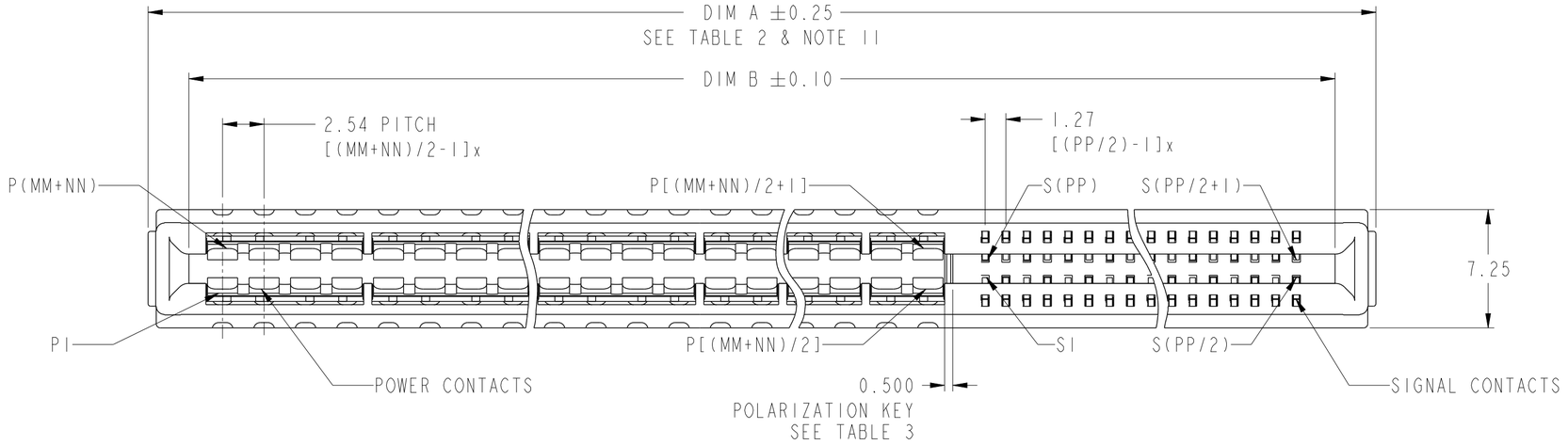
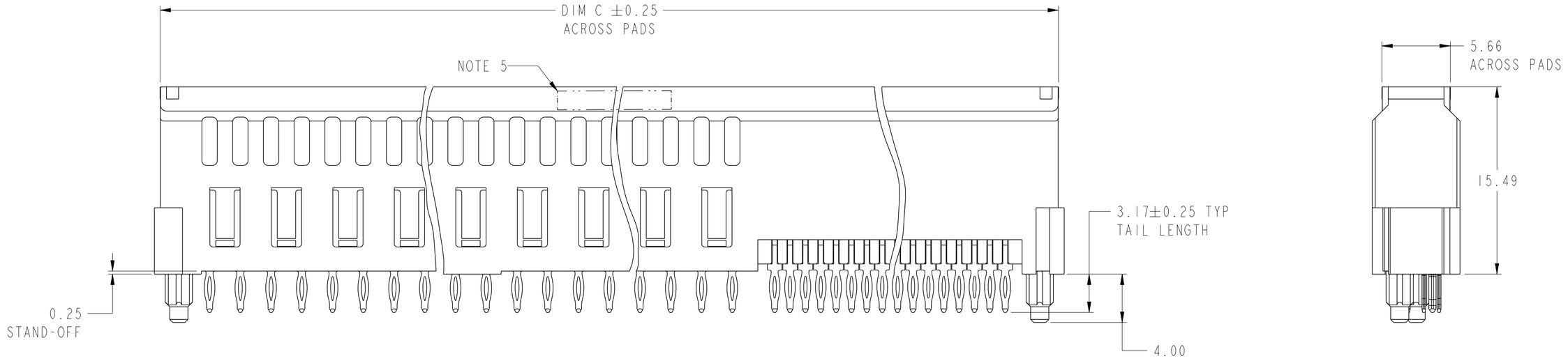


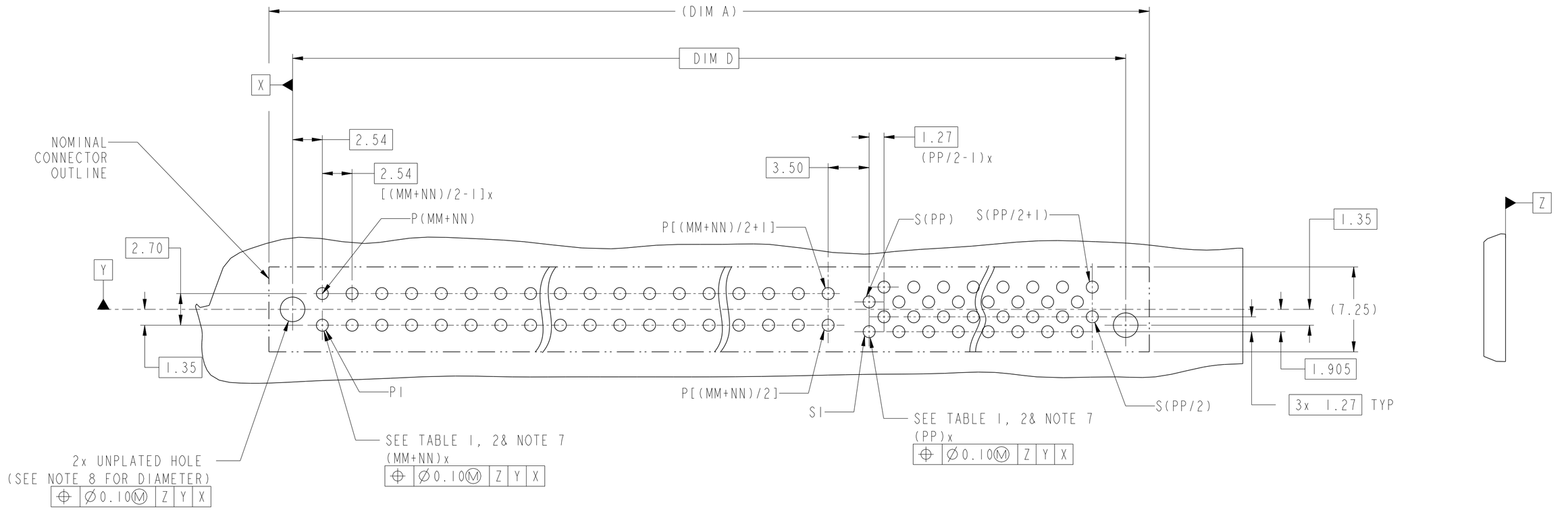

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Hai-Ling Liu | 2016/03/09 | projection | MM |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sunny2 Liu | 2016/06/16 | | |
| ISO 406 ISO 1101 | | | | chr | Terris Liu | 2016/06/16 | | |
| | | | | appr | Pei-Ming Zheng | 2016/06/16 | product family | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| size | A2 | scale | 1:1 | | | | |
| ecn no | - | | | | | | |
| rel level | Released | | | | | | |
| surface | linear | 0.X | ±0.5 | Amphenol FCi | title | HPCE VT-ENHANCED WALLS | dwg no 10139003 rev A |
| ASME Y14.5 | | 0.XX | ±0.25 | | | P+S - UNIVERSAL DRAWING LOW HF | |
| | | 0.XXX | ±0.10 | | | | |
| | angular | 0° | ±2° | | cat. no. | Product - Customer Drw | sheet 1 of 4 |

| CONTACT TYPE | TOP LAYER DESCRIPTION | TABLE 1 (HPCE / SOLDER TAILS) 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 | 1.10-1.16 (1.15 DRILL) | 0.025 - 0.050 | -- | -- | 0.94 - 1.10 |

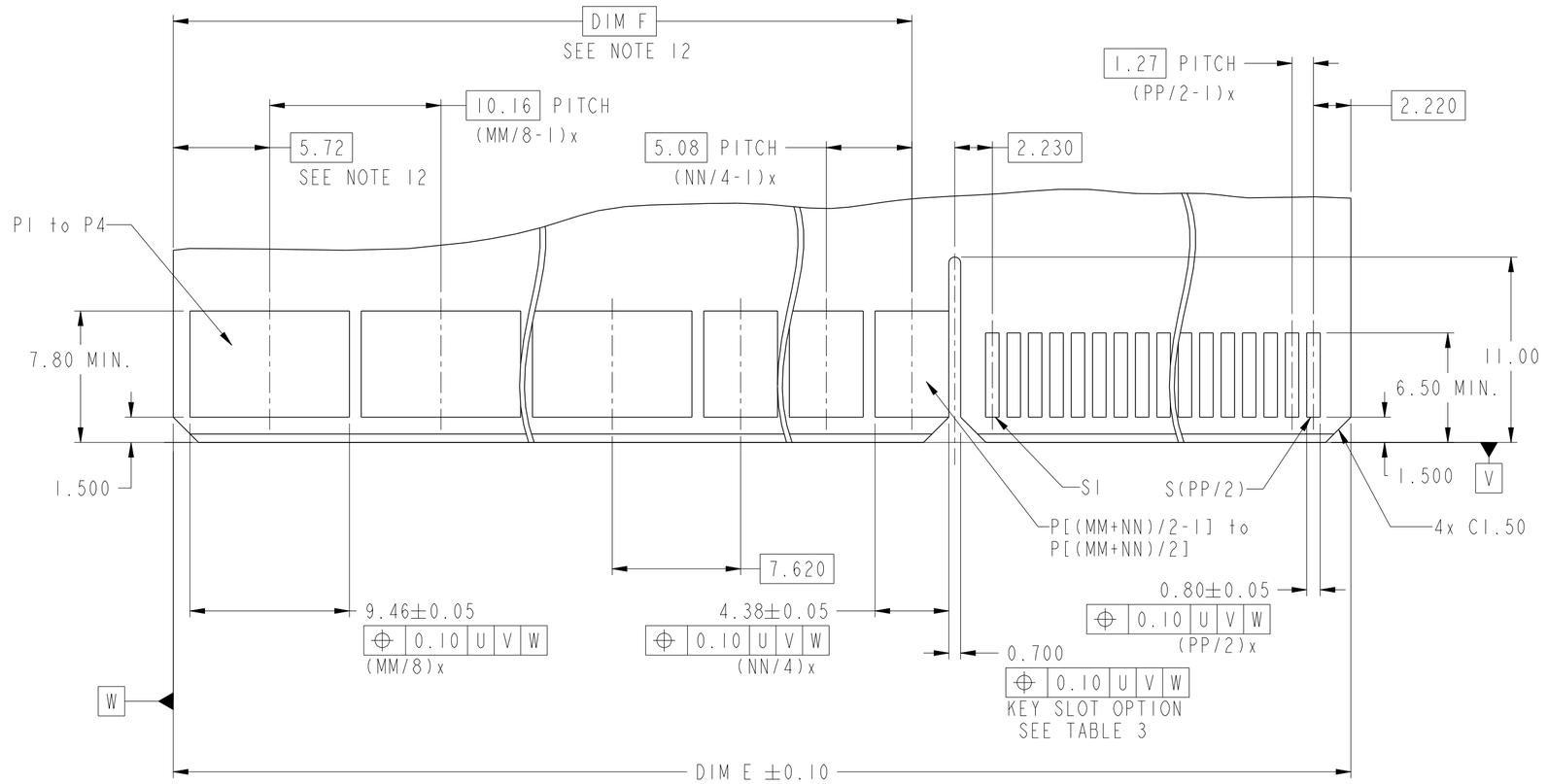
| CONTACT TYPE | TOP LAYER DESCRIPTION | TABLE 2 (HPCE / PRESS-FIT TAILS) PLATED THROUGH-HOLE REQUIREMENTS | | | | |
|---|---|---|---|---|---|---|
| | | DRILLED HOLE DIAMETER | COPPER THICKNESS | TIN-LEAD THICKNESS | TIN THICKNESS | FINISHED HOLE DIAMETER |
| POWER & SIGNAL | TIN-LEAD | 0.81-0.86 (0.85 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 | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | -- | -- | 0.70 - 0.80 |

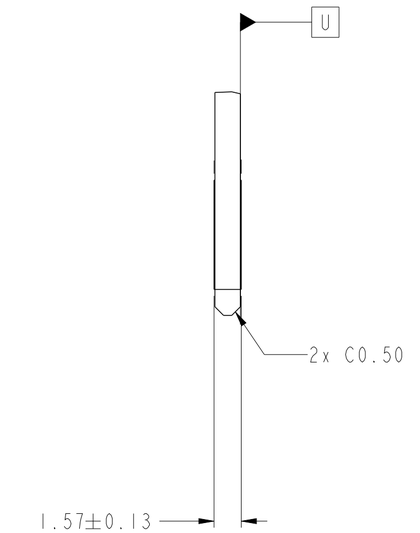



**RECOMMENDED PCB LAYOUT**
**DIMENSION TOLERANCE IS ± 0.05 mm**

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Hai-Ling Liu | 2016/03/09 | projection: MM |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sunny2 Liu | 2016/06/16 | size A2 / scale 1:1 |
| | | | | chr | Terris Liu | 2016/06/16 | ecn no - |
| | | | | appr | Pei-Ming Zheng | 2016/06/16 | product family / rel level Released |
| surface ASME Y14.5 | linear | 0.X | ±0.5 | Amphenol FCI | title: HPCE VT-ENHANCED WALLS P+S - UNIVERSAL DRAWING LOW HF | | dwg no 10139003 / rev A |
| | | 0.XX | ±0.25 | | | | |
| | | 0.XXX | ±0.10 | | | | |
| | angular | 0° | ±2° | | cat. no. | Product - Customer Drw | sheet 2 of 4 |



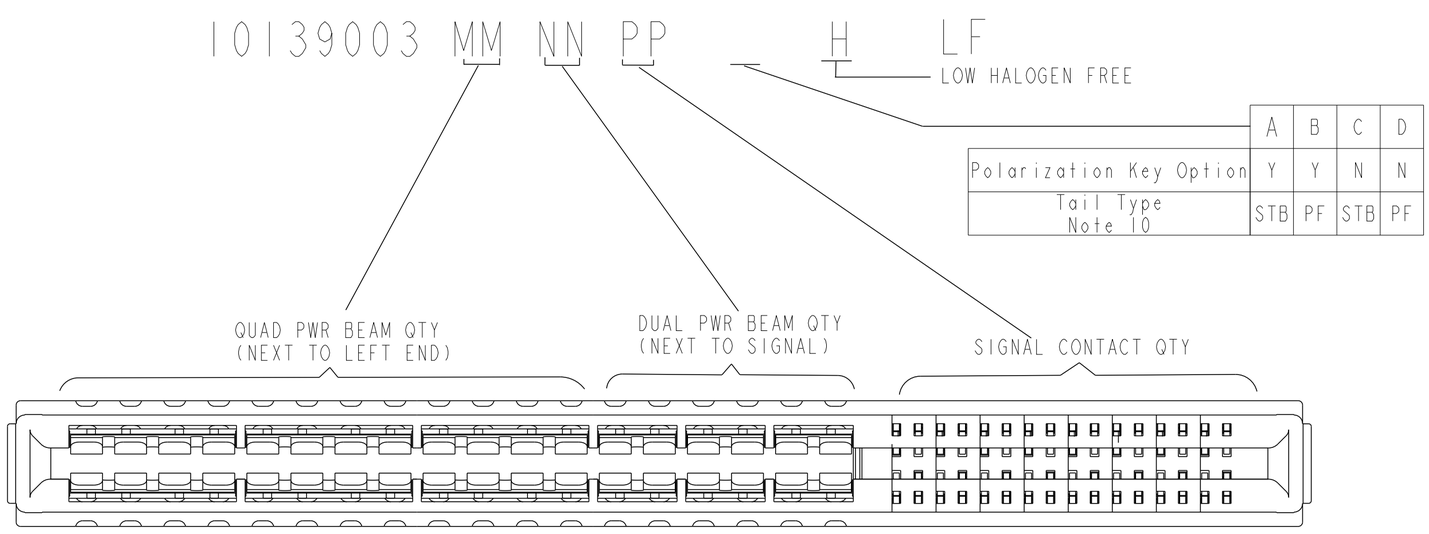

**RECOMMENDED EDGE CARD LAYOUT**
**DIMENSION TOLERANCE IS ± 0.05 mm**

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | | dr | Hai-Ling Liu | 2016/03/09 | projection | MM |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Sunny2 Liu | 2016/06/16 | | |
| | | | chr | Terris Liu | 2016/06/16 | | |
| | | | appr | Pei-Ming Zheng | 2016/06/16 | product family | |
| surface ASME Y14.5 | linear | 0.X ±0.5 | Amphenol FCi | title | HPCE VT-ENHANCED WALLS | dwg no | 10139003 |
| | | 0.XX ±0.25 | | | P+S - UNIVERSAL DRAWING LOW HF | | |
| | | 0.XXX ±0.10 | | | | | |
| | angular | 0° ±2° | | cat. no. | Product - Customer Drw | | |

| size | scale | rev |
|---|---|---|
| A2 | 1:1 | A |

ecn no -
rel level **Released**
sheet 3 of 4




| | A | B | C | D |
|---|---|---|---|---|
| Polarization Key Option | Y | Y | N | N |
| Tail Type Note 10 | STB | PF | STB | PF |

Example: The configuration above is 10139003241232BHLF
VERT Press fit 36P32S with polarization key. 24P is Quad beam contact, 12P is dual beam contact.

| DIM | TABLE 2. LENGTH FORMULAS. |
|---|---|
| DIM A | (MM/8)X10.16+ (NN/4)X5.08 + (PP/2)X1.27 + 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/8-1)x10.16 + (NN/4-1)x5.08 + 13.34 (WITH 4 BEAM CONTACT) |
| | 3.18 (WITHOUT 4 BEAM CONTACT) |

# TABLE 3. PART NUMBER CODE. HPCE VERT P+S CONFIG

NOTES:

1. CONNECTOR MATERIALS:

   HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
   UL 94V-0 COMPLIANT
   CONTACTS: HIGH PERFORMANCE COPPER ALLOY.

2. CONTACT FINISH REF. GS-12-604 SECTION 5.2.

3. PRODUCT SPECIFICATION: GS-12-604.

4. APPLICATION SPECIFICATION: GS-20-128.

5. PRODUCT MARKING ON HOUSING IN AREA SHOWN MEETS AFCI SPECIFICATION GS-24-007

6. PACKAGING MEETS FCI SPECIFICATION GS-14-937.

7. ALL HOLE SIZES ARE FINISHED HOLE SIZES.

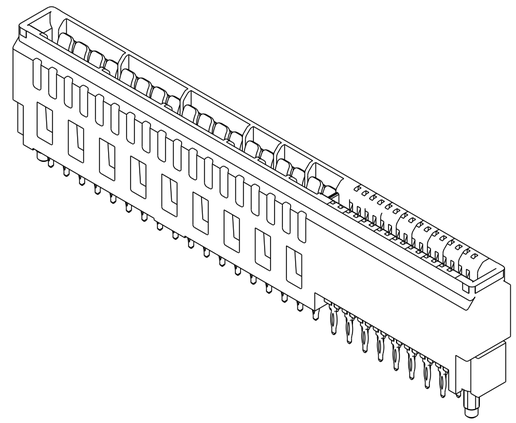
8. MOUNTING HOLES ARE UNPLATED
   Ø 2.40 +/- 0.1 FOR PRESS-FIT TAILS
   Ø 2.18 +/- 0.03 FOR SOLDER TAILS

9. PRESS FIT APPLICATION TOOL DRAWING : 10119453.

10. STB=SOLDER TO BOARD,2.36MM PCB THICKNESS.
    PF=PRESS FIT,1.57MM MINIMUN PCB THICKNESS.

11. MAXIUM OVERALL LENGTH IS 100mm.

12. DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT OR 2 BEAM CONTACT.



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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref - | | | dr | Hai-Ling Liu | 2016/03/09 | projection | MM |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Sunny2 Liu | 2016/06/16 | | |
| | | | chr | Terris Liu | 2016/06/16 | | |
| | | | appr | Pei-Ming Zheng | 2016/06/16 | product family | |
| surface ASME Y14.5 | linear | 0.X ±0.5 | Amphenol FCi | title | HPCE VT-ENHANCED WALLS P+S - UNIVERSAL DRAWING LOW HF | dwg no 10139003 | rev A |
| | | 0.XX ±0.25 | | | | | |
| | | 0.XXX ±0.10 | | | | | |
| | angular | 0° ±2° | | cat. no. | Product - Customer Drw | | sheet 4 of 4 |

size A2 | scale 1:1 | ecn no - | rel level Released