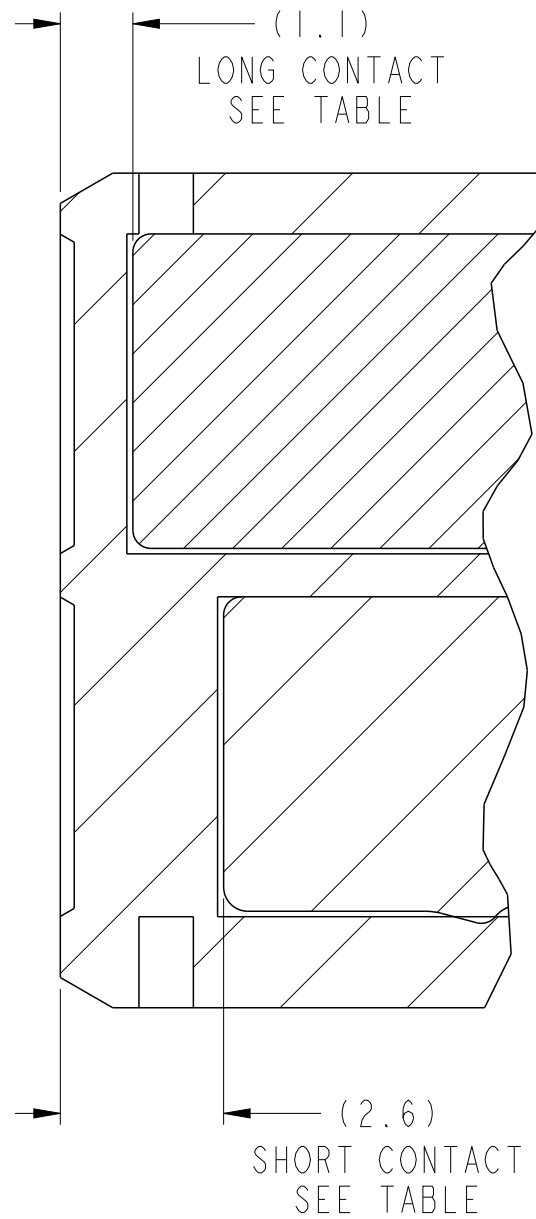
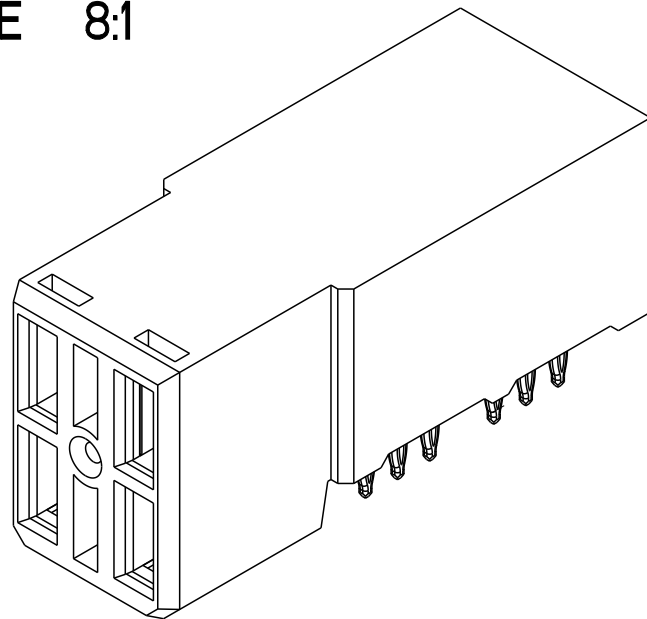


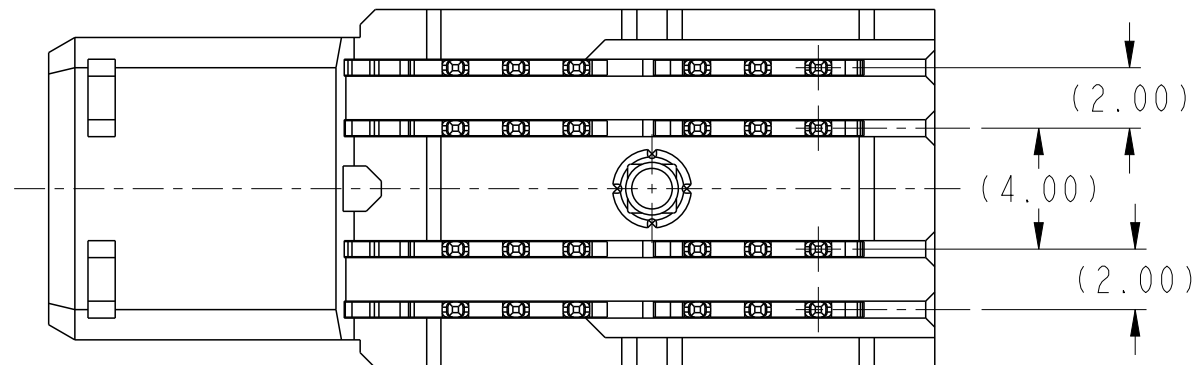
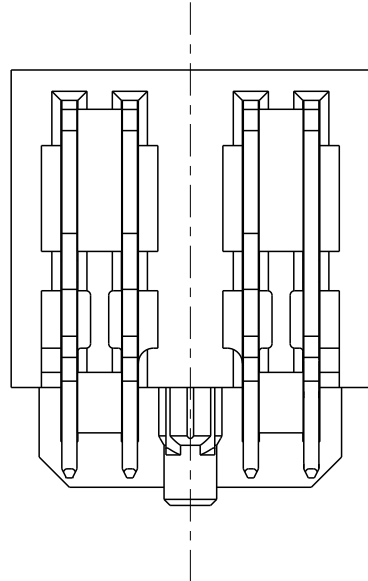
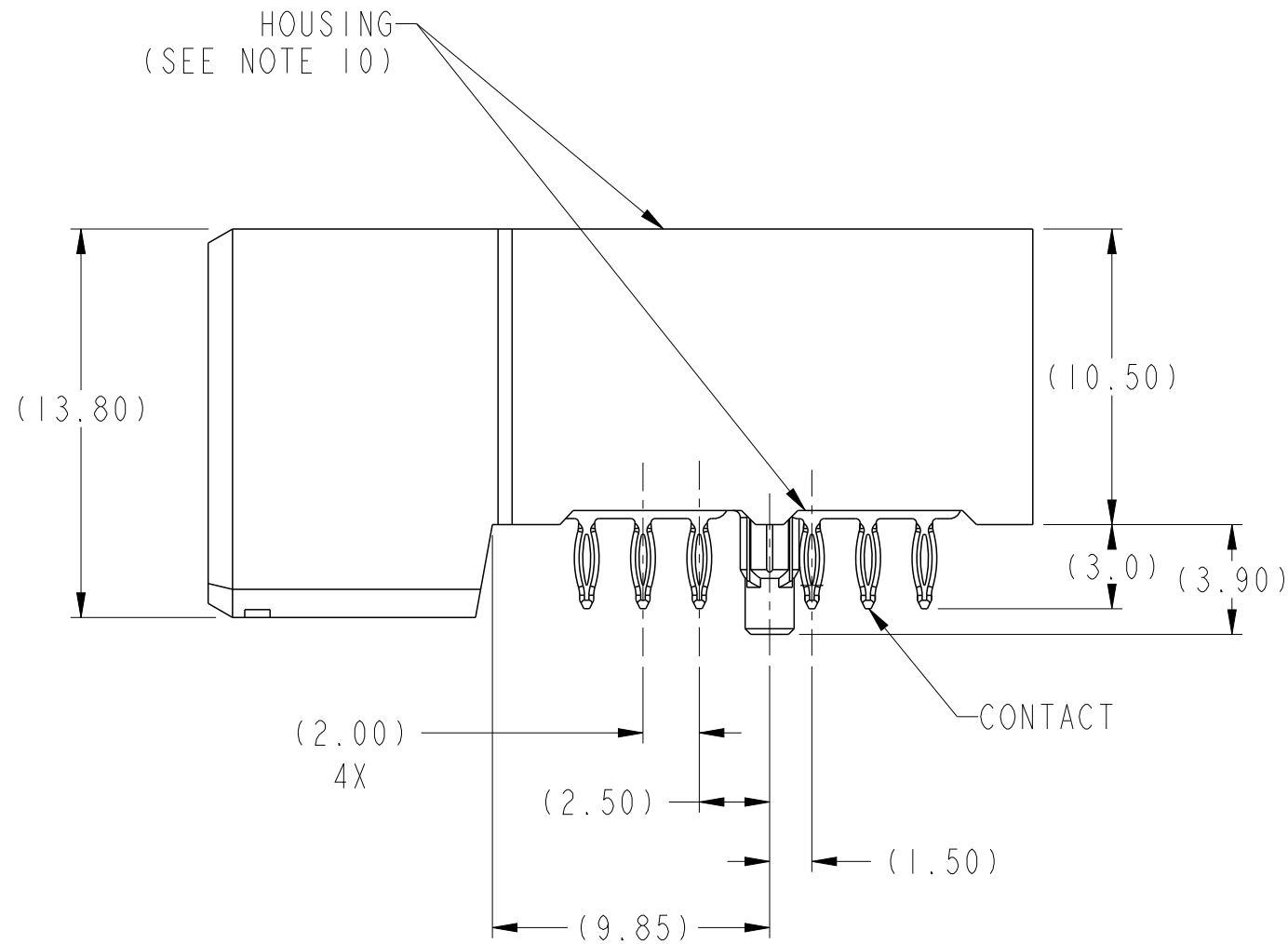
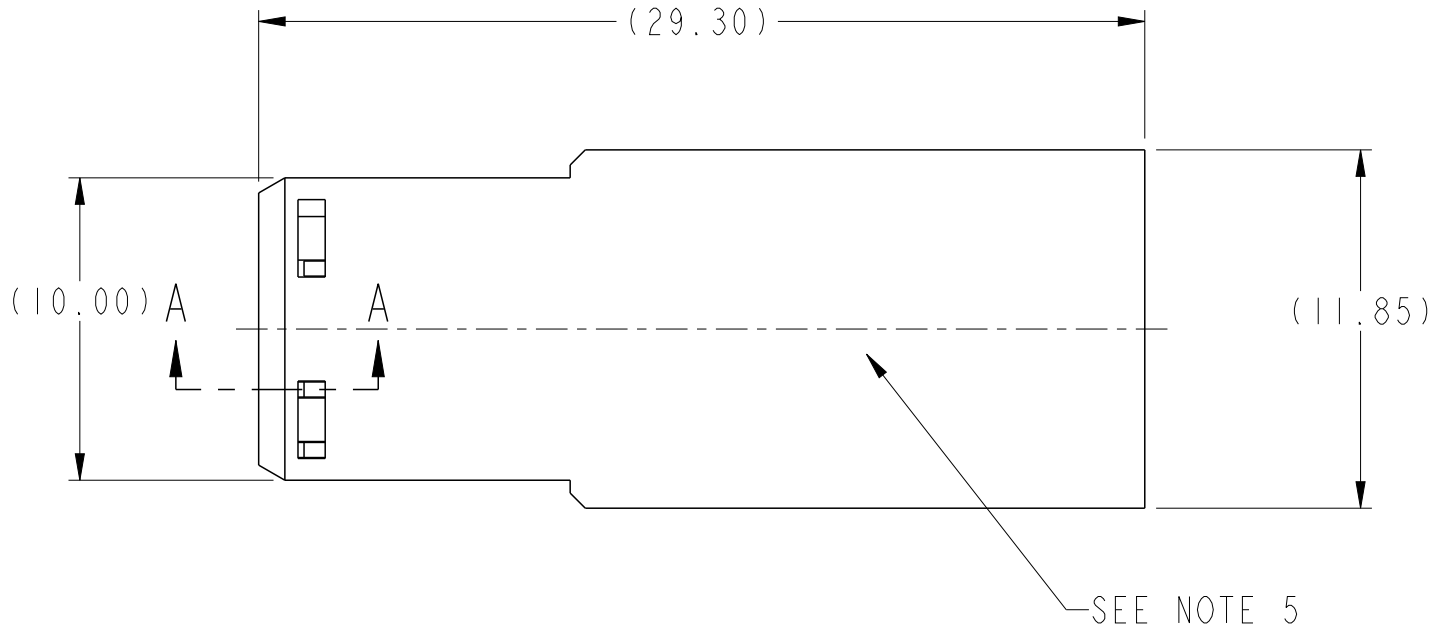
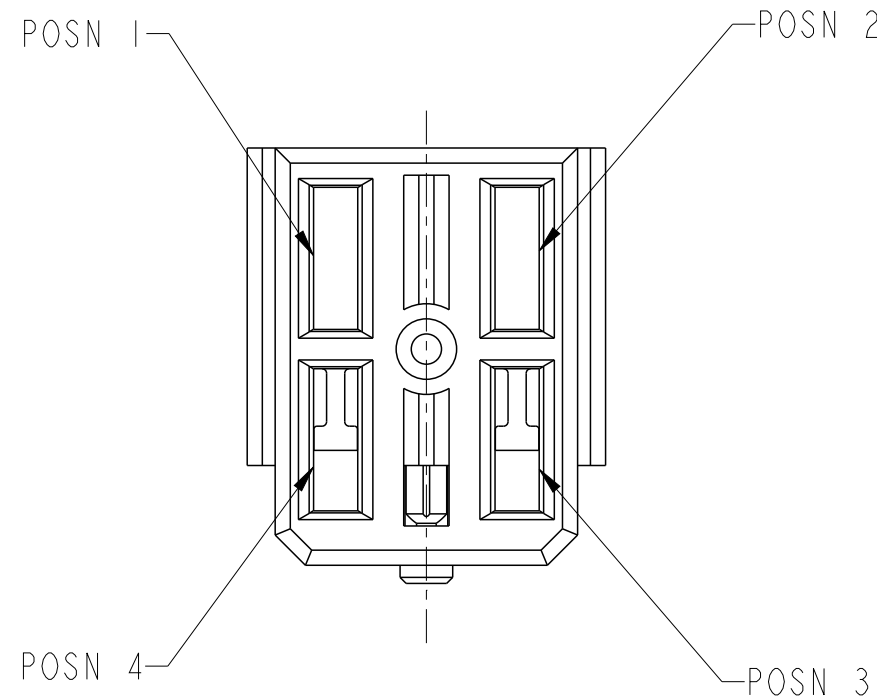
| PRODUCT NUMBER<br>("LF" DENOTES LEAD-FREE) | CONTACT<br>PLATING<br>NOTE | CONTACT DEPTH (SEE SECTION A-A) |        |        |        | ROHS<br>COMPATIBILITY |
|--------------------------------------------|----------------------------|---------------------------------|--------|--------|--------|-----------------------|
|                                            |                            | POSN 1                          | POSN 2 | POSN 3 | POSN 4 |                       |
| 10052620-4444P00LF                         | 2a                         | LONG                            | LONG   | LONG   | LONG   | SEE NOTE 8            |
| 10052620-5555P00LF                         | 2a                         | SHORT                           | SHORT  | SHORT  | SHORT  | SEE NOTE 8            |
| 10052620-4555P00LF                         | 2a                         | LONG                            | SHORT  | SHORT  | SHORT  | SEE NOTE 8            |
| 10052620-5455P00LF                         | 2a                         | SHORT                           | LONG   | SHORT  | SHORT  | SEE NOTE 8            |
| 10052620-5545P00LF                         | 2a                         | SHORT                           | SHORT  | LONG   | SHORT  | SEE NOTE 8            |
| 10052620-5554P00LF                         | 2a                         | SHORT                           | SHORT  | SHORT  | LONG   | SEE NOTE 8            |
| 10052620-4554P00LF                         | 2a                         | LONG                            | SHORT  | SHORT  | LONG   | SEE NOTE 8            |
| 10052620-5544P00LF                         | 2a                         | SHORT                           | SHORT  | LONG   | LONG   | SEE NOTE 8            |
| 10052620-5455P00                           | 2b                         | SHORT                           | LONG   | SHORT  | SHORT  | NA                    |

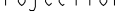


SECTION A-A  
SCALE 8:1



3D VIEW  
SCALE 3:1

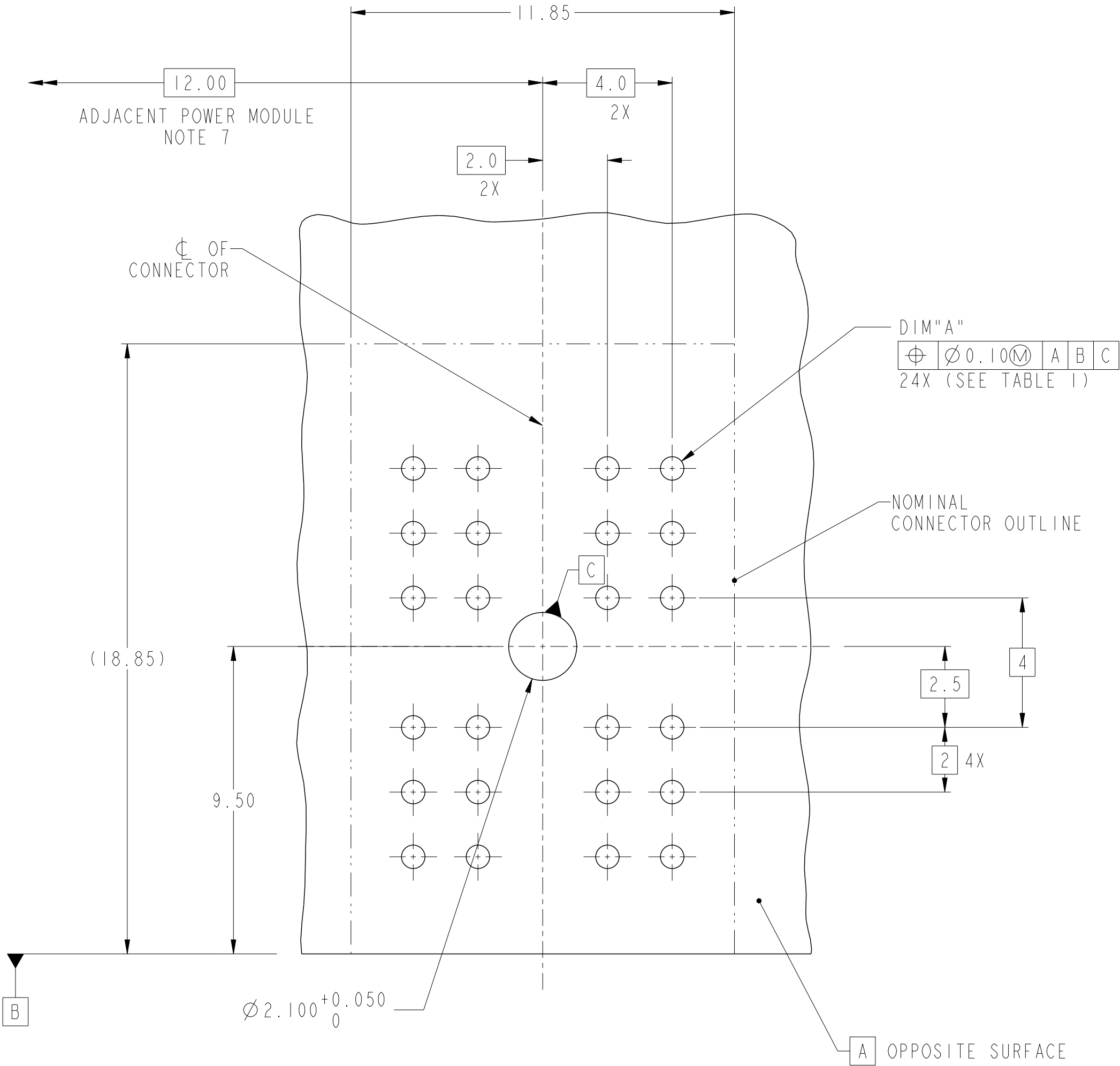


|               |   |                                       |       |        |                 |            |                         |                                                                                       |                |                                                                                       |           |                |       |     |
|---------------|---|---------------------------------------|-------|--------|-----------------|------------|-------------------------|---------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------|-----------|----------------|-------|-----|
| spec ref      |   | GS-12-220                             |       | dr     | wcadmin, wcadm  | 2007/02/10 | projection              |  | MM             |  | size      | A2             | scale | 1:1 |
| tolerance std |   | TOLERANCES UNLESS OTHERWISE SPECIFIED |       | eng    | Terry Luo       | 2018/08/27 |                         |                                                                                       |                |                                                                                       | ecn no    | ELX-DG-30994-1 |       |     |
| ASME Y14.5    |   |                                       |       | chr    | -               | -          |                         |                                                                                       |                |                                                                                       | rel level | Released       |       |     |
| --            |   |                                       |       | appr   | Heaven Cen      | 2018/08/27 | product family          |                                                                                       | 2mm High Power |                                                                                       |           |                |       |     |
| surface       | ✓ | linear                                | 0.X   | ±0.3   | Amphenol<br>FCi | title      | R/A RECEPTACLE ASSY 2X2 |                                                                                       |                |                                                                                       | dwg no    | 10052620       | rev   | J   |
|               |   |                                       | 0.XX  | ±0.10  |                 |            |                         |                                                                                       |                |                                                                                       |           |                |       |     |
|               |   |                                       | 0.XXX | ±0.050 |                 |            |                         |                                                                                       |                |                                                                                       |           |                |       |     |
| ASME Y14.5    |   | angular                               | 0°    | ±2°    |                 | cat. no.   | -                       | Product - Customer Drw                                                                |                |                                                                                       |           | sheet 1 of 2   |       |     |

| TOP LAYER DESCRIPTION | TABLE I<br>PLATED THROUGH-HOLE REQUIREMENTS |                  |                    |                  |                    |               |                  |                                 |
|-----------------------|---------------------------------------------|------------------|--------------------|------------------|--------------------|---------------|------------------|---------------------------------|
|                       | DRILLED HOLE DIAMETER                       | COPPER THICKNESS | TIN-LEAD THICKNESS | NICKEL THICKNESS | GOLD THICKNESS     | TIN THICKNESS | SILVER THICKNESS | FINISHED HOLE DIAMETER (DIM"A") |
| 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 11)  | 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                     |

NOTES:

1. CONNECTOR MATERIALS:  
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK  
UL 94V-0 COMPLIANT  
CONTACT: HIGH PERFORMANCE COPPER ALLOY
2. a) CONTACT PLATING (LEAD FREE):  
PRESS-FIT TAIL: 0.5um MIN MATTE TIN OVER NICKEL.  
SEPARABLE INTERFACE: 0.76um MIN GXT OVER NICKEL.  
b) CONTACT PLATING (LEADED):  
PRESS-FIT TAIL: 0.5um MIN TIN-LEAD OVER NICKEL.  
SEPARABLE INTERFACE: 0.76um MIN GXT OVER NICKEL.
3. PRODUCT SPECIFICATION: GS-12-220
4. APPLICATION SPECIFICATION: GS-20-023
5. PRODUCT MARKING (PRODUCT NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN.
6. MINIMUM NOMINAL PCB THICKNESS: 1.6mm
7. REFER TO CUSTOMER DRAWING 10035911 FOR INFORMATION REGARDING PCB LAYOUT OF POWER AND GUIDE MODULES RELATIVE TO SIGNAL MODULES.
8. PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN FCI SPECIFICATION GS-22-008.
9. PACKAGING MEETS FCI SPECIFICATION GS-14-920.
10. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
11. COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE NO MORE THAN 0.003 LESS THAN OTHER AREAS.



RECOMMENDED PCB LAYOUT  
COMPONENT SIDE NOTE 6 SCALE  
4:1

|               |                                       |        |       |        |                |          |            |                         |                |  |                        |                |                |       |              |  |          |   |
|---------------|---------------------------------------|--------|-------|--------|----------------|----------|------------|-------------------------|----------------|--|------------------------|----------------|----------------|-------|--------------|--|----------|---|
| spec ref      | GS-12-220                             |        |       | dr     | wcadmin, wcadm |          | 2007/02/10 |                         |                |  | size                   | A2             |                | scale | 1:1          |  |          |   |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |       | eng    | Terry Luo      |          | 2018/08/27 |                         |                |  | ecn no                 | ELX-DG-30994-1 |                |       |              |  |          |   |
| ASME Y14.5    |                                       |        |       | chr    | -              |          | -          |                         |                |  | -                      |                | rel level      |       |              |  | Released |   |
|               |                                       |        |       | appr   | Heaven Cen     |          | 2018/08/27 |                         | product family |  |                        |                | 2mm High Power |       |              |  |          |   |
| surface       |                                       | linear | 0.X   | ±0.3   |                |          | title      | R/A RECEPTACLE ASSY 2X2 |                |  |                        | dwg no         | 10052620       |       |              |  | rev      | J |
|               |                                       |        | 0.XX  | ±0.10  |                |          |            |                         |                |  |                        |                |                |       |              |  |          |   |
| ASME Y14.5    |                                       |        | 0.XXX | ±0.050 |                |          |            |                         |                |  |                        |                |                |       |              |  |          |   |
|               | angular                               | 0°     | ±2°   |        |                | cat. no. | -          |                         |                |  | Product - Customer Drw |                |                |       | sheet 2 of 2 |  |          |   |