface       | linear  | 0.X           | ±0.3       |                | <b>ZipLine VERT HDR SPECIAL 6 PR</b><br>16 COLUMN, 2+12+2, 1.8mm PITCH, 30.6mm | dwg no<br>10084174 | rev<br>A               |              |          |
|               |         | 0.XX          | ±0.10      |                |  |                    |                        |              |          |
|               |         | 0.XXX         | ±0.050     |                |  |                    |                        |              |          |
| ASME Y14.5    | angular | 0°            | ±2°        | www.fci.com    | cat. no.   | -                  | Product - Customer Drw | sheet 6 of 6 |          |

PDS: Rev :A

STATUS:Released

Printed: Jun 17, 2011