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|                | TOP LAYER                         | TABLE I (HCI POWER)<br>PLATED THROUGH-HOLE REQUIREMENTS   |                     |                       |                     |                    |                  |                     |                             |         |               |              |
|                | DESCRIPTION                       | DRILLED HOLE<br>DIAMETER                                  | COPPER<br>THICKNESS | TIN-LEAD<br>THICKNESS | NICKEL<br>THICKNESS | GOLD<br>THICKNESS  | TIN<br>THICKNESS | SILVER<br>THICKNESS | FINISHED<br>HOLE DIAMETER   |         |               |              |
|                | TIN-LEAD<br>IMMERSION TIN         | 0.81-0.86 (0.85 DRILL)                                    | 0.025 - 0.050       | 0.005 - 0.015         |                     |                    |                  |                     | 0.65 - 0.80<br>0.70 - 0.80  |         |               |              |
| В              | IMMERSION SILVER                  | 0.81-0.86 (0.85 DRILL)<br>0.81-0.86 (0.85 DRILL)          | 0.025 - 0.050       |                       |                     |                    | 0.9 - 1.5um<br>  | 0.15 - 0.65um       | 0.70 - 0.80                 |         |               | В            |
|                | 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                         | TABLE 2 (HPC SIGNALS)<br>PLATED THROUGH-HOLE REQUIREMENTS |                     |                       |                     |                    |                  |                     |                             |         |               |              |
| С              | DESCRIPTION                       | DRILLED HOLE<br>DIAMETER                                  | COPPER<br>THICKNESS | TIN-LEAD<br>THICKNESS | NICKEL<br>THICKNESS | GOLD<br>THICKNESS  | TIN<br>THICKNESS | SILVER<br>THICKNESS | FINISHED<br>HOLE DIAMETER   |         |               | с            |
|                | TIN-LEAD                          | . 25- . 75<br>(Ø.0453±.00 0)                              | 0.025-0.050         | 0.005-0.015           |                     |                    |                  |                     | 0.94 - 1.10<br>(Ø.040±.003) |         |               |              |
|                | IMMERSION TIN<br>IMMERSION SILVER |   |                     |                       |                     |                    |                  |                     |                             |         |               |              |
|                | COPPER (SEE NOTE 9)               |   |                     |                       |                     |                    |                  |                     |                             |         |               | -            |
|                | GOLD                              |   |                     |                       |                     |                    |                  |                     |                             |         |               |              |
|                |                                   |   |                     |                       |                     |                    |                  |                     |                             |         |               |              |
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| Copyright FCL. |                                   |   |                     |                       |                     |                    |                  |                     |                             |         |               |              |
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| Image: Construction matrix is:       Image: Constructis::       Image: Construction matrix is:       I  |   |   |                  |          |     |   | ,               |               |
| <ul> <li>I. CONNECTOR MATERIALS:<br/>HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK<br/>U. 94V-0 COMPLIANT<br/>CONTACTS: HIGH PERFORMANCE COPPER ALLOY</li> <li>2. CONTACT FINISH (ref GS-12-380 SECTION 5.2)</li> <li>3. PRODUCT SPECIFICATION: GS-12-380.</li> <li>4. APPLICATION SPECIFICATION: GS-20-070.</li> <li>3. PRODUCT MARKING (PRODUCT NUMBER &amp; DATE CODE) ON HOUSING IN AREA SHOWN.</li> <li>6. MINIMUM NOMINAL PCB THICKNESS: I.6mm</li> <li>7. PACKAGING METT FILL WITHSTAND EXPOSURE TO 260°C<br/>PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHAST REFLOW OVEN.</li> <li>9 COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE<br/>NO MORE THAN 0.003 LESS THAN OTHER AREAS.</li> <li>10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>10. ALL HOLE SIZES THAN OTHER AREAS.</li> <li>10. ALL HOLE SIZES THAN OTHER AREAS.</li> <li>10. ALL HOLE SIZES THAN OTHER AREAS.</li> <li>10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>11. RECOMMENDED RETINION TO PG:<br/>9 (OTHER HUNDENT OF COMPLEX)</li> <li>12. OTHER HONE SITEN OF THE OF COMPLEXATES<br/>NO MORE THAN 0.003 LESS THAN OTHER AREAS.</li> <li>10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>11. ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>12. ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>13. RECOMMENDED SCREW SEATING TO PCB:<br/>9 (OTHER HUNDE THICKNESS IN CENTER OF VIA-HOLE SIZES.<br/>10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>14. ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>15. RECOMMENDED SCREW SEATING TO PCB THICKNESS:<br/>RECOMMENDED SCREW SEATING TO PCB THICKNESS:<br/>RECOMMENDED SCREW SEATING TO PCB THICKNESS:<br/>RECOMMENDED SCREW SEATING TO PCB TOROUE: 2-5 lbf-in (2300-5760 gf-cm).</li> </ul>   |   |   |                  |          |     |   |                 | С             |
| <ul> <li>HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK<br/>U, 94/-0 COMPLIATI<br/>CONTACTS: HIGH PERFORMANCE COPPER ALLOY</li> <li>CONTACT FINISH (ref GS-12-380 SECTION 5.2)</li> <li>PRODUCT SPECIFICATION: GS-12-380.</li> <li>APPLICATION SPECIFICATION: GS-20-070.</li> <li>PRODUCT MARKING (PRODUCT NUMBER &amp; DATE CODE) ON HOUSING IN AREA SHOWN.</li> <li>MINIMUM NOMINAL PCB THICKNESS: I.Gmm</li> <li>PACKAGING MEETS FCI SPECIFICATION GS-14-1073.</li> <li>HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C<br/>PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>COPPER PLATING THICKNESS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>COPPER PLATING THICKNESS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>COPPER PLATING THICKNESS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>MOMORE THAN 0.003 LESS THAN OTHER AREAS.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>MECOMMENDED RETENTION TO PCB:<br/>Ø0.11012.791 THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br/>HEAD Ø0.0171(4.501).<br/>RECOMMENDED SCREW LENGTH 0.27617.001 + PCB THICKNESS.<br/>RECOMMENDED SCREW LENGTH 0.27617.001 + PCB THICKNESS.<br/>RECOMMENDED SCREW LENGTH 0.27617.001 + PCB THICKNESS.<br/>RECOMMENDED SCREW LENGTH 0.27617.001 + PCB THICKNESS.</li> </ul>   |   | NOTES:  |                  |          |     |   |                 |               |
| 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. 5. PRODUCT MARKING (PRODUCT NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN. 5. MINIMUM NOMINAL PCB THICKNESS: 1.6mm 7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073. 7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073. 7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073. 7. PACKAGING MEETS FCI SPECIFICATION EXPOSUBE TO 260°C PLAK TEMPERATURE FOR 60 SECONS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN. 7. OPT VAPOR PHASE REFLOW OVE   | _ | HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK                              |                  |          |     |   |                 |               |
| <ul> <li>PRODUCT SPECIFICATION: GS-12-380.</li> <li>APPLICATION SPECIFICATION: GS-20-070.</li> <li>PRODUCT MARKING (PRODUCT NUMBER &amp; DATE CODE) ON HOUSING IN AREA SHOWN.</li> <li>MINIMUM NOMINAL PCB THICKNESS: I.6mm</li> <li>PACKAGING MEETS FCI SPECIFICATION GS-14-1073.</li> <li>HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C<br/>PEAN TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>HOUSING COMPONENT WILL WITHSTAND IN CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE<br/>NO MORE THAN 0.031 LESS THAN OTHER AREAS.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>RECOMMENDED RETENTION TO PCB:<br/>Ø0.11012.7191 THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br/>HEAD Ø0.1714(-50).<br/>RECOMMENDED SCREW LENGTH 0.276(7.00) + PCB THICKNESS.<br/>RECOMMENDED SCREW LENGTH 0.276(7.00) + PCB THICKNESS.<br/>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 Ibf-in (2300-5760 gf-cm).</li> </ul>  |   | CONTACTS: HIGH PERFORMANCE COPPER ALLOY                                     |                  |          |     |   |                 |               |
| <ul> <li>4. APPLICATION SPECIFICATION: GS-20-070.</li> <li>(5) PRODUCT MARKING (PRODUCT NUMBER &amp; DATE CODE) ON HOUSING IN AREA SHOWN.</li> <li>(6) MINIMUM NOMINAL PCB THICKNESS: I.6mm</li> <li>7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073.</li> <li>(8) HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 250°C<br/>PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>(9) COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE<br/>NO MORE THAN 0.003 LESS THAN OTHER AREAS.</li> <li>10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>(11) RECOMMENDED RETENTION TO PCB:<br/>Ø 0.10(2.79) THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br/>HEAD Ø 0.171(4.50).<br/>RECOMMENDED SCREW LENGTH 0.276(7.00) + PCB THICKNESS.<br/>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 Ibf-in (2300-5760 gf-cm).</li> </ul>   |   |   |                  |          |     | • | $\checkmark$    |               |
| <ul> <li>MINIMUM NOMINAL PCB THICKNESS: 1.6mm</li> <li>PACKAGING MEETS FCI SPECIFICATION GS-14-1073.</li> <li>HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C<br/>PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE<br/>NO MORE THAN 0.003 LESS THAN OTHER AREAS.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>RECOMMENDED RETENTION TO PCB:<br/>Ø 0.110[2.79] THRU HOLE (UMPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br/>HEAD Ø 0.171(4.50].<br/>RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.<br/>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 Ibf-in (2300-5760 gf-cm).</li> </ul>   |   |   |                  |          |     |   |                 | D             |
| <ul> <li>PACKAGING MEETS FCI SPECIFICATION GS-14-1073.</li> <li>PACKAGING MEETS FCI SPECIFICATION GS-14-1073.</li> <li>PHOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C<br/>PRAT TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE<br/>NO MORE THAN 0.003 LESS THAN OTHER AREAS.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>RECOMMENDED RETENTION TO PCB:<br/>Ø0.11012.791 THRU HOLE (UMPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br/>HEAD Ø0.1771(4.50].<br/>RECOMMENDED SCREW LENGTH 0.27617.00] + PCB THICKNESS.<br/>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 1bf-in (2300-5760 gf-cm).</li> </ul>  |   | (5.) product marking (product number & date code) on housing in area shown. |                  |          |     |   |                 |               |
| <ul> <li>HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C<br/>PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE<br/>NO MORE THAN 0.003 LESS THAN OTHER AREAS.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>RECOMMENDED RETENTION TO PCB:<br/>Ø 0.110[2.79] THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br/>HEAD Ø 0.1171[4.50].<br/>RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.<br/>RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.</li> </ul>  |   | 6.) MINIMUM NOMINAL PCB THICKNESS: I.6mm                                    |                  |          |     |   |                 |               |
| <ul> <li>PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,<br/>OR VAPOR PHASE REFLOW OVEN.</li> <li>COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE<br/>NO MORE THAN 0.003 LESS THAN OTHER AREAS.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>ALL HOLE SIZES ARE FINISHED HOLE SIZES.</li> <li>RECOMMENDED RETENTION TO PCB:<br/>Ø 0.110[2,79] THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br/>HEAD Ø 0.117[4,50].<br/>RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.<br/>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 Ibf-in (2300-5760 gf-cm).</li> </ul>   |   | 7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073.                            |                  |          |     |   |                 |               |
| Image: Provide the state of the state o  |   | $\smile$ peak temperature for 60 seconds in a convection, infra-red,        |                  |          |     |   |                 |               |
| 10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.<br>(1) RECOMMENDED RETENTION TO PCB:<br>Ø0.110[2.79] THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br>HEAD Ø0.171[4.50].<br>RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.<br>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 Ibf-in (2300-5760 gf-cm).  |   | (9.) COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE                  |                  |          |     |   |                 | E             |
| TE COMMENDED RETENTION TO PCB:<br>Ø 0.110[2.79] THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX<br>HEAD Ø 0.177[4.50].<br>RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.<br>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 Ibf-in (2300-5760 gf-cm).  |   |   |                  |          |     |   |                 |               |
| HEAD Ø0.177[4.50].<br>RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.<br>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 lbf-in (2300-5760 gf-cm).  |   |   |                  |          |     |   |                 |               |
| RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.<br>RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 lbf-in (2300-5760 gf-cm).  |   | HEAD Ø 0.177[4.50].   |                  |          |     |   |                 |               |
|  |   | RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.                       | .).              |          |     |   |                 |               |
| F  |   |   |                  |          |     |   |                 | F             |
|  |   |   |                  |          |     |   | <u>•</u>        | Rev.          |
| FSP + HCL POWER CONNECTOR  |   |   |                  |          | нст |   | - CUSTOMER shee | B<br>+ 4 of 4 |
| NY/-MALEUT 2 3 4 5 6   | L | Net - 2 3 4   |                  | 5        |     |   | - CUSTOMER snee |               |