

10091777- X 0 E - X 0 X L F

8-COLUMN DIFFERENTIAL SIGNAL

LEAD-FREE DESIGNATION ONLY WITH APPLICABLE PLATING CODES

| LETTER | PERFORMANCE-BASED PLATING (SEE NOTE 2) |                |
|--------|--|----------------|
|        | TARGET APPLICATION                     | LEAD-FREE (LF) |
| B      | TELCORDIA CO                           | NO             |
| C      | TELCORDIA UE                           | NO             |
| D      | TELCORDIA CO                           | YES            |
| E      | TELCORDIA UE                           | YES            |

| MODULE DESCRIPTION                             | LETTER DESIGNATION REPRESENTED IN DASH NUMBER |   |   |   |   |   |   |   |   | BASE MODULE |
|--|---|---|---|---|---|---|---|---|---|-------------|
|  | J   | A | B | C | D | E | F | G | H |             |
| LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 3)  |   |   |   |   |   |   |   |   |   |             |
|  |   |   |   |   |   |   |   |   |   |             |
| RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 4) |   |   |   |   |   |   |   |   |   |             |
| OPEN MODULE (TWO WALL) (SEE SHEET 2)           | 0 (ZERO)                                      |   |   |   |   |   |   |   |   |             |
| LEFT WALL MODULE (SEE SHEET 5)                 | L   |   |   |   |   |   |   |   |   |             |
| RIGHT WALL MODULE (SEE SHEET 6)                | M   |   |   |   |   |   |   |   |   |             |
| FOUR WALL MODULE (SEE SHEET 7)                 | 1   |   |   |   |   |   |   |   |   |             |

| NUMBER | CONTACT MATING WIPE LENGTH |             | COMPLIANT PIN DRILL SIZE |
|--------|----------------------------|-------------|--------------------------|
|        | SIGNAL                     | WIDE GROUND |                          |
| 1      | 2                          | 4           | Ø0.55 [0.0217"]          |
| 2      | 3                          | 4           | Ø0.55 [0.0217"]          |
| 3      | 2                          | 4           | Ø0.45 [0.0177"]          |
| 4      | 3                          | 4           | Ø0.45 [0.0177"]          |
| 5      | 2                          | 3           | Ø0.55 [0.0217"]          |
| 6      | 3                          | 3           | Ø0.55 [0.0217"]          |
| 7      | 2                          | 3           | Ø0.45 [0.0177"]          |
| 8      | 3                          | 3           | Ø0.45 [0.0177"]          |

|               | GROUNDED     | UNGROUNDED  |
|---------------|--------------|-------------|
| FINISHED      | Ø2.35-2.55   | Ø2.35-2.55  |
| PAD           | Ø5.50        | N/A         |
| PLATED        | YES          | NO          |
| DRILL (mm/in) | 2.58 / .1015 | 2.44 / .096 |

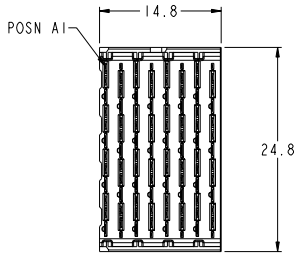
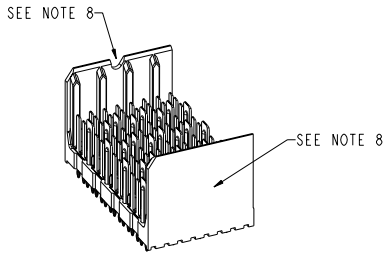
| SCREW P/N      | DESCRIPTION  | BOARD THICKNESS |
|----------------|--|-----------------|
| 10091790-002LF | #2-56 X .375" PHILLIPS PANHEAD W/SO CONICAL WASHER | 1.60 - 5.00     |
| 10091790-003LF | #2-56 X .500" PHILLIPS PANHEAD W/SO CONICAL WASHER | 5.00 - 10.00    |

|               |                                       |                 |             |                                   |                |              |            |               |          |              |    |
|---------------|---------------------------------------|-----------------|-------------|-----------------------------------|----------------|--------------|------------|---------------|----------|--------------|----|
| spec ref      | SEE NOTES                             | dr              | P. S. KUMAR | 2009-07-04                        | projection     | MM           | size       | A2            | scale    | 4:1          |    |
| tolerance std | ASME Y14.5                            | eng             | NG. R       | 2011-05-16                        | chr            | NG. R        | 2011-05-16 | ecn no        |          |              |    |
| ASME Y14.5    | TOLERANCES UNLESS OTHERWISE SPECIFIED | appr            | C. H. TAN   | 2011-05-16                        | product family |              | XCode      | rel level     | Released |              |    |
| surface       | linear                                | 0.1             | ±0.2        | 0.2X                              | ±0.10          | 0.2XX        | ±0.050     | ASME Y14.5    | angular  | Ø            | ±° |
| FCJ           |                                       | MODULE ASSEMBLY |             | VERTICAL HEADER, 8-COLUMN, 4-PAIR |                | SEE PIN TREE |            | part no.      | 10091777 | rev          | A  |
| www.fcj.com   |                                       | PDS: Rev :A     |             | STATUS: Released                  |                | Product      |            | Customer Draw |          | sheet 1 of 6 |    |

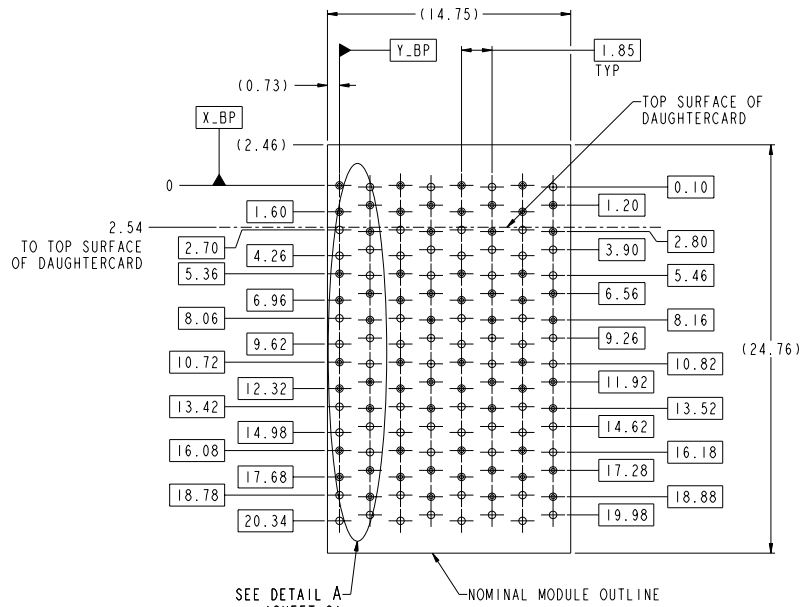
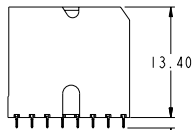
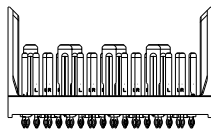
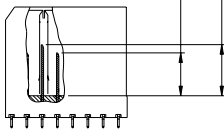
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OPEN (2-WALL) MODULE



- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE

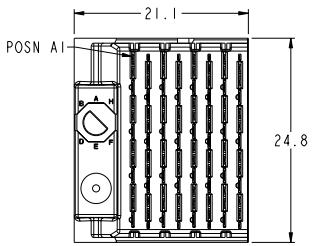
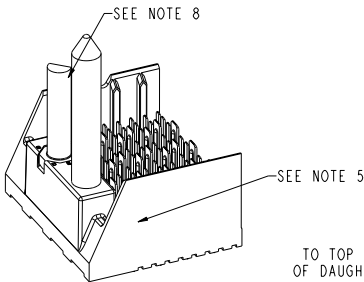


SEE DETAIL A (SHEET 8)  
NOMINAL MODULE OUTLINE  
PCB HOLE PATTERN  
COMPONENT SIDE  
SCALE 6:1

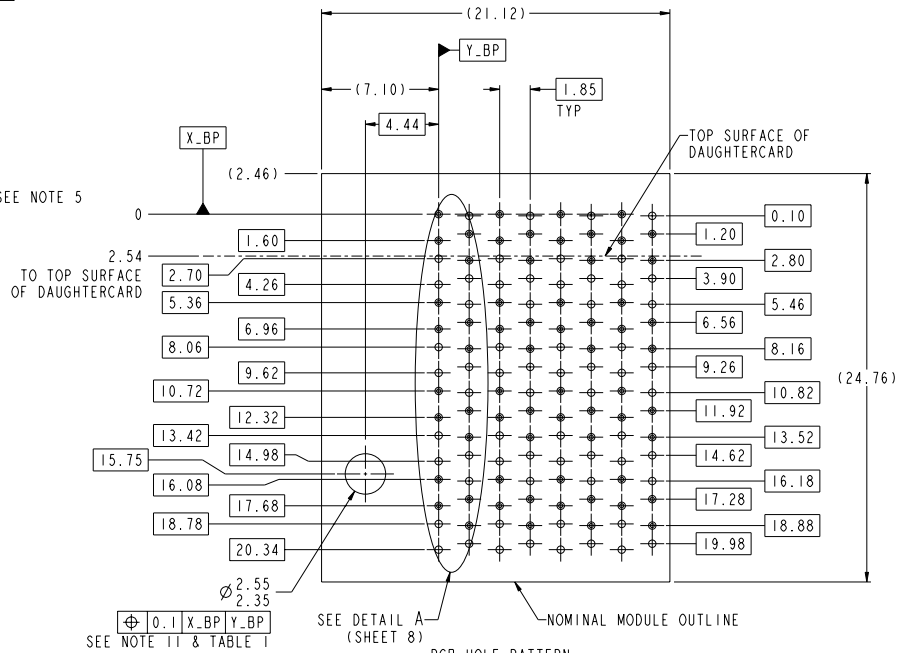
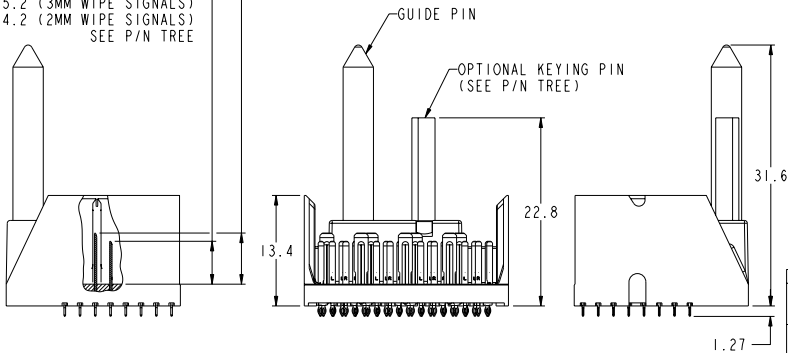
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|---------------|---------------------------------------|-------|-------------|------------|----------------|-------|------------|-----------|----------|-----|
| spec ref      | SEE NOTES                             | dr    | P. S. KUMAR | 2009-07-04 | projection     | MM    | size       | A2        | scale    | 4:1 |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng   | NG. R       | 2011-05-16 | chr            | NG. R | 2011-05-16 | ecn no    |          |     |
| ASME Y14.5    |                                       | appr  | C. H. TAN   | 2011-05-16 | product family |       | XCode      | rel level | Released |     |
| surface       | linear                                | 0.1   | ±0.2        |            |                |       |            |           |          |     |
|               |                                       | 0.2X  | ±0.10       |            |                |       |            |           |          |     |
| ASME Y14.5    | angular                               | 0.2XX | ±0.050      |            |                |       |            |           |          |     |
|               |                                       | 0°    | ±°          |            |                |       |            |           |          |     |

PDS: Rev :A STATUS:Released Printed: May 20, 2011

LEFT POLARIZING/GUIDE MODULE



- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE



SEE NOTE 11 & TABLE 1

SEE DETAIL A (SHEET 8)

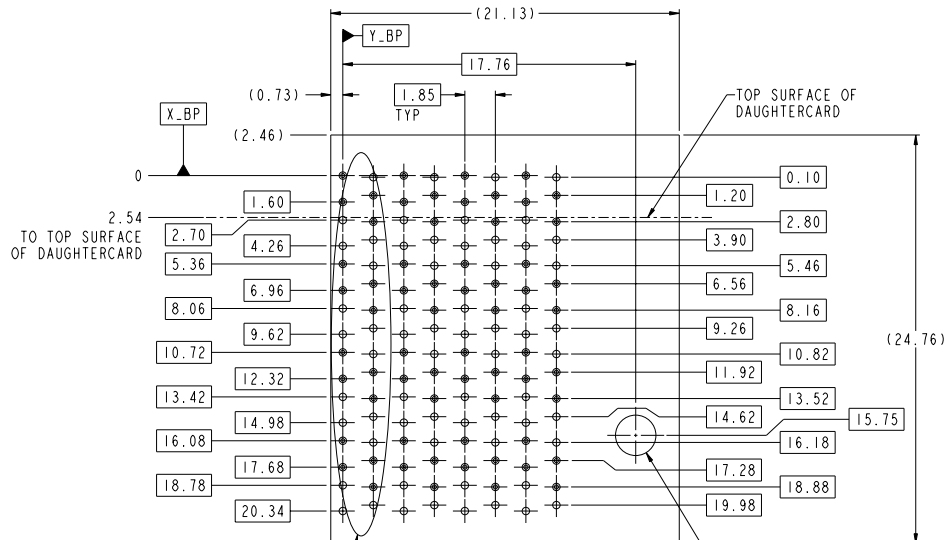
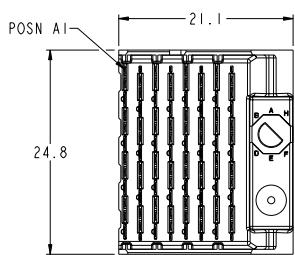
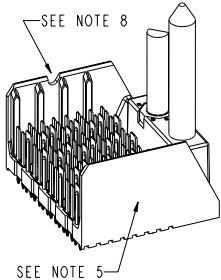
NOMINAL MODULE OUTLINE

|               |                                       |       |             |            |                |       |            |           |       |          |
|---------------|---------------------------------------|-------|-------------|------------|----------------|-------|------------|-----------|-------|----------|
| spec ref      | SEE NOTES                             | dr    | P. S. KUMAR | 2009-07-04 | projection     | MM    | size       | A2        | scale | 4:1      |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng   | NG. R       | 2011-05-16 | chr            | NG. R | 2011-05-16 | ecn no    |       | Released |
| ASME Y14.5    |                                       | appr  | C. H. TAN   | 2011-05-16 | product family |       | XCode      | rel level |       |          |
| surface       | linear                                | 0.1   | ±0.2        |            |                |       |            |           |       |          |
|               |                                       | 0.2X  | ±0.10       |            |                |       |            |           |       |          |
|               |                                       | 0.2XX | ±0.050      |            |                |       |            |           |       |          |
| ASME Y14.5    | angular                               | 0°    | ±°          |            |                |       |            |           |       |          |

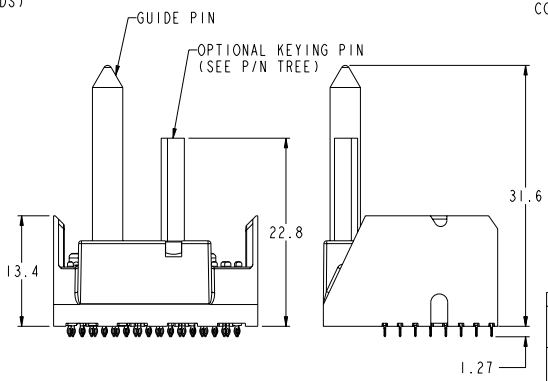
MODULE ASSEMBLY  
 VERTICAL HEADER, 8 COLUMN, 4-PAIR  
 SEE P/N TREE  
 Product: Customer Draw  
 10091777  
 rev A  
 sheet 3 of 6  
 PDS: Rev : A  
 STATUS: Released  
 Printed: May 20, 2011

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RIGHT POLARIZING/GUIDE MODULE



- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE



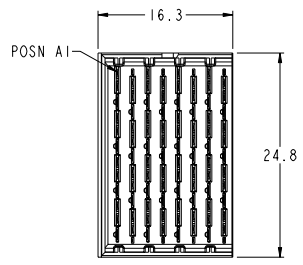
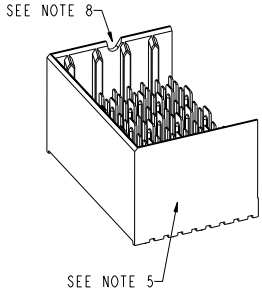
SEE DETAIL A (SHEET 8)  
 NOMINAL MODULE OUTLINE  
 PCB HOLE PATTERN COMPONENT SIDE SCALE 6:1  
 $\varnothing 2.55$   
 $\varnothing 2.35$   
 $\varnothing 0.10$  X\_BP Y\_BP  
 SEE NOTE 11 & TABLE 1

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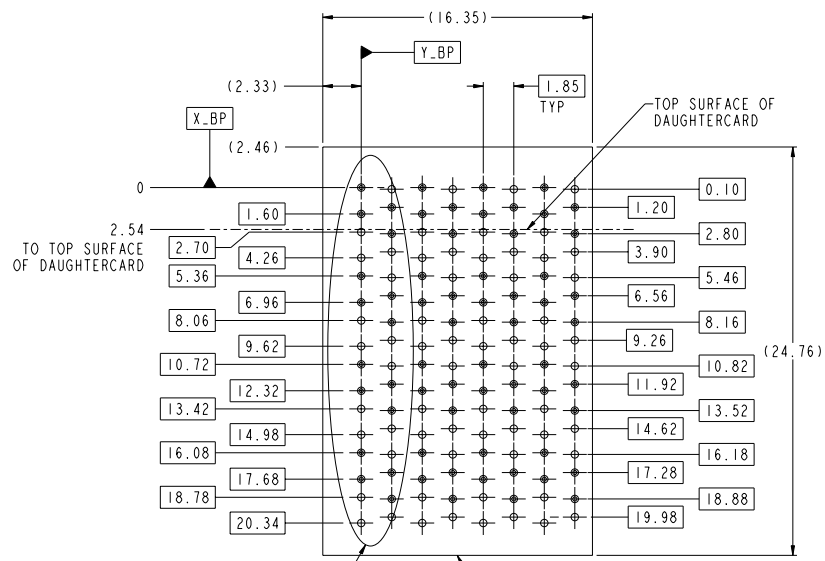
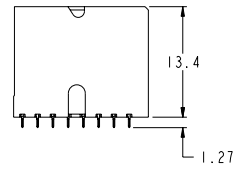
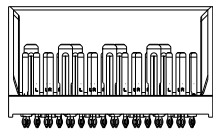
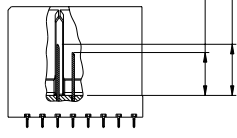
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|---------------|---------------------------------------|-------|-------------|------------|----------------|-------|------------|-----------|-------|----------|
| spec ref      | SEE NOTES                             | dr    | P. S. KUMAR | 2009-07-04 | projection     | MM    | size       | A2        | scale | 4:1      |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng   | NG. R       | 2011-05-16 | chr            | NG. R | 2011-05-16 | ecn no    |       | Released |
| ASME Y14.5    |                                       | appr  | C. H. TAN   | 2011-05-16 | product family |       | XCode      | rel level |       |          |
| surface       | linear                                | 0.1   | ±0.2        |            |                |       |            |           |       |          |
|               |                                       | 0.2X  | ±0.10       |            |                |       |            |           |       |          |
|               |                                       | 0.2XX | ±0.050      |            |                |       |            |           |       |          |
| ASME Y14.5    | angular                               | 0°    | ±°          |            |                |       |            |           |       |          |

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 MODULE ASSEMBLY  
 VERTICAL HEADER, 8 COLUMN, 4-PAIR  
 SEE P/N TREE  
 Product: Customer Draw  
 10091777  
 rev A  
 sheet 4 of 6  
 PDS: Rev: A STATUS: Released Printed: May 20, 2011

LEFT WALL MODULE



- 6.2 (4MM WIPE WIDE GROUNDS)
  - 5.2 (3MM WIPE WIDE GROUNDS)
  - 5.2 (3MM SMALL END GROUNDS)
  - 5.2 (3MM WIPE SIGNALS)
  - 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE



PCB HOLE PATTERN  
COMPONENT SIDE  
SCALE 6:1

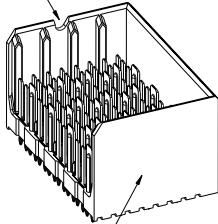
SEE DETAIL A  
(SHEET 8)

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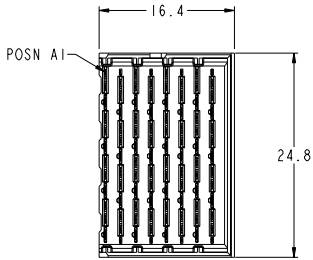
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|---------------|---------------------------------------|-------------|-------------|------------------|----------------|-----------------------------------|------------|---------------|--------------|----------|
| spec ref      | SEE NOTES                             | dr          | P. S. KUMAR | 2009-07-04       | projection     | MM                                | size       | A2            | scale        | 4:1      |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng         | NG. R       | 2011-05-16       | chr            | NG. R                             | 2011-05-16 | ecn no        |              | Released |
| ASME Y14.5    |                                       | appr        | C. H. TAN   | 2011-05-16       | product family |                                   | XCode      | rel level     |              |          |
| surface       | linear                                | 0.1         | ±0.2        |                  | FCJ            | MODULE ASSEMBLY                   | 10091777   | rev           | A            |          |
|               |                                       | 0.2X        | ±0.10       |                  |                | VERTICAL HEADER, 8 COLUMN, 4-PAIR |            |               |              |          |
| ASME Y14.5    | angular                               | 0°          | ±0.050      |                  | www.fcj.com    | SEE P/N TREE                      | Product    | Customer Draw | sheet 5 of 6 |          |
|               |                                       | PDS: Rev :A |             | STATUS: Released |                | Printed: May 20, 2011             |            |               |              |          |

RIGHT WALL MODULE

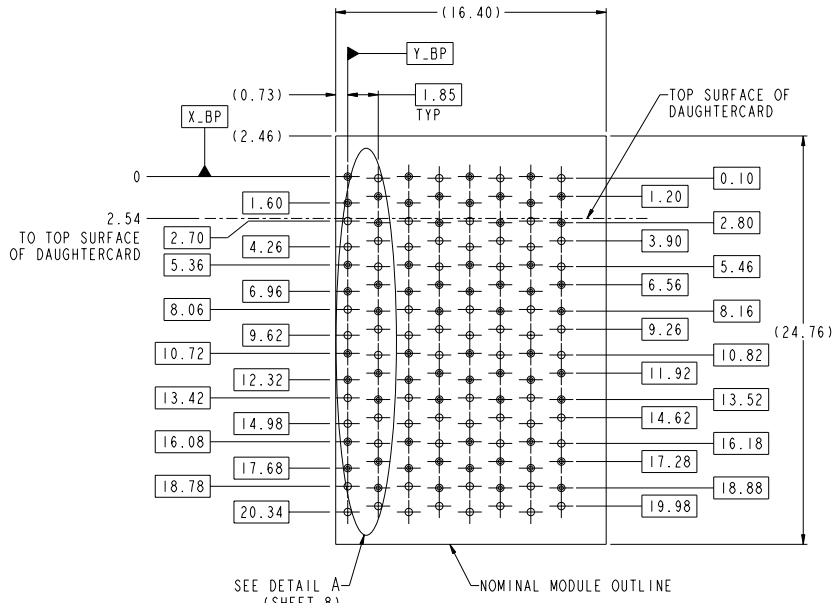
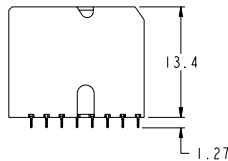
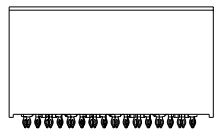
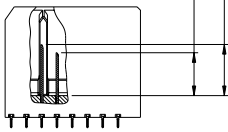
SEE NOTE 8



SEE NOTE 5



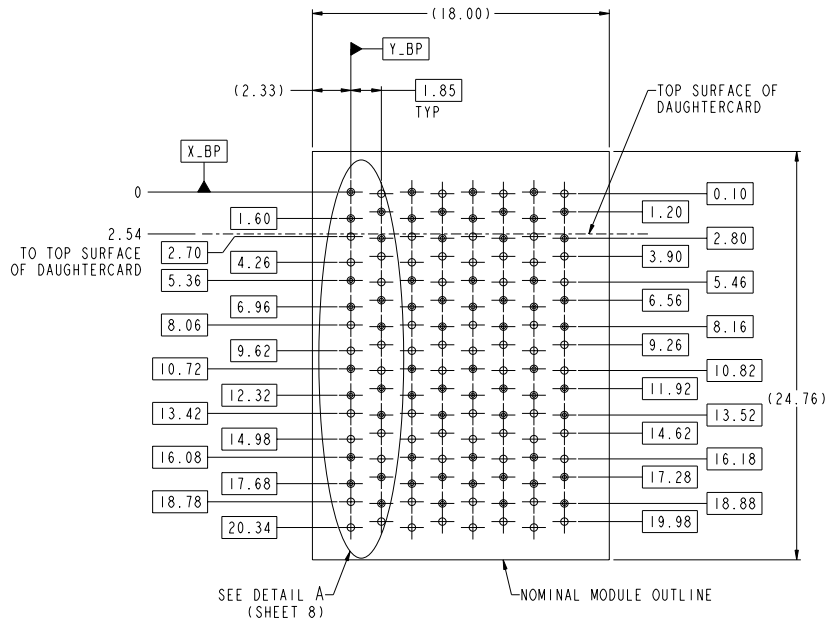
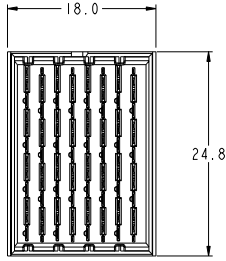
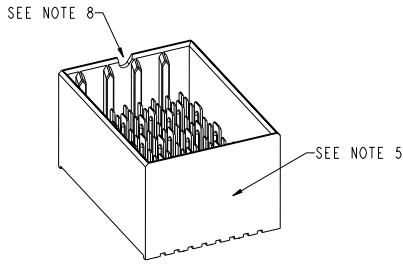
- 6.2 (4MM WIPE WIDE GROUNDS)
  - 5.2 (3MM WIPE WIDE GROUNDS)
  - 5.2 (3MM SMALL END GROUNDS)
  - 5.2 (3MM WIPE SIGNALS)
  - 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE



|               |                                       |             |             |                  |                |                          |               |              |          |          |
|---------------|---------------------------------------|-------------|-------------|------------------|----------------|--------------------------|---------------|--------------|----------|----------|
| spec ref      | SEE NOTES                             | dr          | P. S. KUMAR | 2009-07-04       | projection     | MM                       | size          | A2           | scale    | 4:1      |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng         | NG. R       | 2011-05-16       | chr            | NG. R                    | 2011-05-16    | ecn no       |          | Released |
| ASME Y14.5    |                                       | appr        | C. H. TAN   | 2011-05-16       | product family |                          | XCode         | rel level    |          |          |
| surface       | linear                                | 0.1         | ±0.2        |                  |                |                          |               |              |          |          |
|               |                                       | 0.2X        | ±0.10       |                  |                |                          |               |              |          |          |
| ASME Y14.5    | angular                               | 0°          | ±0.050      |                  |                |                          |               |              |          |          |
|               |                                       | www.fcj.com |             | cat. no.         | SEE P/N TREE   | Product                  | Customer Draw | rev          | 10091777 | A        |
|               |                                       | PDS: Rev :A |             | STATUS: Released |                | Printed: 18 May 20, 2011 |               | sheet 6 of 6 |          |          |

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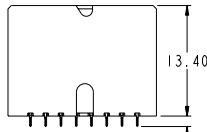
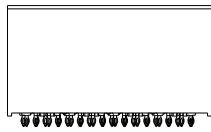
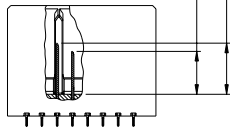
FOUR WALL MODULE



SEE DETAIL A (SHEET 8)

PCB HOLE PATTERN  
COMPONENT SIDE  
SCALE 6:1

- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE



|               |                                       |       |             |            |                |       |            |           |       |          |
|---------------|---------------------------------------|-------|-------------|------------|----------------|-------|------------|-----------|-------|----------|
| spec ref      | SEE NOTES                             | dr    | P. S. KUMAR | 2009-07-04 | projection     | MM    | size       | A2        | scale | 3:1      |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng   | NG. R       | 2011-05-16 | chr            | NG. R | 2011-05-16 | ecn no    |       | Released |
| ASME Y14.5    |                                       | appr  | C. H. TAN   | 2011-05-16 | product family |       | XCode      | rel level |       |          |
| surface       | linear                                | 0.1   | ±0.2        |            |                |       |            |           |       |          |
|               |                                       | 0.2X  | ±0.10       |            |                |       |            |           |       |          |
| ASME Y14.5    | angular                               | 0.2XX | ±0.050      |            |                |       |            |           |       |          |
|               |                                       | 0°    | ±°          |            |                |       |            |           |       |          |

FCJ  
MODULE ASSEMBLY  
VERTICAL HEADER, 8-COLUMN, 4-PAIR  
SEE P/N TREE  
Product: Customer Draw  
PDS: Rev: A  
STATUS: Released  
Printed: May 20, 2011

NOTES:

1. CONNECTOR MATERIALS  
SHROUD: HIGH-TEMP THERMOPLASTIC, UL94V-0  
CONTACTS: HIGH PERFORMANCE COPPER ALLOY

2. CONTACT PLATING:

SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCJ PRODUCT SPECIFICATION GS-12-588, INCLUDING THE TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE (CO) OR UNCONTROLLED ENVIRONMENT (UE) TEST SEQUENCE AS NOTED IN P/N TREE.

PRESS-FIT TAILS: TIN OVER NICKEL (LF), OR TIN-LEAD ALLOY OVER NICKEL (NON-LF). SEE P/N TREE.

3. PRODUCT SPECIFICATION: GS-12-588 (PRELIMINARY)

4. APPLICATION SPECIFICATION: GS-20-121 (PRELIMINARY)

5. PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.

6. HOUSING MUST WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR-PHASE REFLOW OVEN.

7. PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.

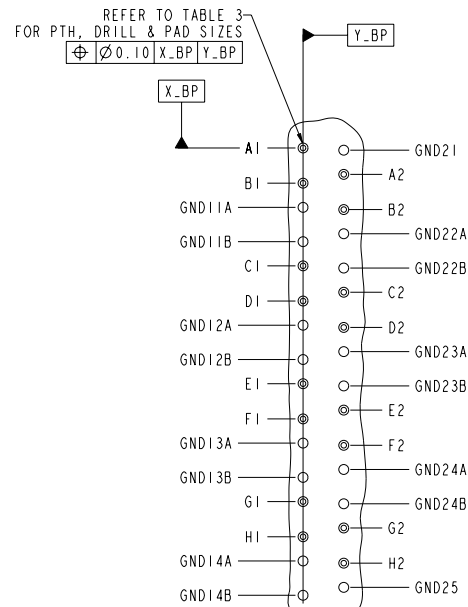
8. NOTCH INDICATES "ROW A" SIDE OF CONNECTOR.

9. SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PN SELECTION, ETC.

10. SCREW IS OPTIONAL AND ENGAGES WITH BOTTOM OF GUIDE-PIN FROM BENEATH THE PCB FOR ADDITIONAL GUIDE-PIN SUPPORT.

11. OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.

| TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL |             |        |
|--|-------------|--------|
| COMPLIANT PIN DRILL  | PTH         | PAD    |
| Ø 0.55 [0.0217"]   | Ø 0.45±0.05 | Ø 0.85 |
| Ø 0.45 [0.0177"]   | Ø 0.36±0.05 | Ø 0.75 |



DETAIL A  
SCALE 8:1

|               |                                       |             |             |              |                |               |            |           |       |              |
|---------------|---------------------------------------|-------------|-------------|--------------|----------------|---------------|------------|-----------|-------|--------------|
| spec ref      | SEE NOTES                             | dr          | P. S. KUMAR | 2009-07-04   | projection     | MM            | size       | A2        | scale | 4:1          |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng         | NG. R       | 2011-05-16   | chr            | NG. R         | 2011-05-16 | ecm no    |       | Released     |
| ASME Y14.5    |                                       | appr        | C. H. TAN   | 2011-05-16   | product family |               | XCode      | rel level |       |              |
| surface       | linear                                | 0.1         | ±0.2        | 0.25         | ±0.10          | 0.25          | ±0.050     |           |       |              |
| ASME Y14.5    | angular                               | 0°          | ±°          |              |                |               |            |           |       |              |
|               |                                       | www.fcj.com | cat. no.    | SEE P/N TREE | Product        | Customer Draw | 10091777   | rev       | A     | sheet 8 of 8 |

PDS: Rev: A

STATUS: Released

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