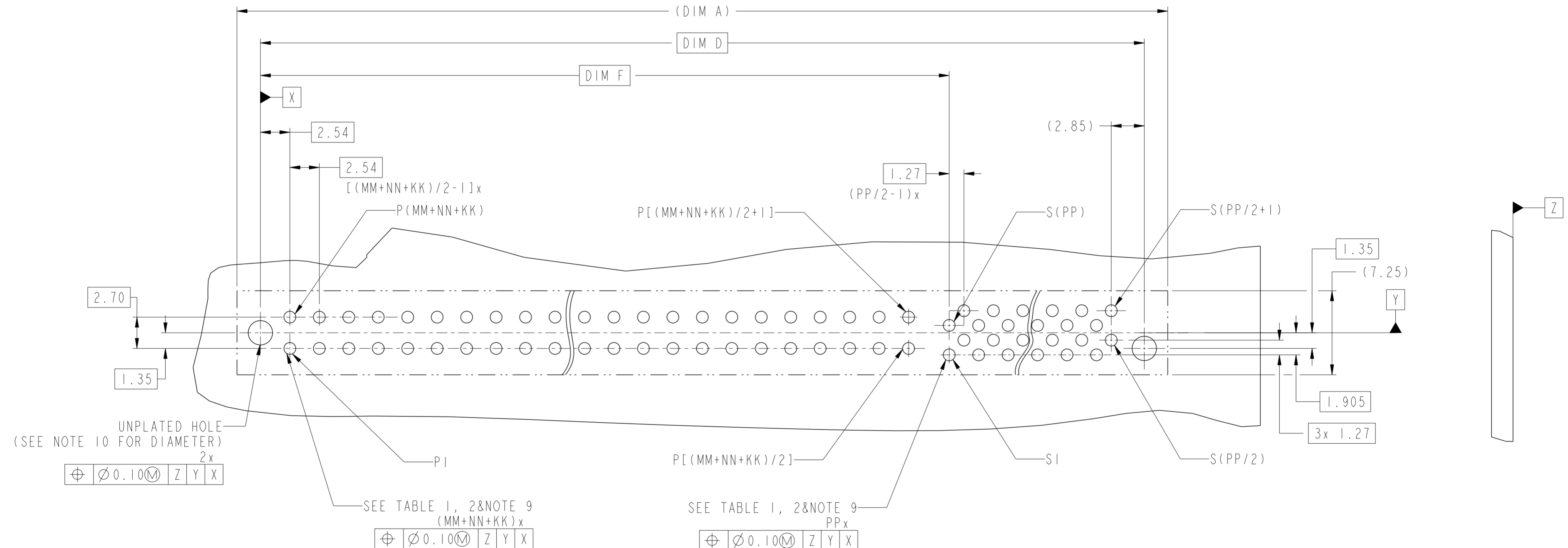


|                                       |                     |         |            |            |             |          |                        |                              |              |                                |
|---------------------------------------|---------------------|---------|------------|------------|-------------|----------|------------------------|------------------------------|--------------|--------------------------------|
| spec ref                              | -                   | dr      | De-Ming Lu | 2013/1103  | projection  | MM       | size                   | A2                           | scale        | 4:1                            |
| tolerance std                         | ISO 406<br>ISO 1101 | eng     | De-Ming Lu | 2014/02/19 |             |          | ecn no                 | -                            | rel level    | Released                       |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |                     | chr     | -          | app        |             |          |                        |                              |              |                                |
| surface                               | ISO 1302            | linear  | 0.X        | ±0.5       |             |          | title                  | VERT REC WITH ENHANCED WALLS |              | dwg no<br>10127905<br>rev<br>A |
|                                       |                     | angular | 0°         | ±2°        | www.fci.com | cat. no. | Product - Customer Drw |                              | sheet 1 of 4 |                                |

| CONTACT TYPE   | TOP LAYER DESCRIPTION | TABLE 1 (HPCE / SOLDER TAILS)<br>PLATED THROUGH-HOLE REQUIREMENTS |                  |                    |               |                        |
|----------------|-----------------------|---|------------------|--------------------|---------------|------------------------|
|                |                       | DRILLED HOLE DIAMETER   | COPPER THICKNESS | TIN-LEAD THICKNESS | TIN THICKNESS | FINISHED HOLE DIAMETER |
| POWER & SIGNAL | TIN-LEAD              | 1.10-1.16 (1.15 DRILL)  | 0.025 - 0.050    | 0.005 - 0.015      | --            | 0.94 - 1.10            |
|                | IMMERSION TIN         | 1.10-1.16 (1.15 DRILL)  | 0.025 - 0.050    | --                 | 0.9 - 1.5um   | 0.94 - 1.10            |
|                | COPPER (SEE NOTE 8)   | 1.10-1.16 (1.15 DRILL)  | 0.025 - 0.050    | --                 | --            | 0.94 - 1.10            |

| CONTACT TYPE   | TOP LAYER DESCRIPTION | TABLE 2 (HPCE / PRESS-FIT TAILS)<br>PLATED THROUGH-HOLE REQUIREMENTS |                  |                    |               |                        |
|----------------|-----------------------|--|------------------|--------------------|---------------|------------------------|
|                |                       | DRILLED HOLE DIAMETER  | COPPER THICKNESS | TIN-LEAD THICKNESS | TIN THICKNESS | FINISHED HOLE DIAMETER |
| POWER & SIGNAL | TIN-LEAD              | 0.81-0.86 (0.85 DRILL)   | 0.025 - 0.050    | 0.005 - 0.015      | --            | 0.65 - 0.80            |
|                | IMMERSION TIN         | 0.81-0.86 (0.85 DRILL)   | 0.025 - 0.050    | --                 | 0.9 - 1.5um   | 0.70 - 0.80            |
|                | COPPER (SEE NOTE 8)   | 0.81-0.86 (0.85 DRILL)   | 0.025 - 0.050    | --                 | --            | 0.70 - 0.80            |



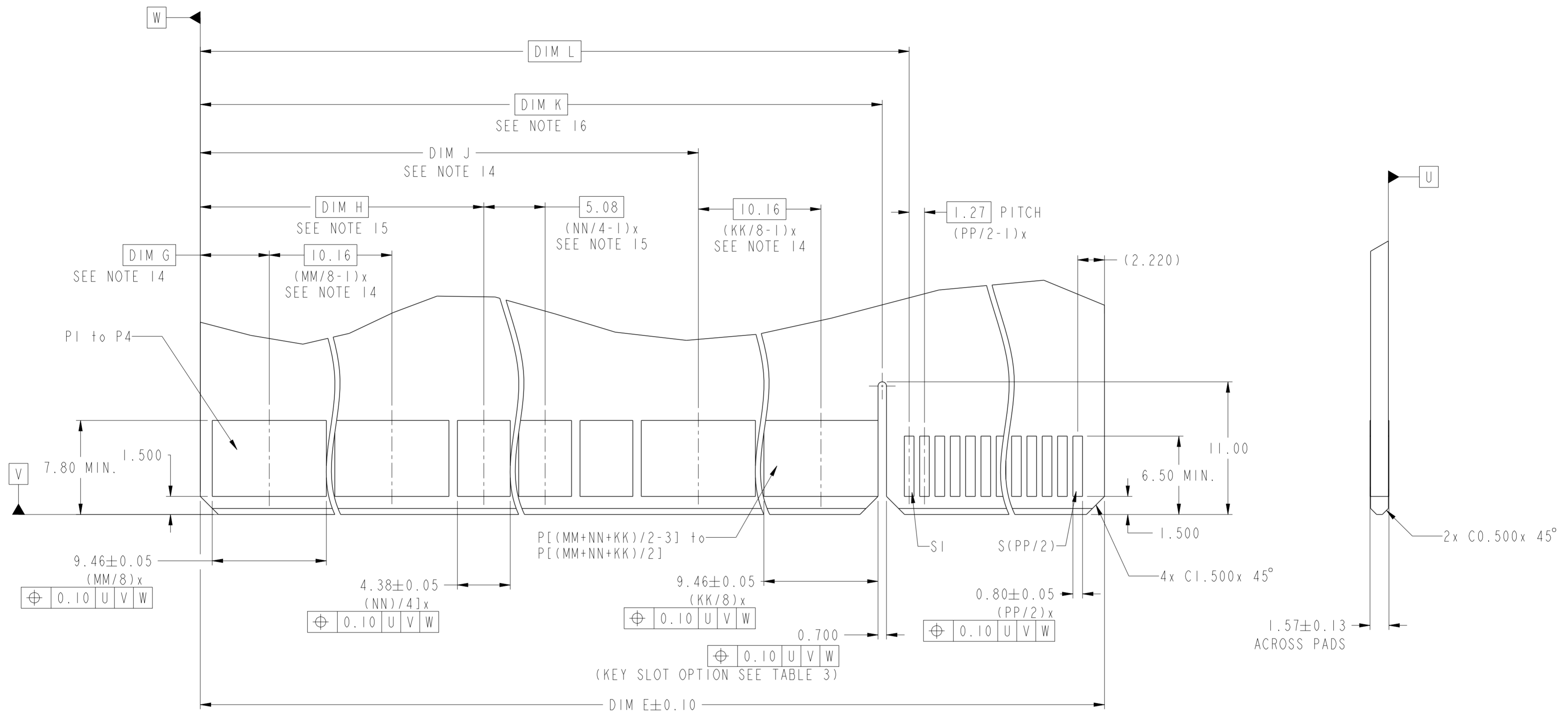
Copyright FCI.

|               |                     |      |                |            |                |      |                        |              |           |          |
|---------------|---------------------|------|----------------|------------|----------------|------|------------------------|--------------|-----------|----------|
| spec ref      | -                   | dr   | De-Ming Lu     | 2013/1103  | projection     | MM   | size                   | A2           | scale     | 4:1      |
| tolerance std | ISO 406<br>ISO 1101 | eng  | De-Ming Lu     | 2014/02/19 | chr            | -    | ecn no                 | -            | rel level | Released |
| surface       | ISO 1302            | appr | Pai-Ming Zheng | 2014/02/19 | product family | HPCE | cat. no.               | 10127905     | rev       | A        |
|               |                     |      |                |            |                |      | Product - Customer Drw | sheet 2 of 4 |           |          |

PDS: Rev :A

STATUS:Released

Printed: Feb 19, 2014



Copyright FCI.  
FCI

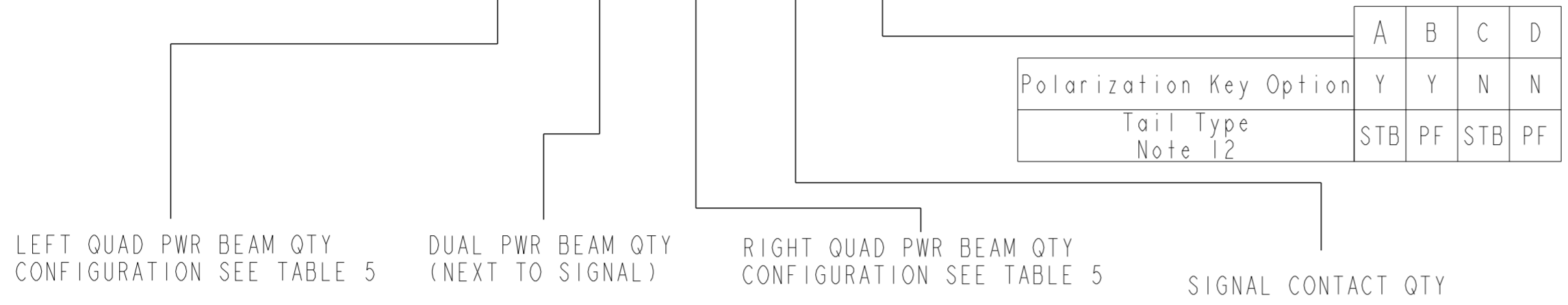
|                                       |                     |         |            |            |             |          |                        |                              |              |                |          |     |   |
|---------------------------------------|---------------------|---------|------------|------------|-------------|----------|------------------------|------------------------------|--------------|----------------|----------|-----|---|
| spec ref                              | -                   | dr      | De-Ming Lu | 2013/1103  | projection  | MM       | size                   | A2                           | scale        | 4:1            |          |     |   |
| tolerance std                         | ISO 406<br>ISO 1101 | eng     | De-Ming Lu | 2014/02/19 |             |          | ecn no                 | -                            | rel level    | Released       |          |     |   |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |                     | chr     | -          | app        |             |          | Pei-Ming Zheng         | 2014/02/19                   |              | product family | HPCE     |     |   |
| surface                               | ISO 1302            | linear  | 0.X        | ±0.5       |             |          | title                  | VERT REC WITH ENHANCED WALLS |              | div no         | 10127905 | rev | A |
|                                       |                     | angular | 0°         | ±2°        | www.fci.com | cat. no. | Product - Customer Drw |                              | sheet 3 of 4 |                |          |     |   |

PDS: Rev :A

STATUS:Released

Printed: Feb 19, 2014

10127905 - MM NN KK PP LF LEAD FREE



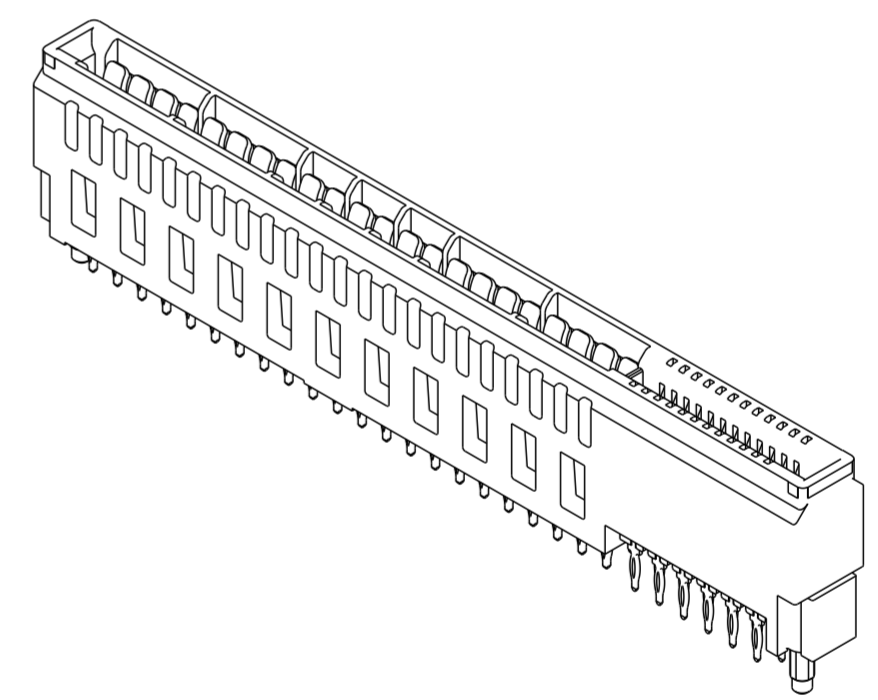
CONFIGURATION:  
 I: 4 BEAM (NN = 00 AND KK = 00);  
 II: 2 BEAM (MM = 00 AND KK = 00);  
 III: 4 BEAM + 2 BEAM (KK = 00);  
 IV: 2 BEAM + 4 BEAM (MM = 00);  
 V: 4 BEAM + 2 BEAM + 4 BEAM.

**TABLE 3. PART NUMBER CODE. HPCE VERT P+S CONFIG (SPECIAL)**

NOTES:

- CONNECTOR MATERIALS:  
 HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK  
 UL 94V-0 COMPLIANT  
 CONTACTS: HIGH PERFORMANCE COPPER ALLOY.
- CONTACT FINISH REF. GS-12-604 SECTION 5.2.
- PRODUCT SPECIFICATION: GS-12-604.
- APPLICATION SPECIFICATION: GS-20-128.
- PRODUCT MARKING (FCI - PART NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN.
- PACKAGING MEETS FCI SPECIFICATION GS-14-937.
- HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
- COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE NO MORE THAN 0.003 LESS THAN OTHER AREAS.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED  
 Ø 2.40 +/- 0.1 FOR PRESS-FIT TAILS  
 Ø 2.18 +/- 0.03 FOR SOLDER TAILS
- PRESS FIT APPLICATION TOOL DRAWING : 10119453.
- STB= Solder to board, 1.57-2.38mm PCB thickness.  
 PF = Press fit, 1.57mm minimum PCB thickness.
- MAXIMUM OVERALL LENGTH IS 100mm.

- DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO 2 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO POLARIZATION KEY.
- DUE TO FCI PART NUMBER LENGTH LIMITED, A LETTER WILL REPLACE MM AND KK, DETAIL SEE TABLE 5.



EXAMPLE: 10127905-BI2B24BLF

| DIM        | TABLE 4: LENGTH FORMULAS  |  |
|------------|---|--|
| DIM A (13) | $(MM+KK)/8 \times 10.16 + (NN/4) \times 5.08 + (PP/2) \times 1.27 + 9.12$ |  |
| DIM B      | DIM A - 5.00  |  |
| DIM C      | DIM A - 0.94  |  |
| DIM D      | DIM A - 4.04  |  |
| DIM E      | DIM A - 5.30  |  |
| DIM F      | $[(MM+NN+KK)/2] \times 2.54 + 3.50$                                       |  |
| DIM G      | CONFIG. I   | 5.72   |
|            | CONFIG. II  | -  |
|            | CONFIG. III   | 5.72   |
|            | CONFIG. IV  | -  |
|            | CONFIG. V   | 5.72   |
| DIM H      | CONFIG. I   | -  |
|            | CONFIG. II  | 3.18   |
|            | CONFIG. III   | $(MM / 8 - 1) \times 10.16 + 13.34$                            |
|            | CONFIG. IV  | 3.18   |
| DIM J      | CONFIG. V   | $(MM / 8 - 1) \times 10.16 + 13.34$                            |
|            | CONFIG. I   | -  |
|            | CONFIG. II  | -  |
| DIM K      | CONFIG. III   | -  |
|            | CONFIG. IV  | $(NN / 4 - 1) \times 5.08 + 10.80$                             |
|            | CONFIG. V   | $(MM / 8 - 1) \times 10.16 + (NN / 4 - 1) \times 5.08 + 20.96$ |
| DIM L      | $(MM+KK)/8 \times 10.16 + (NN/4) \times 5.08 + 0.64$ (WITH KEY)           |  |
|            | - (NO KEY)  |  |
| DIM L      | $(MM+KK)/8 \times 10.16 + (NN/4) \times 5.08 + 2.87$                      |  |

| LETTER | REPRESENT QUAD PWR BEAM QTY |
|--------|-----------------------------|
| A      | 08                          |
| B      | 16                          |
| C      | 24                          |
| D      | 32                          |
| E      | 40                          |
| F      | 48                          |
| G      | 56                          |

|                                       |                     |       |            |             |  |          |          |                 |                        |              |
|---------------------------------------|---------------------|-------|------------|-------------|--|----------|----------|-----------------|------------------------|--------------|
| spec ref                              | -                   | dr    | De-Ming Lu | 2013/1103   | projection   | MM       | size     | A2              | scale                  | 4:1          |
| tolerance std                         | ISO 406<br>ISO 1101 | eng   | De-Ming Lu | 2014/02/19  |  |          | ecn no   | -               | rel level              | Released     |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |                     | chr   | -          | apppr       |  |          |          |                 |                        |              |
| surface                               | linear              | 0.X   | ±0.5       |             | <b>VERT REC WITH ENHANCED WALLS</b><br>P+S CONFIGURATION - UNIVERSAL DRAWING | cat. no. | 10127905 | rev<br><b>A</b> | Product - Customer Drw | sheet 4 of 4 |
|                                       |                     | 0.XX  | ±0.25      |             |  |          |          |                 |                        |              |
|                                       |                     | 0.XXX | ±0.10      |             |  |          |          |                 |                        |              |
|                                       | angular             | 0°    | ±2°        | www.fci.com |  |          |          |                 |                        |              |

Copyright FCI. FCI



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- 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

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.