

Excellent Integrated System Limited

Stocking Distributor

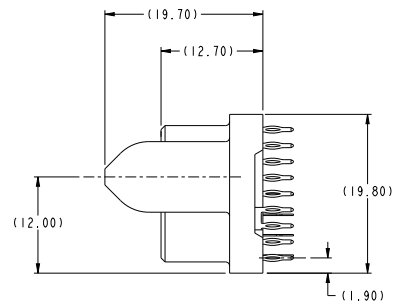
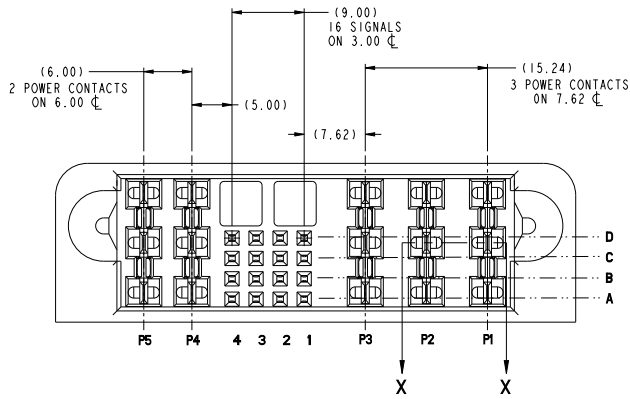
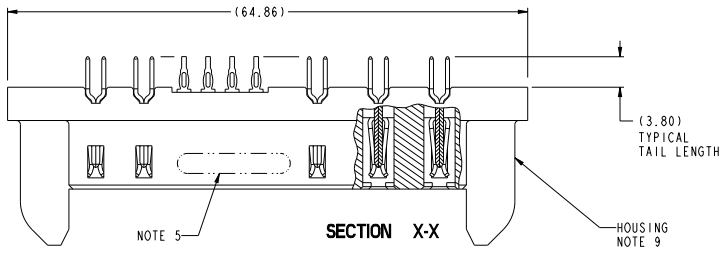
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[FCI](#)

[10091481-001LF](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



| | | | | | | | | | | |
|---------------------------------------|------------|------|---------------|-------------|----------------------------|---------------|-------------------------|--------------|-----------|----------|
| spec ref | - | dr | Indrani Datta | approved | projection | MM | size | A2 | scale | 3:1 |
| tolerance std | ASME Y14.5 | eng | Indrani Datta | approved | chd | Indrani Datta | acc no | | rel level | Released |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | appr | Indrani Datta | approved | product family | HCI | rel level | Released | | |
| surface | linear | 0.1 | ±0.5 | | VERT RECP ASSY 3AC-16S-2DC | | 10091481 | rev | B | |
| | | 0.25 | ±0.25 | | HCI POWER CONNECTOR | | | | | |
| | | 0.5 | ±0.10 | | | | | | | |
| ASME Y14.5 | angular | 0° | ±2° | www.fci.com | cat. no. | | Product - Customer Draw | sheet 1 of 4 | | |

PDS: Rev: B

STATUS: Released

Printed: Dec 29, 2014

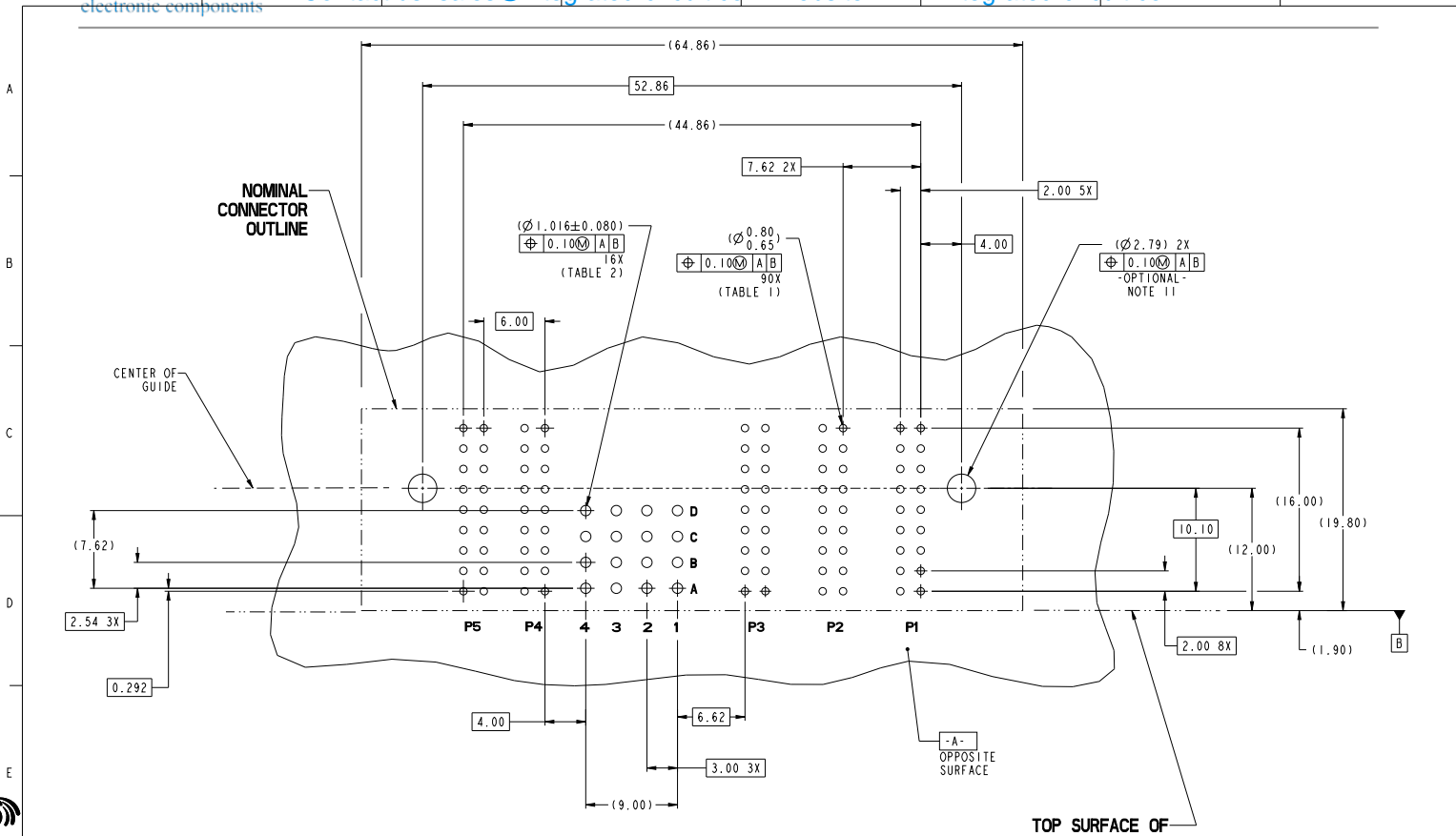
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3

4

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**RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTE 6**

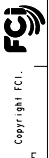
**TOP SURFACE OF
DAUGHTER CARD**

| | | | | | |
|---------------------------------|-----------------------------------|-------------------------------------|---------------------|--------------|------------|
| dr: HuiFang.Du | designed: Jianhua | projection: | MM | size: A2 | scale: 3:1 |
| eng: HuiFang | checked: Jianhua | product family: HCI | rel level: Released | | |
| opr: HuiFang.Du | approved: Jianhua | product: VERT RECP ASSY 3AC-16S-2DC | part no: 10091481 | rev: B | |
| www.fci.com | | Product - Customer Draw | | sheet 2 of 4 | |

PDS: Rev: B

STATUS: Released

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

A
B
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A
B
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D
E
F

| 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 | | | -- | -- | -- | -- | -- | |

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|---|----------|---|-----|-------------------------|----------|--------------|----------|
| dr: Yi-Hsiang Shiao | designed | projection | MM | size | A2 | scale | 3:1 |
| eng: Yi-Hsiang Shiao | checked |  | | acc no | | rel level | Released |
| appr: Yi-Hsiang Shiao | approved | product family | HCI | cat. no. | 10091481 | rev | B |
|  | | VERT RECP ASSY 3AC-16S-2DC HCI POWER CONNECTOR | | Product - Customer Draw | | sheet 3 of 4 | |

PDS: Rev :B

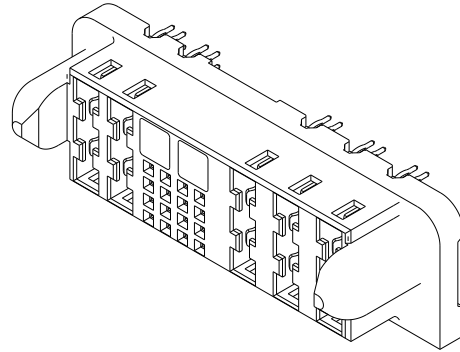
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| PART NUMBER | M2.5 SCREW NOTE 11 | TAIL PLATING | TAIL TYPE |
|----------------|--------------------|--------------|-----------|
| 10091481-001 | OPTIONAL | SnPb | PRESS-FIT |
| 10091481-001LF | OPTIONAL | Sn | PRESS-FIT |

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).



| | | | | | | | |
|--|----------------------------|------------|----|----------------|-----|-----------|----------|
| dr: HuiFang.Du | designed | projection | MM | size | A2 | scale | 3:1 |
| eng: HuiFang.Du | checked | | | acc no | | | |
| chr: | | | | product family | HCl | rel level | Released |
| appr: HuiFang.Du | approved | | | | | | |
| | VERT RECP ASSY 3AC-16S-2DC | | | 10091481 | | | |
| www.fci.com | HCl POWER CONNECTOR | | | | | | |

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