

SECTION A-A

SECTION B-B

| | | | | | | | | | | |
|---------------------------------------|---------------------|------|------------|------------|----------------|----|---|--------------------|-----------|------------------------|
| spec ref | - | dr | De-Ming Lu | 2014/03/05 | projection | MM | size | A2 | scale | 4:1 |
| tolerance std | ISO 406 ISO 1101 | eng | Sunny2 Liu | 2016/05/06 | | | ecn no | ELX-DG-24036-1 | rel level | Released |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | Terris Liu | 2016/05/20 | | | | | | |
| surface | linear | 0.X | ±0.5 | | product family | | R/A RECT - ENHANCED WALLS S+P CONFIGURATION- UNIVERSAL | dwg no 10128622 | rev C | |
| | | 0.XX | ±0.25 | | cat. no. | | | | | Product - Customer Drw |
| | angular | 0° | ±2° | | sheet 1 of 4 | | | | | |

PDS: Rev :C

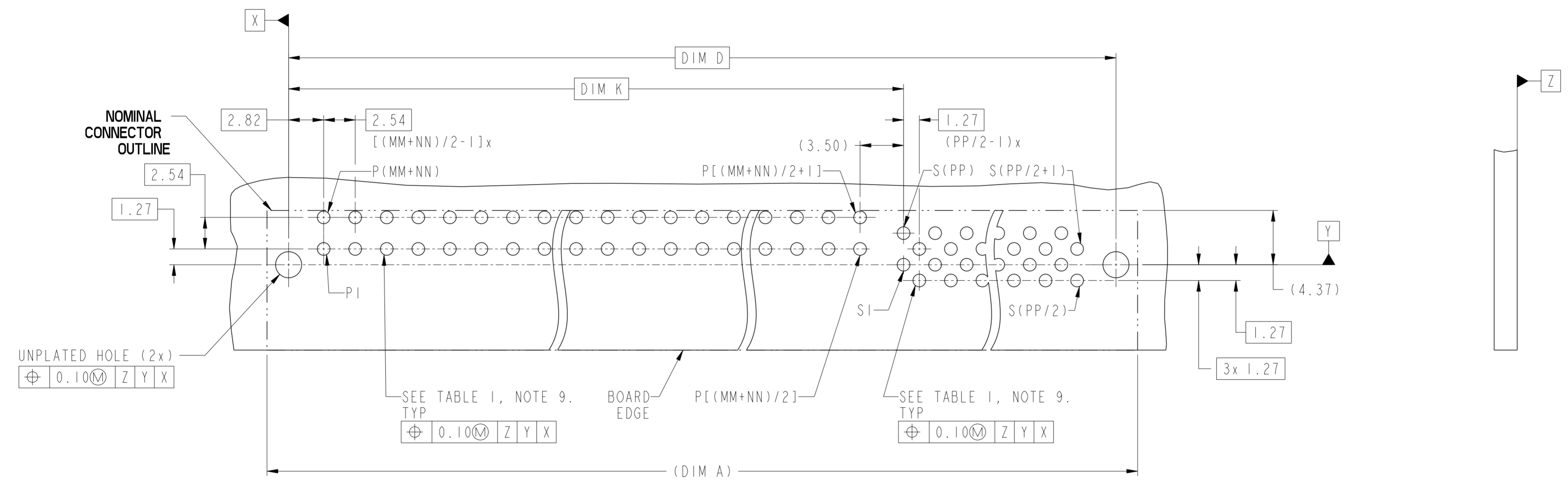
STATUS:Released

Printed: May 24, 2016

Amphenol FCI

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| CONTACT TYPE | TOP LAYER DESCRIPTION | TABLE 1 (HPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS | | | | |
|----------------|-----------------------|---|------------------|--------------------|---------------|------------------------|
| | | DRILLED HOLE DIAMETER | COPPER THICKNESS | TIN-LEAD THICKNESS | TIN THICKNESS | FINISHED HOLE DIAMETER |
| POWER & SIGNAL | TIN-LEAD | 1.10-1.16 (1.15 DRILL) | 0.025 - 0.050 | 0.005 - 0.015 | -- | 0.94 - 1.10 |
| | IMMERSION TIN | 1.10-1.16 (1.15 DRILL) | 0.025 - 0.050 | -- | 0.9 - 1.5um | 0.94 - 1.10 |
| | COPPER (SEE NOTE 8) | 1.10-1.16 (1.15 DRILL) | 0.025 - 0.050 | -- | -- | 0.94 - 1.10 |



RECOMMENDED PCB LAYOUT

| | | | | | | | | | | | | | | |
|---------------|---------------------|------|------------|-----------------|----------------|------------|----------------|----------------|-----------|----------|---------------------------|----------|------------------------|--------------|
| spec ref | - | dr | De-Ming Lu | 2014/03/05 | projection | MM | size | A2 | scale | 4:1 | | | | |
| tolerance std | ISO 406 ISO 1101 | eng | Sunny2 Liu | 2016/05/06 | | | ecn no | ELX-DG-24036-1 | rel level | Released | | | | |
| surface | linear | 0.X | ±0.5 | Amphenol FCi | | | | | | | R/A RECT - ENHANCED WALLS | cat. no. | Product - Customer Drw | sheet 2 of 4 |
| | | 0.XX | ±0.25 | | | | | | | | | | | |
| | angular | 0° | ±2° | chr | Terris Liu | 2016/05/20 | diag no | 10128622 | | | | | | |
| | | | | appr | Pai-Ming Zheng | 2016/05/24 | product family | | | | | | | |

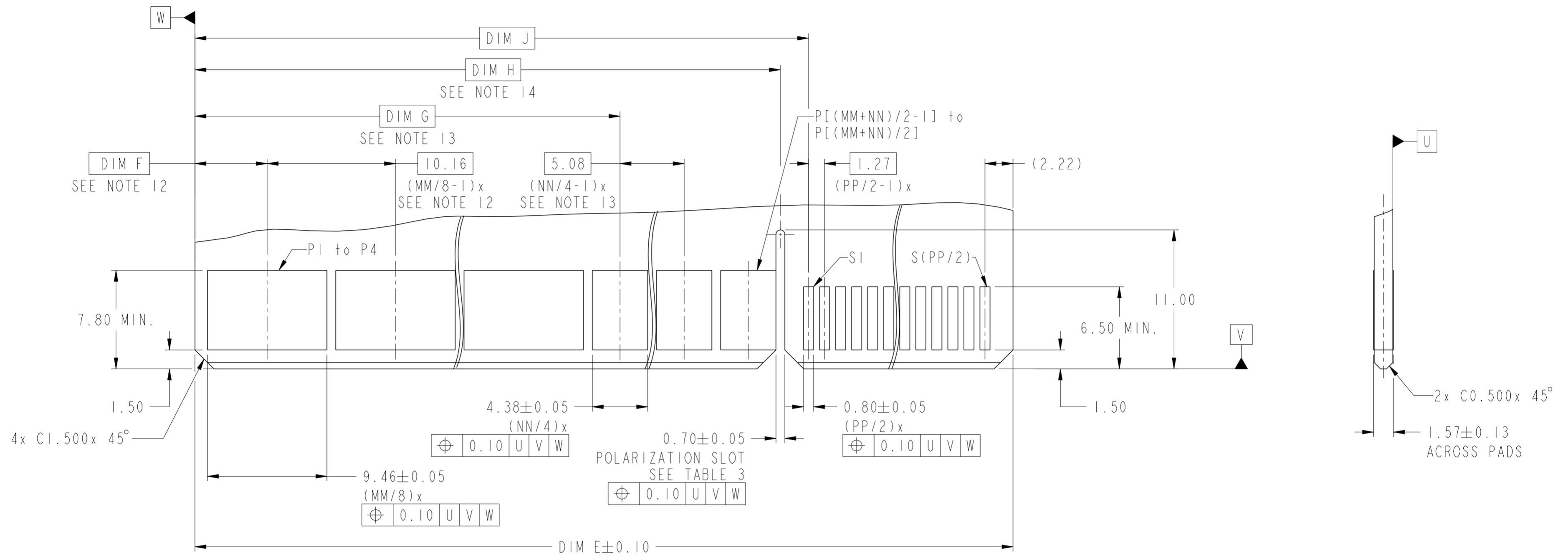
PDS: Rev :C

STATUS:Released

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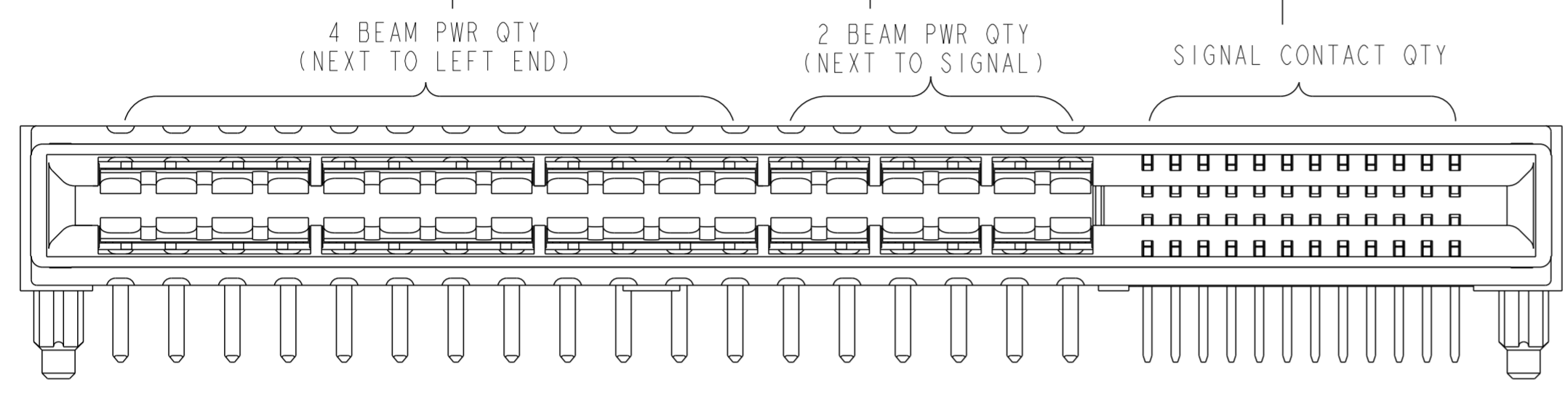
RECOMMENDED MATING BOARD FOOT PRINT

| | | | | | | | | | | | | | | | | | | | |
|---|-------|---------------------|------------|------------------------|----|---|--------------------|--|-------|-------|---------|----|-----|---------------------|--|---|--|-----------------|-------|
| spec ref - | | dr De-Ming Lu | 2014/03/05 | projection | MM | size A2 | scale 4:1 | | | | | | | | | | | | |
| tolerance std ISO 406 ISO 1101 | | eng Sunny2 Liu | 2016/05/06 | | | ecn no ELX-DG-24036-1 | rel level Released | | | | | | | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr Terris Liu | 2016/05/20 | | | | | | | | | | | | | | | | |
| surface ISO 1302 | | appr Pei-Ming Zheng | 2016/05/24 | product family | | cat. no. R/A RECT - ENHANCED WALLS S+P CONFIGURATION- UNIVERSAL | | | | | | | | | | | | | |
| <table border="1" style="font-size: small;"> <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° | Amphenol FCI | | title R/A RECT - ENHANCED WALLS S+P CONFIGURATION- UNIVERSAL | | dwg no 10128622 | rev C |
| linear | 0.X | ±0.5 | | | | | | | | | | | | | | | | | |
| | 0.XX | ±0.25 | | | | | | | | | | | | | | | | | |
| | 0.XXX | ±0.10 | | | | | | | | | | | | | | | | | |
| angular | 0° | ±2° | | | | | | | | | | | | | | | | | |
| | | | | Product - Customer Drw | | sheet 3 of 4 | | | | | | | | | | | | | |

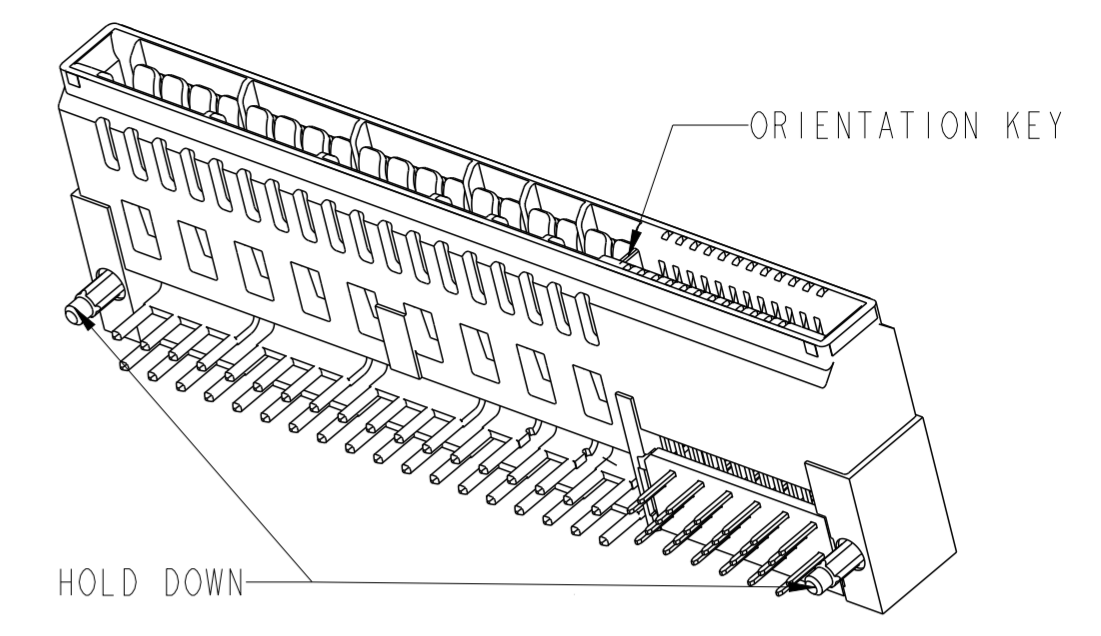
10128622 - MM NN PP LF LEAD FREE

| | | | | | | | | |
|--------------------|-----|-----|-----|-----|------|------|------|------|
| | A | B | C | D | E | F | G | H |
| Tail Length(DIM T) | 2.6 | 2.6 | 2.6 | 2.6 | 3.25 | 3.25 | 3.25 | 3.25 |
| Orientation Key | Y | N | N | Y | Y | N | N | Y |
| Hold Down Option | Y | Y | N | N | Y | Y | N | N |

| | | | |
|------|------|------|------|
| J | K | L | M |
| 2.10 | 2.10 | 2.10 | 2.10 |
| Y | N | N | Y |
| Y | Y | N | N |



CONFIGURATION:
 I: 2BEAM (MM = 00);
 II: 4BEAM (NN = 00);
 III: 4BEAM + 2BEAM;



EXAMPLE: 10128622-241224ELF

Example: The Configuration above is 10128622-241224ELF
 R/A RECEPTACLE 36P24S with Orientation Key and Hold Down.
 24P is 4 beam contacts, 12P is 2 beam contacts.

TABLE 3: PART NUMBER CODE FOR HPCE R/A RECEPTACLE P+S CONFIG

NOTES:

- CONNECTOR MATERIALS:
 HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
 UL 94V-0 COMPLIANT
 CONTACTS: HIGH PERFORMANCE COPPER ALLOY.
- CONTACT FINISH REF. GS-12-604 SECTION 5.2.
- PRODUCT SPECIFICATION: GS-12-604.
- APPLICATION SPECIFICATION: GS-20-128.
- PRODUCT MARKING ON HOUSING IN AREA SHOWN MEETS AFCI SPECIFICATION: GS-24-007.
- PACKAGING MEETS FCI SPECIFICATION GS-14-937.
- HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
- COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE NO MORE THAN 0.003 LESS THAN OTHER AREAS.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED
 $\varnothing 2.18 \pm 0.03$ FOR SOLDER TAILS
- MAXIMUM OVERALL LENGTH IS 100mm.
- DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO 2 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO ORIENTATION KEY.
- ASME SYMBOL WILL BE NEXT ANY DIMENSION, VIEW OR NOTE WHICH HAS BEEN MODIFIED WITH CURRENT DRAWING VERSION

| DIM | TABLE 2: LENGTH FORMULAS | |
|-----------|--|-------------------------------------|
| DIM A (D) | $(MM + NN) / 2 \times 2.54 + (PP / 2) \times 1.27 + 9.12$ | |
| DIM B | DIM A - 5.00 | |
| DIM C | DIM A - 0.94 | |
| DIM D | DIM A - 3.48 | |
| DIM E | DIM A - 5.30 | |
| DIM F | CONFIG. I | 5.72 |
| | CONFIG. II | - |
| | CONFIG. III | 5.72 |
| DIM G | CONFIG. I | - |
| | CONFIG. II | 3.18 |
| | CONFIG. III | $(MM / 8 - 1) \times 10.16 + 13.34$ |
| DIM H | $(MM / 8 - 1) \times 10.16 + (NN / 4 - 1) \times 5.08 + 15.88$ | |
| DIM J | $(MM / 8 - 1) \times 10.16 + (NN / 4 - 1) \times 5.08 + 18.11$ | |
| DIM K | $[(MM + NN) / 2 - 1] \times 2.54 + 6.32$ | |
| DIM T | 2.6 or 3.25 | |

| | | | | | | | | | | | | |
|---------------------------------------|---------------------|---------|------------|------------|------------------------------|----|--------|----------------|-----------|---------------------------|--|----------|
| spec ref | - | dr | De-Ming Lu | 2014/03/05 | projection | MM | size | A2 | scale | 4:1 | | |
| tolerance std | ISO 406 ISO 1101 | eng | Sunny2 Liu | 2016/05/06 | | | ecn no | ELX-DG-24036-1 | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | Terris Liu | 2016/05/20 | | | | product family | rel level | Released | | |
| surface | linear | angular | 0.X | ±0.5 | | | | | | R/A RECT - ENHANCED WALLS | | cat. no. |
| | | | 0.XX | ±0.25 | S+P CONFIGURATION- UNIVERSAL | | | | | | | |
| | | | 0.XXX | ±0.10 | | | | | | | | |
| | | | 0° | ±2° | | | | | | | | |

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