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|---------------------------------------|---|-------------|---------------|------------|------------------------|--------------|----------|----------------|-------|-----|-------|-------|---------|----|-----|------|----------------|------------|----------------|-----|
| spec ref | - | dr | NotFound DuWa | 2010/04/28 | projection | MM | size | A2 | scale | 3:1 | | | | | | | | | | |
| tolerance std | ASME Y14.5 | eng | De-Ming Lu | 2014/12/27 | | | ecn no | ELX-DG-19849-1 | | | | | | | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | - | rel level | | | Released | | | | | | | | | | | | | |
| surface | <table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±0.5</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±0.25</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±0.10</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table> | linear | 0.X | ±0.5 | | | | 0.XX | ±0.25 | | 0.XXX | ±0.10 | angular | 0° | ±2° | appr | Pai-Ming Zheng | 2014/12/29 | product family | HCI |
| linear | 0.X | ±0.5 | | | | | | | | | | | | | | | | | | |
| | 0.XX | ±0.25 | | | | | | | | | | | | | | | | | | |
| | 0.XXX | ±0.10 | | | | | | | | | | | | | | | | | | |
| angular | 0° | ±2° | | | | | | | | | | | | | | | | | | |
| ASME Y14.5 | | www.fci.com | cat. no. | - | Product - Customer Drw | sheet 1 of 4 | | | | | | | | | | | | | | |

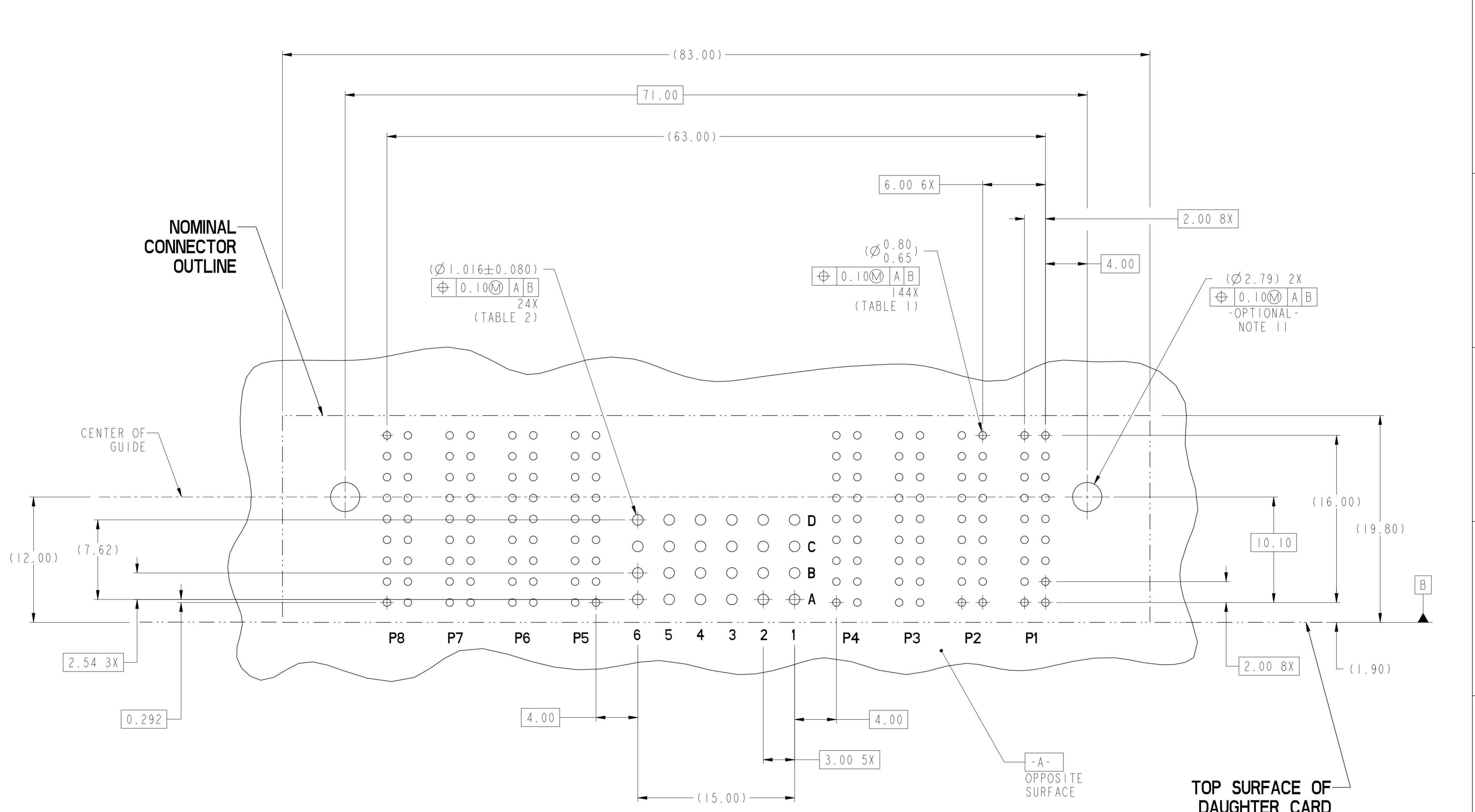
PDS: Rev :B

STATUS:Released

Printed: Dec 30, 2014

1 2 3 4 5 6 7 8

A
B
C
D
E
F



**RECOMMENDED PCB LAYOUT
COMPONENT SIDE**

NOTE 6

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| | | | | | | | | |
|-------------|----------------|----------------------------------|----------------|------------------------|-----------------|----------------|--------------|-----|
| dr | NotFound DuWa | 2010/04/28 | projection | MM | size | A2 | scale | 4:1 |
| eng | De-Ming Lu | 2014/12/27 | | | ecn no | ELX-DG-19849-1 | | |
| chr | - | - | | | rel level | Released | | |
| appr | Pei-Ming Zheng | 2014/12/29 | product family | - | rel level | Released | | |
| | | VERT RECPT ASSY 4P+24S+4P | | dwg no 10077215 | rev B | | sheet 2 of 4 | |
| www.fci.com | | cat. no. | | Product - Customer Drw | | sheet 2 of 4 | | |

PDS: Rev :B

STATUS:Released

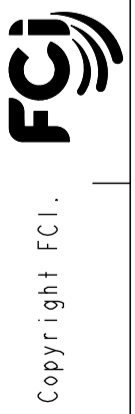
Printed: Dec 30, 2014

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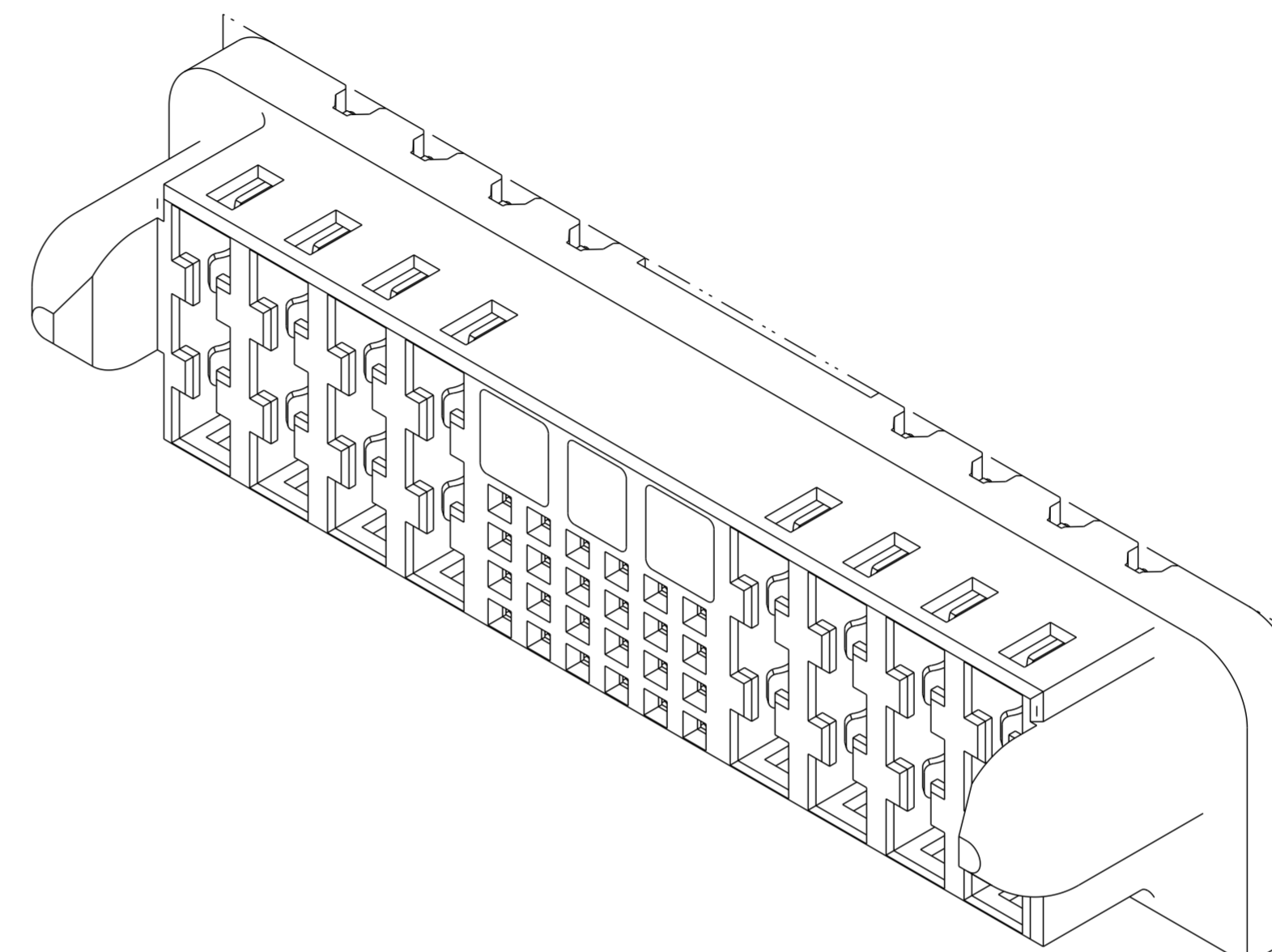
| TOP LAYER DESCRIPTION | TABLE 1 (HCI POWER) PLATED THROUGH-HOLE REQUIREMENTS | | | | | | | |
|-----------------------|---|------------------|--------------------|------------------|--------------------|---------------|------------------|------------------------|
| | DRILLED HOLE DIAMETER | COPPER THICKNESS | 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 |

| TOP LAYER DESCRIPTION | TABLE 2 (HPC SIGNALS) PLATED THROUGH-HOLE REQUIREMENTS | | | | | | | |
|-----------------------|---|------------------|--------------------|------------------|----------------|---------------|------------------|--|
| | DRILLED HOLE DIAMETER | COPPER THICKNESS | TIN-LEAD THICKNESS | NICKEL THICKNESS | GOLD THICKNESS | TIN THICKNESS | SILVER 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 ($\varnothing .040 \pm .003$) |
| IMMERSION TIN | | | -- | -- | -- | -- | -- | |
| IMMERSION SILVER | | | -- | -- | -- | -- | -- | |
| COPPER (SEE NOTE 9) | | | -- | -- | -- | -- | -- | |
| GOLD | | | -- | -- | -- | -- | -- | |



| | | | | | | | | |
|-------------|----------------|------------------------|----------------|--------------|-----------|----------------|-------|-----|
| dr | NotFound DuWa | 2010/04/28 | projection | MM | size | A2 | scale | 1:1 |
| eng | De-Ming Lu | 2014/12/27 | | ←→ | ecn no | ELX-DG-19849-1 | | |
| chr | - | - | | | rel level | Released | | |
| appr | Pei-Ming Zheng | 2014/12/29 | product family | - | cat. no. | 10077215 | rev | B |
| www.fci.com | | Product - Customer Drw | | sheet 3 of 4 | | | | |

| PART NUMBER | M2.5 SCREW NOTE 11 | TAIL PLATING | TAIL TYPE |
|----------------|-----------------------|-----------------|--------------|
| 10077215-001 | OPTIONAL | SnPb | PRESS-FIT |
| 10077215-001LF | 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.

 $\varnothing 0.110[2.79]$ THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX
HEAD $\varnothing 0.177[4.50]$.
RECOMMENDED SCREW LENGTH $0.276[7.00] +$ PCB THICKNESS.
RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 lbf-in (2300-5760 gf-cm).

| | | | | | | | | |
|-------------|----------------|------------------------|----------------|--------------|-----------|----------------|-------|-----|
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| eng | De-Ming Lu | 2014/12/27 | | | ecn no | ELX-DG-19849-1 | | |
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| appr | Pei-Ming Zheng | 2014/12/29 | product family | HCI | cat. no. | 10077215 | rev | B |
| www.fci.com | | Product - Customer Drw | | sheet 4 of 4 | | | | |

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