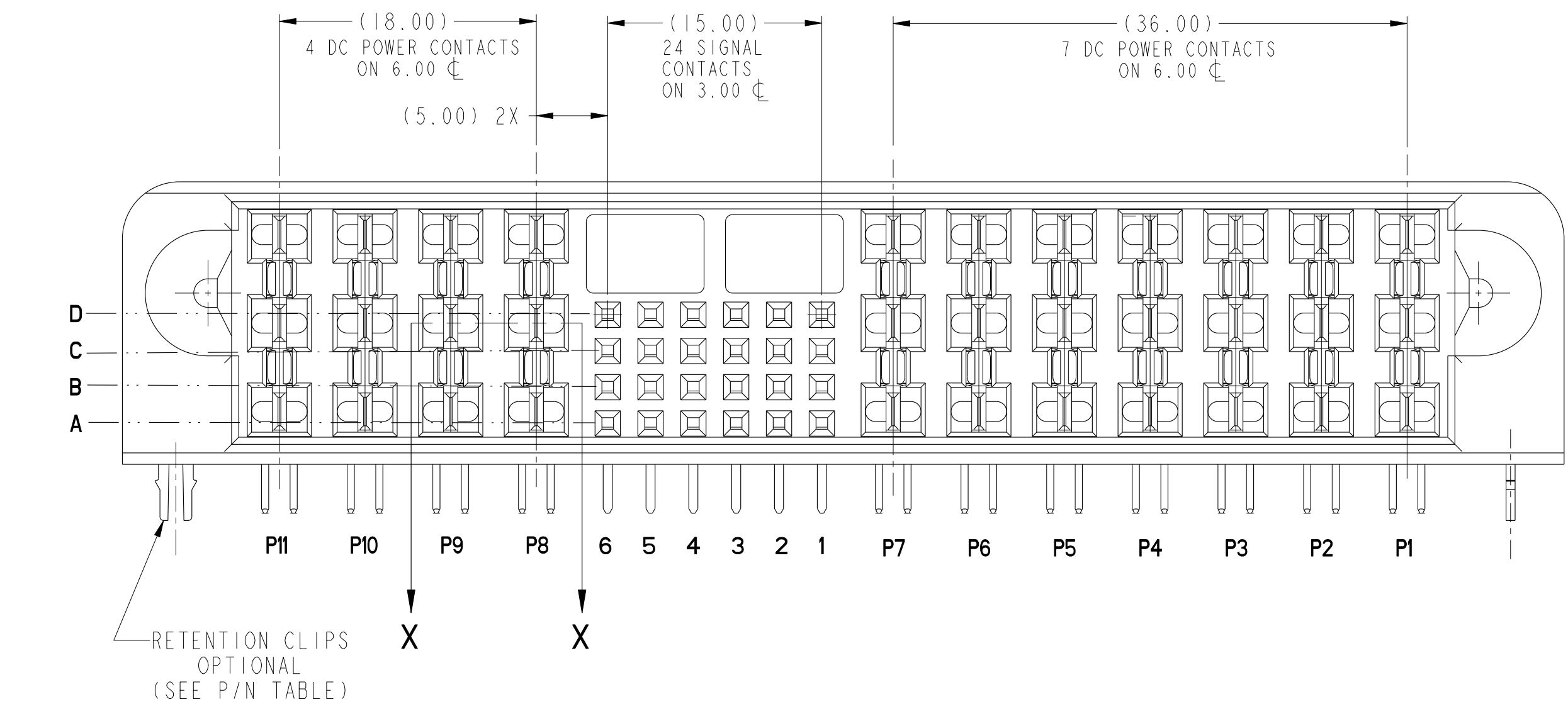
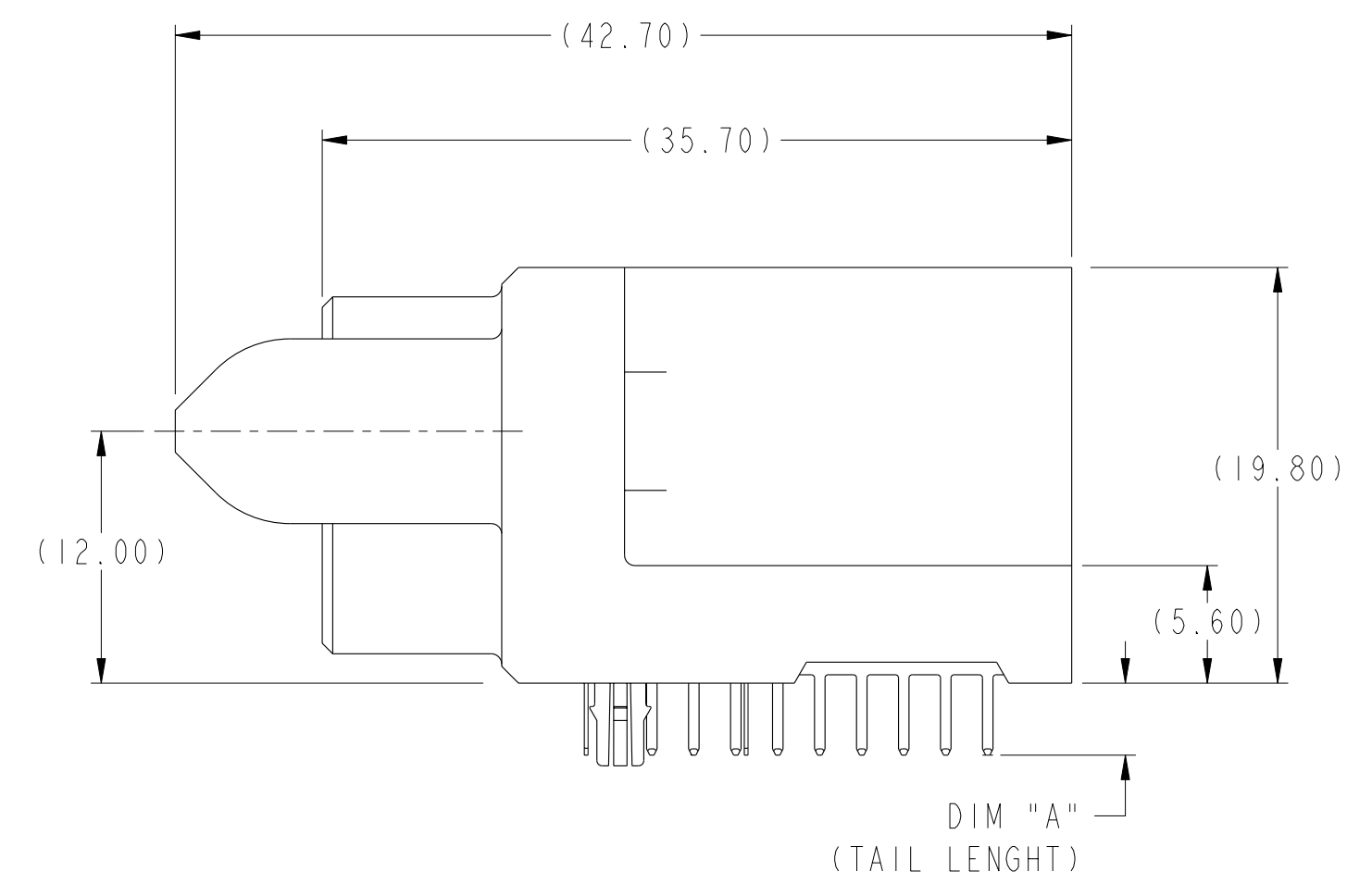


SECTION X-X



RETENTION CLIPS  
OPTIONAL  
(SEE P/N TABLE)



|                    |         |                                       |                             |                    |              |
|--------------------|---------|---------------------------------------|-----------------------------|--------------------|--------------|
| www.fciconnect.com |         | surface<br>ASME Y14.5                 | tolerance std<br>ASME Y14.5 | projection         | MM           |
|                    |         | TOLERANCES UNLESS OTHERWISE SPECIFIED |                             |                    |              |
| Dr                 | T.HOUTZ | 2007-09-27                            | ANGULAR                     | 0.X                | ±.3          |
| Eng                | H.NGO   | 2007-09-27                            | LINEAR                      | 0.XX               | ±.10         |
| Chr                | H.NGO   | 2007-09-27                            | 0° ±2°                      | 0.XXX              | ±.050        |
| Appr               | H.NGO   | 2007-09-27                            | Product family              | -                  | Spec ref     |
| FCJ                |         | TITLE<br>R/A RECPT ASSY 7DC-24S-4DC   |                             | dlg no<br>10082724 | Rev.<br>A    |
|                    |         | catalog no                            |                             | CUSTOMER           | sheet 1 of 4 |

| rev | ecn no   | dr | date       |
|-----|----------|----|------------|
| A   | V08-0243 | TH | 2008-06-03 |
| -   | -        | -  | -          |
| -   | -        | -  | -          |
| -   | -        | -  | -          |
| -   | -        | -  | -          |
| -   | -        | -  | -          |

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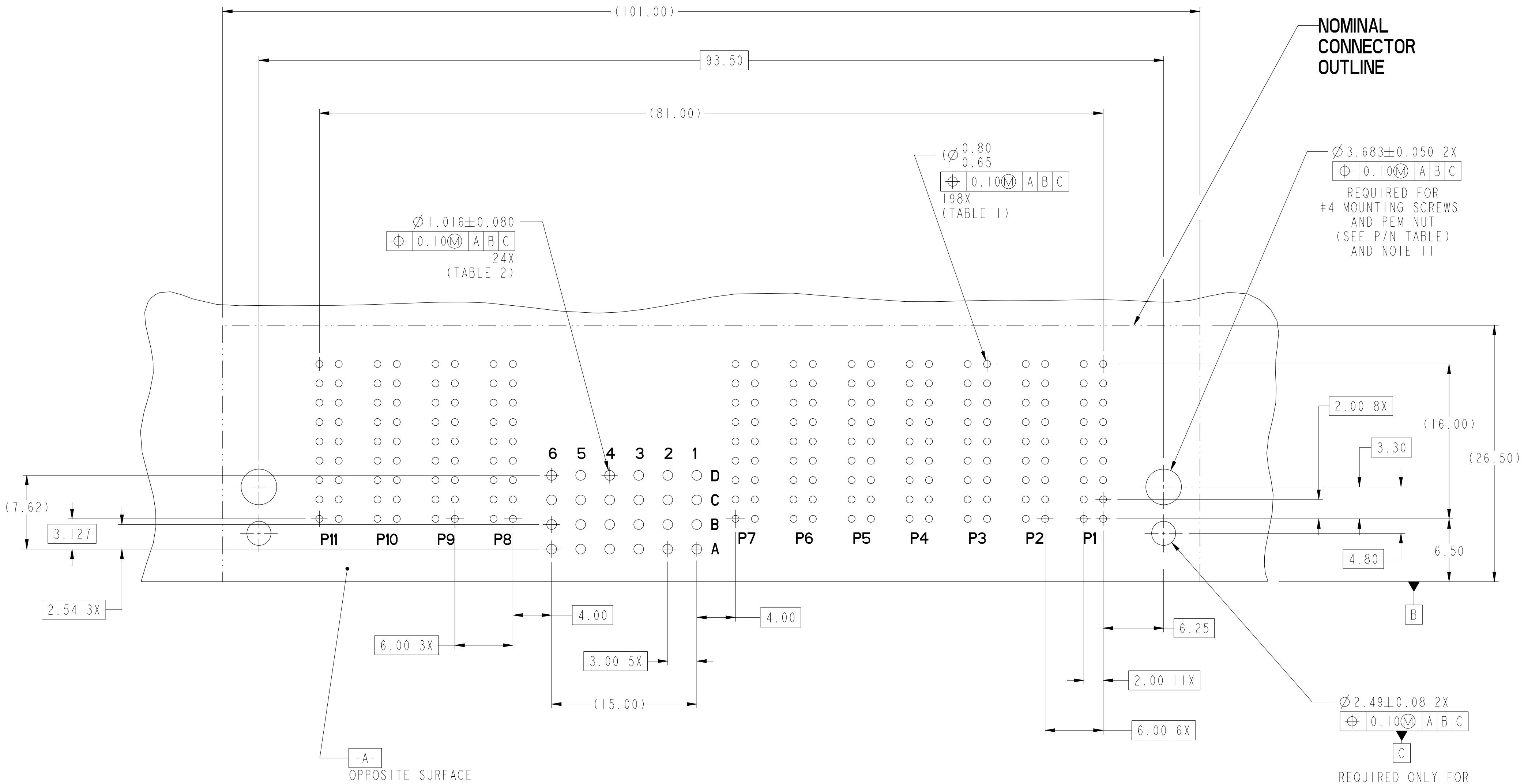
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**RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
NOTE 6**

|            |                                     |                    |              |
|------------|-------------------------------------|--------------------|--------------|
|            | TITLE<br>R/A RECPT ASSY 7DC-24S-4DC | dwg no<br>10082724 | Rev.<br>A    |
|            | HCI POWER CONNECTOR                 | CUSTOMER           | sheet 2 of 4 |
| catalog no | STATUS: Released                    |                    |              |

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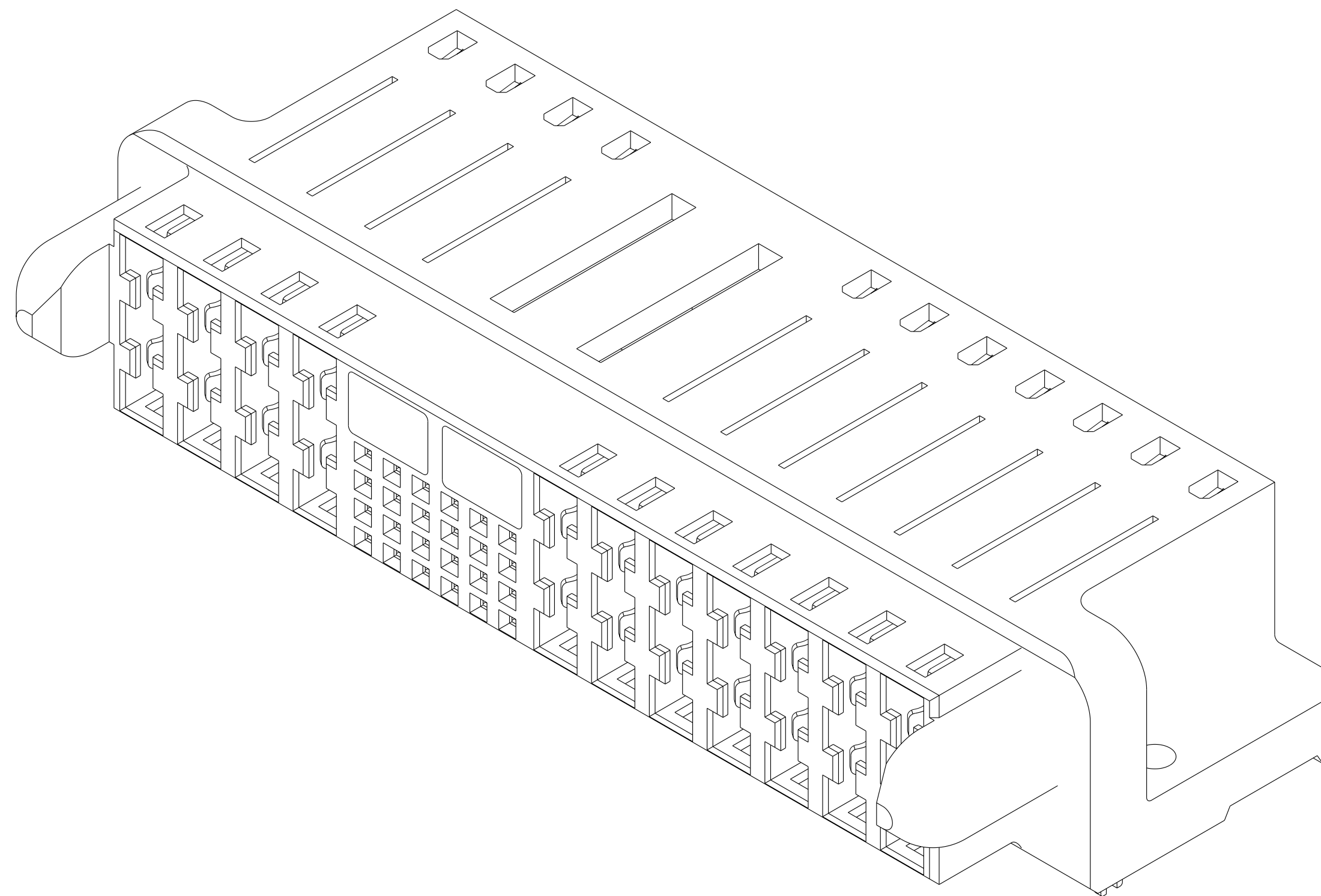
| TOP LAYER DESCRIPTION | TABLE 1 (HCI POWER)<br>PLATED THROUGH-HOLE REQUIREMENTS |                  |                    |                  |                    |               |                  |                        |
|-----------------------|---------------------------------------------------------|------------------|--------------------|------------------|--------------------|---------------|------------------|------------------------|
|                       | 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)<br>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<br>( $\varnothing .0453 \pm .0010$ )          | 0.025-0.050      | 0.005 - 0.015      | --               | --             | --            | --               | 0.94 - 1.10<br>( $\varnothing .040 \pm .003$ ) |
| IMMERSION TIN         |                                                           |                  | --                 | --               | --             | --            | --               |                                                |
| IMMERSION SILVER      |                                                           |                  | --                 | --               | --             | --            | --               |                                                |
| COPPER (SEE NOTE 9)   |                                                           |                  | --                 | --               | --             | --            | --               |                                                |
| GOLD                  |                                                           |                  | --                 |                  |                | --            | --               |                                                |

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|                                                                                       |                                                         |                 |              |
|---------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------|--------------|
|  | title R/A RECPT ASSY 7DC-24S-4DC<br>HCI POWER CONNECTOR | dwg no 10082724 | Rev. A       |
|                                                                                       | catalog no -                                            | CUSTOMER        | sheet 3 of 4 |

| PART NUMBER    | RETENTION CLIPS | #4 SCREW | DIM A (TAIL LENGTH) | TAIL TYPE   |
|----------------|-----------------|----------|---------------------|-------------|
| 10082724-001LF | NO              | YES      | 3.43                | SOLDER TAIL |
| 10082724-002LF | NO              | YES      | 4.70                | SOLDER TAIL |
| 10082724-003LF | YES             | NO       | 3.43                | SOLDER TAIL |
| 10082724-004LF | YES             | NO       | 4.70                | SOLDER TAIL |



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. MOUNTING HOLES ARE UNPLATED.



|                                                            |                    |              |
|------------------------------------------------------------|--------------------|--------------|
| title<br>R/A RECPT ASSY 7DC-24S-4DC<br>HCl POWER CONNECTOR | dwg no<br>10082724 | Rev.<br>A    |
| catalog no<br>-                                            | CUSTOMER           | sheet 4 of 4 |