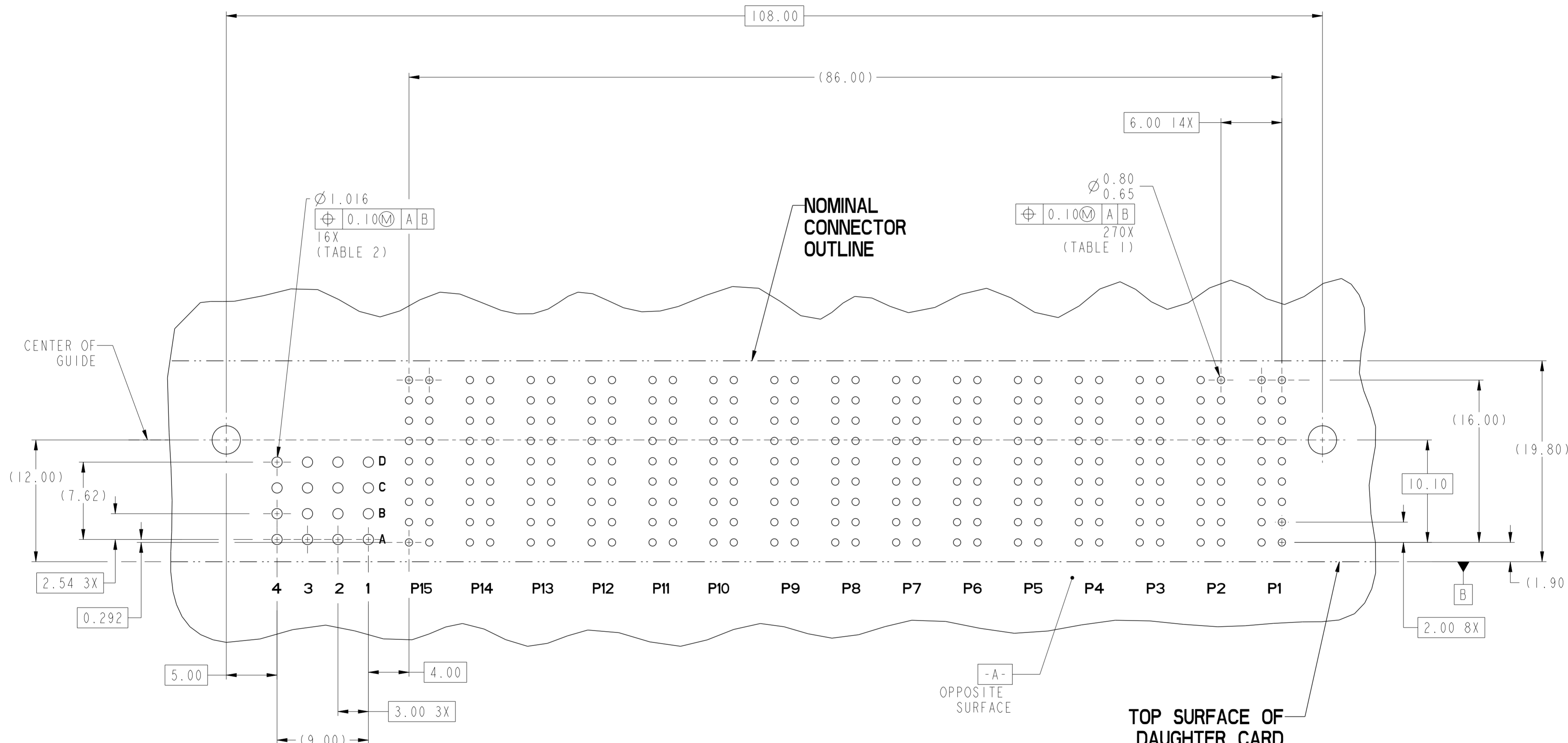


| | | | | | | | | | | |
|---------------|------------|-------------|----------------|------------|----------------|------------------------|--------------|----------|-----------|-------------------------|
| spec ref | * | dr | DuWa | 2010/04/28 | projection | MM | size | A2 | scale | 3:1 |
| tolerance std | ASME Y14.5 | eng | Helen Zhang | 2012/07/23 | chr | - | ecn no | - | rel level | Released |
| surface | ✓ | appr | Pei-Ming Zheng | 2012/07/23 | product family | - | rel level | Released | title | VERT RECP ASSY 15DC-16S |
| ASME Y14.5 | linear | 0.X | ±.5 | 0.XX | ±.25 | 0.XXX | ±.10 | angular | 0° | ±2° |
| | | www.fci.com | | cat. no. | - | Product - Customer Drw | sheet 1 of 4 | rev | A | |

PDS: Rev :A

STATUS:Released

Printed: Jul 23, 2012



**RECOMMENDED PCB LAYOUT
COMPONENT SIDE**

NOTE 6

Copyright FCI.

| | | | | | | | | | | | |
|---------------------------------------|------------|---------|-------------|------------|-------------|----|----------------|-------------------------|----------------|------------------------|--------------|
| spec ref | * | dr | DuWa | 2010/04/28 | projection | MM | size | A2 | scale | 3:1 | |
| tolerance std | ASME Y14.5 | eng | Helen Zhang | 2012/07/23 | | | ecn no | - | rel level | Released | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | - | app | | | Pei-Ming Zheng | 2012/07/23 | product family | - | rel level |
| surface | ✓ | linear | 0.X | ±.5 | | | title | VERT RECP ASSY 15DC-16S | | rev | A |
| | | | 0.XX | ±.25 | www.fci.com | | cat. no. | - | | Product - Customer Drw | sheet 2 of 4 |
| | | angular | 0° | ±2° | | | cat. no. | - | | Product - Customer Drw | sheet 2 of 4 |

A

A

B

B

C

C

D

D

E

E

F

F

TABLE 1 (HCI POWER)
PLATED THROUGH-HOLE REQUIREMENTS

| TOP LAYER DESCRIPTION | DRILLED HOLE DIAMETER | COPPER THICKNESS | TIN-LEAD THICKNESS | NICKEL THICKNESS | GOLD THICKNESS | TIN THICKNESS | SILVER THICKNESS | FINISHED HOLE DIAMETER |
|-----------------------|------------------------|------------------|--------------------|------------------|--------------------|---------------|------------------|------------------------|
| 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 |
| IMMERSION SILVER | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | -- | -- | -- | -- | 0.15 - 0.65um | 0.70 - 0.80 |
| COPPER (SEE NOTE 9) | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | -- | -- | -- | -- | -- | 0.70 - 0.80 |
| GOLD | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | -- | 0.003 - 0.007 | FLASH UP TO 0.0002 | -- | -- | 0.69 - 0.80 |

TABLE 2 (HPC SIGNALS)
PLATED THROUGH-HOLE REQUIREMENTS

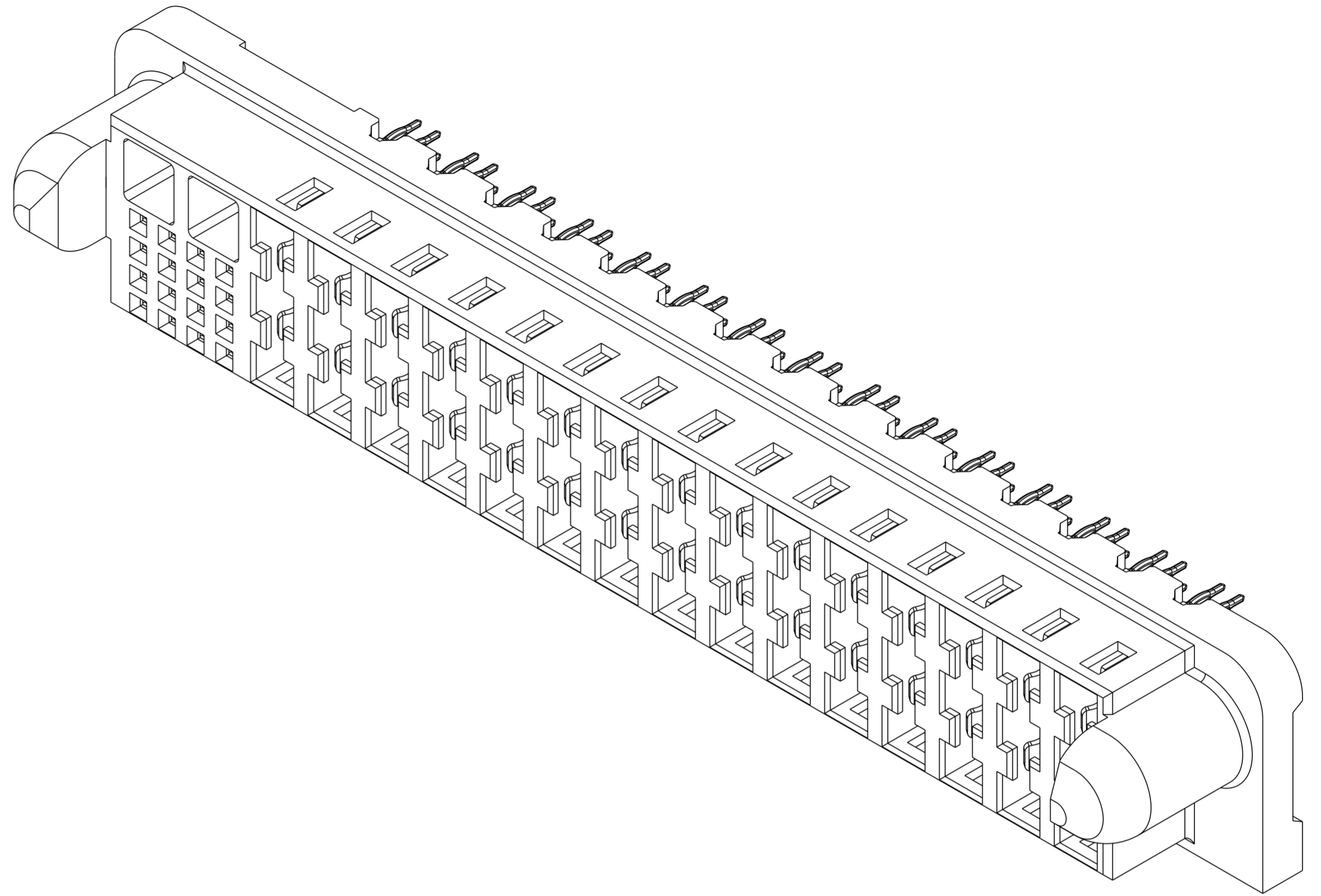
| TOP LAYER DESCRIPTION | DRILLED HOLE DIAMETER | COPPER THICKNESS | TIN-LEAD THICKNESS | FINISHED HOLE DIAMETER |
|-----------------------|--|------------------|--------------------|--|
| TIN-LEAD | 1.125-1.175 ($\varnothing .0453 \pm .0010$) | 0.025-0.050 | 0.005-0.015 | 0.94 - 1.10 ($\varnothing .040 \pm .003$) |



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| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|----------|-------------|------------------------|--------------|----|--------|-----------|-----------------|-----|-------|------|---------|----|-----|------|----------------|------------|--|---|--------------------|----------|
| spec ref | * | dr | DuWa | 2010/04/28 | projection | MM | size | A2 | scale | 3:1 | | | | | | | | | | | | |
| tolerance std | ASME Y14.5 | eng | Helen Zhang | 2012/07/23 | | | ecn no | - | Released | | | | | | | | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | - | product family | | | - | rel level | - | | | | | | | | | | | | | |
| surface | <table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.5</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.25</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.10</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table> | linear | 0.X | ±.5 | | | | 0.XX | ±.25 | | 0.XXX | ±.10 | angular | 0° | ±2° | appr | Pei-Ming Zheng | 2012/07/23 | | VERT RECP ASSY 15DC-16S HCI POWER CONNECTOR | dwg no 10107012 | rev A |
| linear | 0.X | ±.5 | | | | | | | | | | | | | | | | | | | | |
| | 0.XX | ±.25 | | | | | | | | | | | | | | | | | | | | |
| | 0.XXX | ±.10 | | | | | | | | | | | | | | | | | | | | |
| angular | 0° | ±2° | | | | | | | | | | | | | | | | | | | | |
| ASME Y14.5 | www.fci.com | cat. no. | - | Product - Customer Drw | sheet 3 of 4 | | | | | | | | | | | | | | | | | |

| PART NUMBER | M2.5 SCREW NOTE 11 | TAIL PLATING | TAIL TYPE |
|----------------|-----------------------|-----------------|--------------|
| 10107012-001 | OPTIONAL | SnPb | PRESS-FIT |
| 10107012-001LF | OPTIONAL | Sn | PRESS-FIT |



NOTES:

1. CONNECTOR MATERIALS:
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK
UL 94V-0 COMPLIANT
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
2. CONTACT FINISH (ref GS-12-380 SECTION 5.2)
3. PRODUCT SPECIFICATION: GS-12-380.
4. APPLICATION SPECIFICATION: GS-20-070.
5. PRODUCT MARKING (PRODUCT NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN.
6. MINIMUM NOMINAL PCB THICKNESS: 1.6mm
7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073.
8. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C
PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,
OR VAPOR PHASE REFLOW OVEN.
9. COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE
NO MORE THAN 0.003 LESS THAN OTHER AREAS.
10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.
11. RECOMMENDED RETENTION TO PCB:
Ø0.110[2.79] THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX
HEAD Ø0.177[4.50].
RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.
RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 lbf-in (2300-5760 gf-cm).

| | | | | | | | | | | |
|---------------------------------------|------------|------|----------------|----------------|------------|----|-------------------------|--------------|-----------|-----|
| spec ref | * | dr | DuWa | 2010/04/28 | projection | MM | size | A2 | scale | 3:1 |
| tolerance std | ASME Y14.5 | eng | Helen Zhang | 2012/07/23 | | | ecn no | - | rel level | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | - | Product family | | | - | Released | | |
| surface | linear | appr | Pei-Ming Zheng | 2012/07/23 | | | VERT RECP ASSY 15DC-16S | 10107012 | rev | A |
| ASME Y14.5 | angular | 0° | ±2° | www.fci.com | cat. no. | - | Product - Customer Drw | sheet 4 of 4 | | |