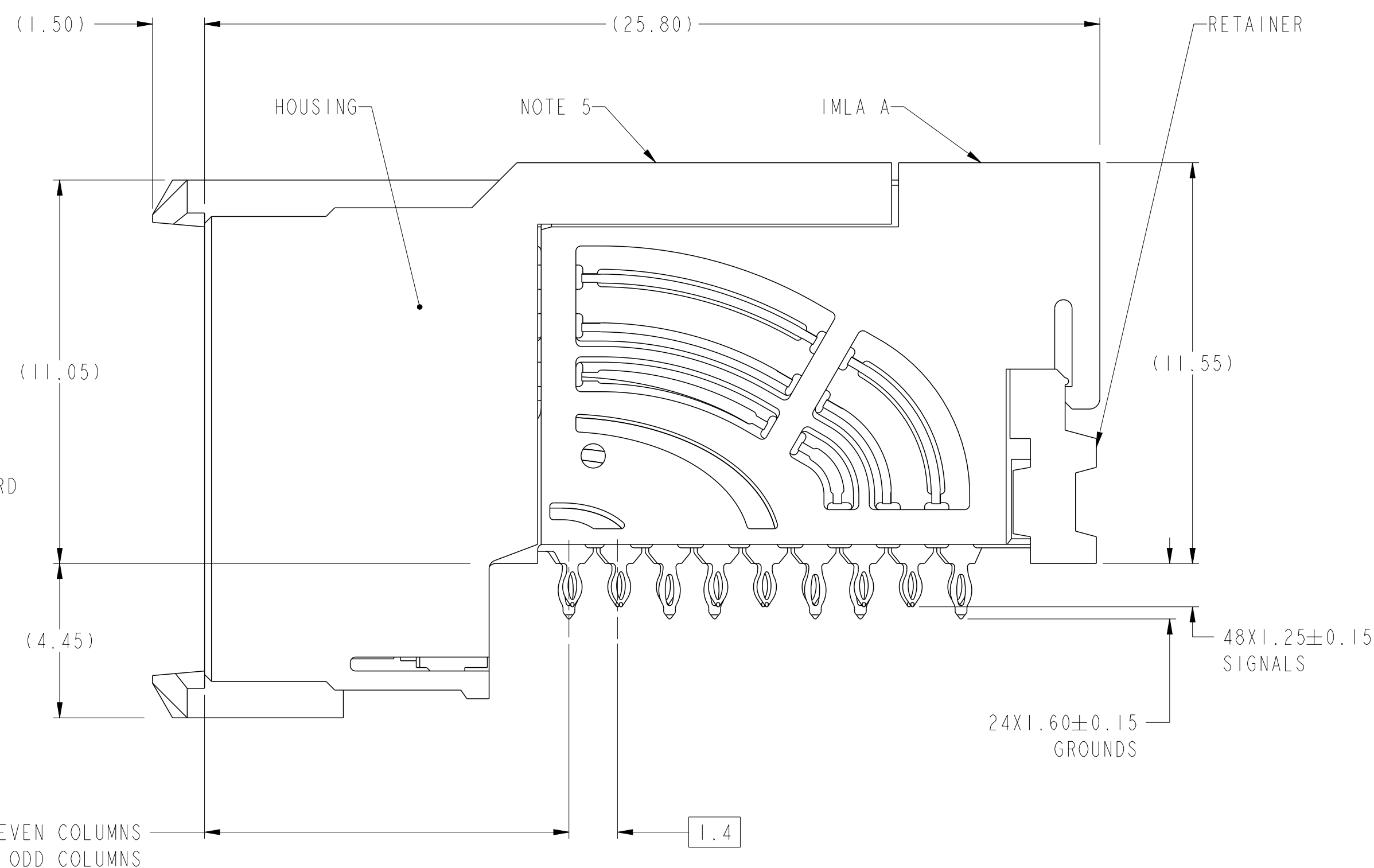
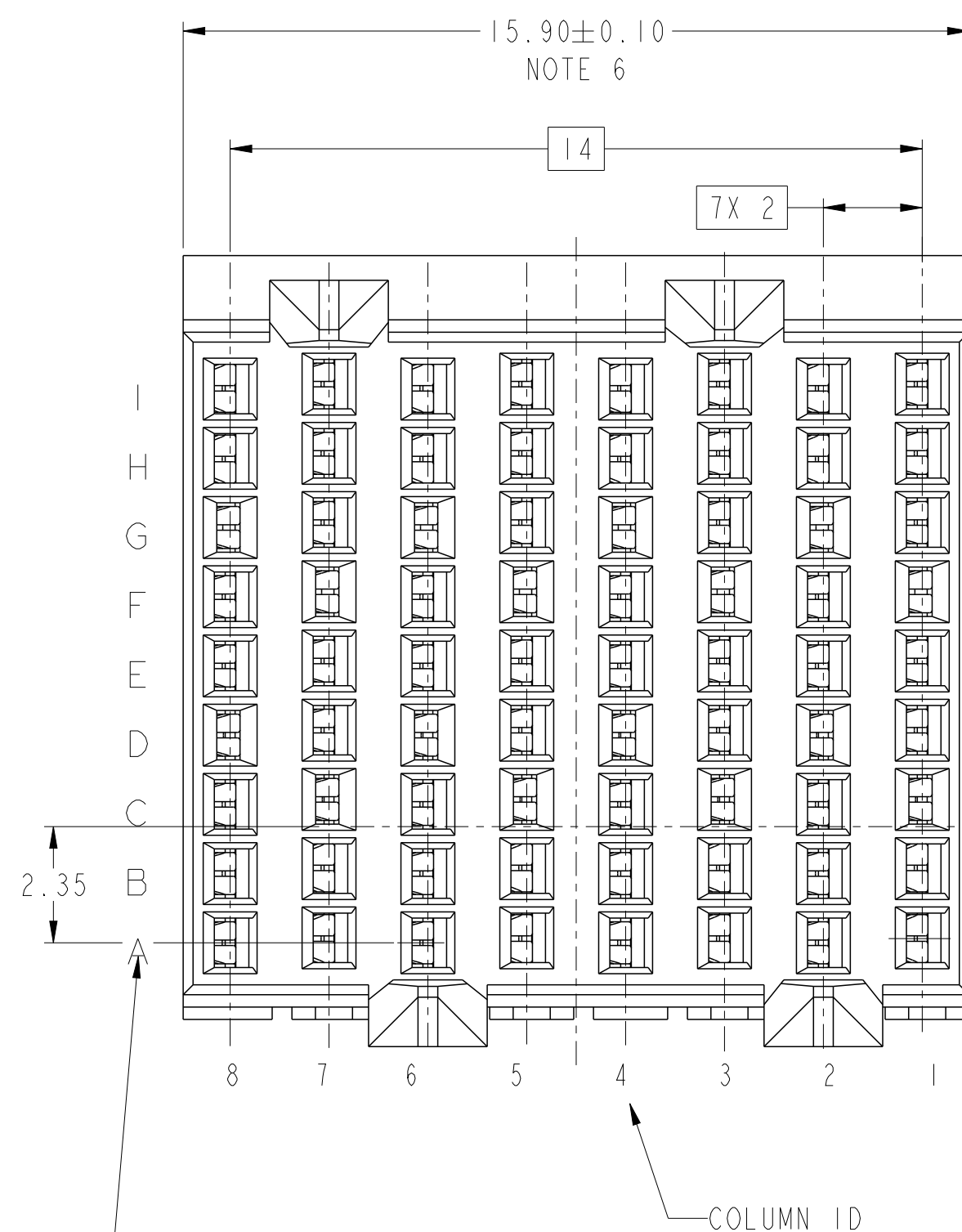
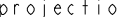
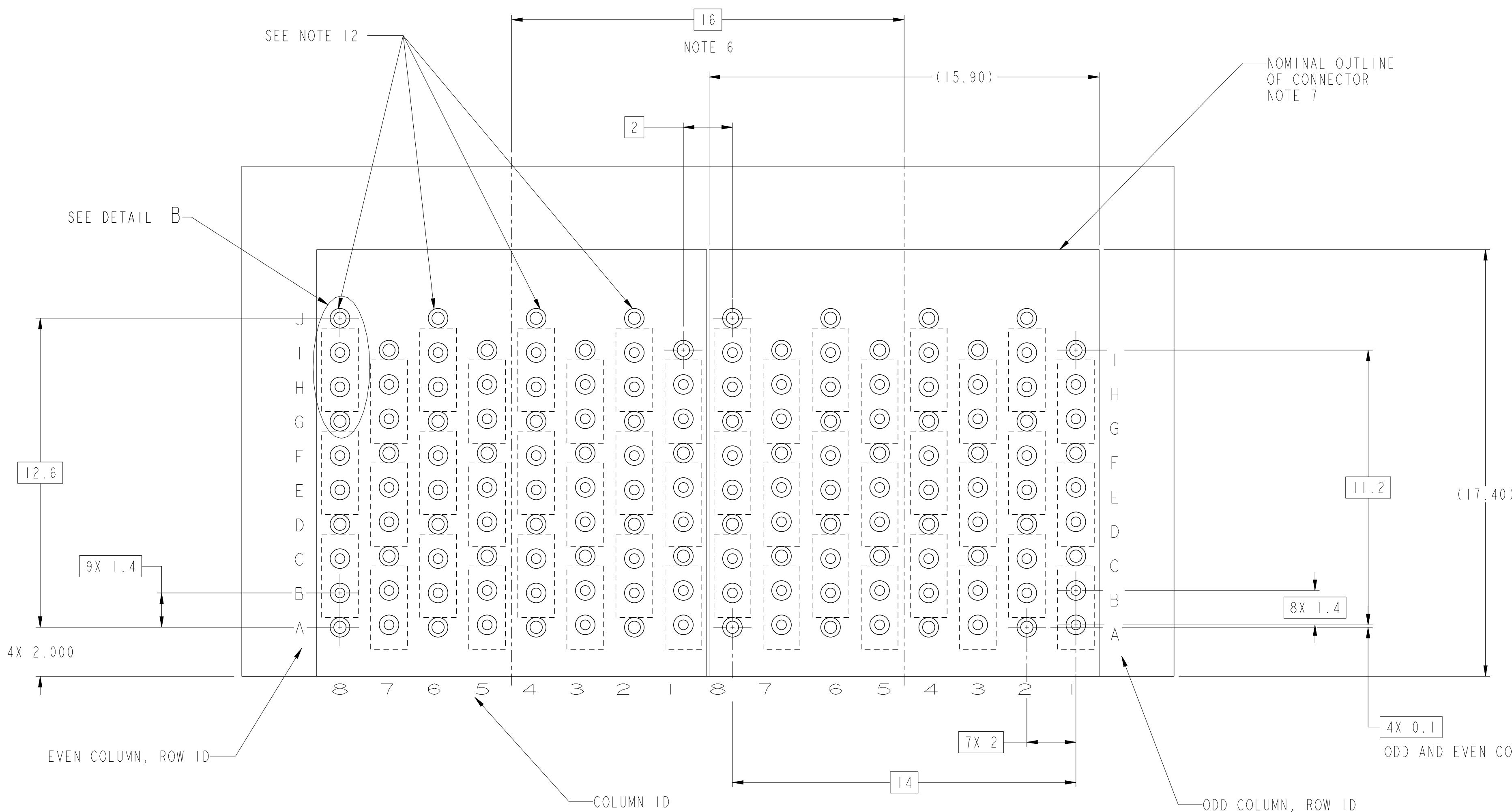


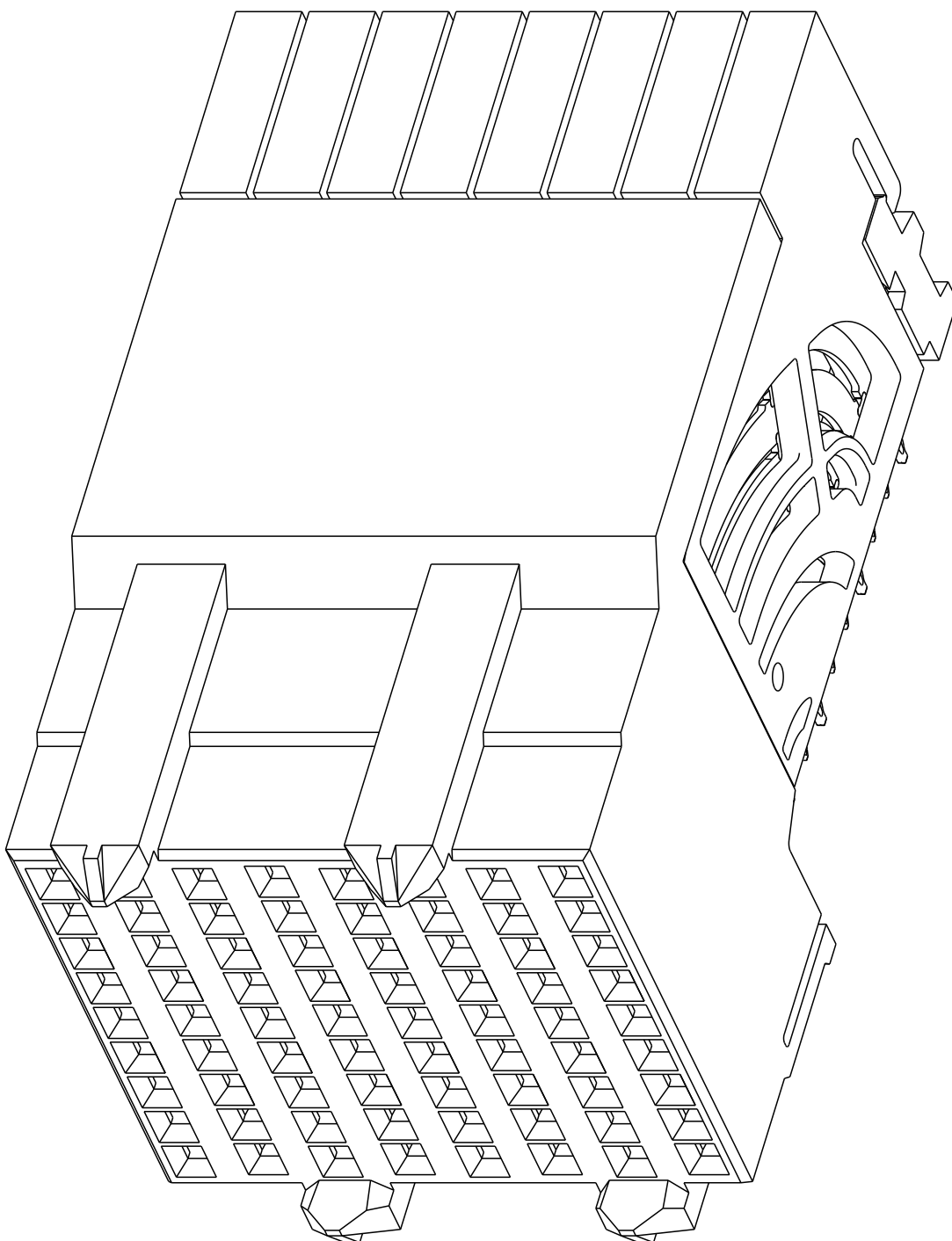


|                                                                                                          |  |                                       |  |                                                                                       |  |              |  |                            |  |                                                                                       |  |                                                                                       |  |           |  |                        |  |              |  |     |  |
|----------------------------------------------------------------------------------------------------------|--|---------------------------------------|--|---------------------------------------------------------------------------------------|--|--------------|--|----------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------|--|------------------------|--|--------------|--|-----|--|
| spec ref                                                                                                 |  | ---                                   |  | dr                                                                                    |  | Lin-See Ngwe |  | 2012/10/05                 |  | projection                                                                            |  | MM                                                                                    |  | size      |  | A2                     |  | scale        |  | 1:1 |  |
| tolerance std                                                                                            |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  | eng                                                                                   |  | Jackie Chen  |  | 2015/02/06                 |  |  |  |  |  | ecn no    |  | ELX-DG-2016-1          |  |              |  |     |  |
| ASME Y14.5M                                                                                              |  |                                       |  | chr                                                                                   |  | -            |  | -                          |  |                                                                                       |  |                                                                                       |  | rel level |  | Release                |  |              |  |     |  |
| <div>surface </div> |  | linear                                |  | appr                                                                                  |  | Collins Lu   |  | 2015/02/06                 |  | product family                                                                        |  | AirMax VSE                                                                            |  | dwg no    |  | 10122263               |  | sheet 1 of 3 |  |     |  |
|                                                                                                          |  |                                       |  |  |  | title        |  | AIRMAX VSE R.A. RECEPTACLE |  | ASS'Y, 3 PAIR, 72 POS, 8 IMLA, 16MM                                                   |  | cat. no.                                                                              |  | -         |  | Product - Customer Drw |  | sheet 1 of 3 |  |     |  |
|                                                                                                          |  |                                       |  |                                                                                       |  |              |  |                            |  |                                                                                       |  |                                                                                       |  |           |  |                        |  |              |  |     |  |
|                                                                                                          |  |                                       |  |                                                                                       |  |              |  |                            |  |                                                                                       |  |                                                                                       |  |           |  |                        |  |              |  |     |  |
|                                                                                                          |  |                                       |  | 0.X                                                                                   |  | ±.3          |  |                            |  |                                                                                       |  |                                                                                       |  |           |  |                        |  |              |  |     |  |
|                                                                                                          |  |                                       |  | 0.XX                                                                                  |  | ±.10         |  |                            |  |                                                                                       |  |                                                                                       |  |           |  |                        |  |              |  |     |  |
|                                                                                                          |  |                                       |  | 0.XXX                                                                                 |  | ±.050        |  |                            |  |                                                                                       |  |                                                                                       |  |           |  |                        |  |              |  |     |  |
|                                                                                                          |  | angular                               |  | 0°                                                                                    |  | ±            |  |                            |  |                                                                                       |  |                                                                                       |  |           |  |                        |  |              |  |     |  |
|                                                                                                          |  |                                       |  |                                                                                       |  | www.fci.com  |  |                            |  |                                                                                       |  |                                                                                       |  |           |  |                        |  |              |  |     |  |



RECOMMENDED PCB LAYOUT  
FOR DIFFERENTIAL APPLICATIONS  
COMPONENT SIDE  
(TWO ADJACENT FOOTPRINTS SHOWN)  
NOTES 6, 8, & 11

|                                       |             |         |              |             |             |          |                            |                        |                       |          |
|---------------------------------------|-------------|---------|--------------|-------------|-------------|----------|----------------------------|------------------------|-----------------------|----------|
| spec ref                              | ---         | dr      | Lin-Soe Ngwe | 2012/10/05  | projection  | MM       | size                       | A2                     | scale                 | 1:1      |
| tolerance std                         | ASME Y14.5M | eng     | Jackie Chen  | 2015/02/06  |             | MM       | ecn no                     | ELX-DG-20165-1         |                       |          |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |             | chr     | -            | -           |             |          | rel level                  | Released               |                       |          |
|                                       |             | appr    | Collins Lu   | 2015/02/06  |             |          | product family             | AirMax VSE             |                       |          |
| surface                               | ✓           | linear  | 0.X          | ±.3         |             | title    | AIRMAX VSE R.A. RECEPTACLE |                        | dwg no                | 10122263 |
|                                       |             |         | 0.XX         | ±.10        |             |          |                            |                        |                       |          |
|                                       |             |         | 0.XXX        | ±.050       |             |          |                            |                        |                       |          |
|                                       |             | angular | 0°           | ±°          | www.fci.com | cat. no. | -                          | Product - Customer Drw | sheet 2 of 3          | rev      |
|                                       |             |         |              | PDS: Rev :B |             |          | STATUS:Released            |                        | Printed: Feb 09, 2015 |          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                             |   |         |   |              |   |            |          |             |     |          |    |                            |              |                |            |           |            |          |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|---|---------|---|--------------|---|------------|----------|-------------|-----|----------|----|----------------------------|--------------|----------------|------------|-----------|------------|----------|----|--|------|--|----|--|-------|--|-----|--|---------------|--|-------------|--|-----|--|-------------|--|------------|--|-----|--|---|--|--------|--|----------------|--|-----------|--|----------|--|---------|--|---|--|--------|--|-----|--|-----|--|-----|--|-------|--|----------------------------|--|--------|--|----------|--|-----|--|--|--|--|--|---------|--|----|--|----|--|-------------|--|----------|--|------------------------|--|--------------|--|--|--|---|--|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 2                           | 3 | 4       | 5 | 6            | 7 | 8          |          |             |     |          |    |                            |              |                |            |           |            |          |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |
| PRODUCT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | PRESS-FIT TAIL PLATING TYPE |   |         |   |              |   |            |          |             |     |          |    |                            |              |                |            |           |            |          |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |
| 10122263-101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | TIN/LEAD ALLOY OVER NICKEL  |   |         |   |              |   |            |          |             |     |          |    |                            |              |                |            |           |            |          |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |
| 10122263-101LF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | TIN OVER NICKEL (LEAD FREE) |   |         |   |              |   |            |          |             |     |          |    |                            |              |                |            |           |            |          |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |
| <div><div><div>1</div><div>- CONNECTOR MATERIALS:<br/>HOUSING: HIGH TEMP THERMOPLASTIC, NATURAL, UL94-V0<br/>IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0<br/>CONTACT: COPPER ALLOY<br/>ORGANIZER: HIGH TEMP THERMOPLASTIC, NATURAL, UL94-V0</div></div><div><div>2</div><div>- CONTACT PLATING:<br/>SEPARABLE INTERFACE:<br/>PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-0956 INCLUDING TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST SEQUENCE<br/><br/>PRESS-FIT TAILS: SEE TABLE</div></div><div><div>3</div><div>- PRODUCT SPECIFICATION: GS-12-0956</div></div><div><div>4</div><div>- APPLICATION SPECIFICATION: GS-20-0305.</div></div><div><div>5</div><div>- PRODUCT MARKING, (PART NUMBER &amp; LOT CODE), ON THIS SURFACE.</div></div><div><div>6</div><div>- THE MINIMUM CENTERLINE SPACING BETWEEN ADJACENT MODULES IS 16.0 MM.</div></div><div><div>7</div><div>- CONNECTOR OUTLINE MAY BE SCREEN PRINTED ONTO CUSTOMER PCB TO BE USED AS A GUIDE FOR MANUAL CONNECTOR PLACEMENT.</div></div><div><div>8</div><div>- REFER TO CUSTOMER DRAWING 10104444 FOR INFORMATION ON PCB HOLE DIAMETERS AND PLATING OPTIONS</div></div><div><div>9</div><div>- LEAD FREE PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES &amp; OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008</div></div><div><div>10</div><div>- PACKAGING MEETS GS-14-920 LEAD FREE LABELING SPECIFICATION.</div></div><div><div>11</div><div>- GROUND CONTACTS (C,F, AND I IN ODD COLUMNS AND A, D, AND G, EVEN COLUMNS) REQUIRE (Ø0.500) FINISHED HOLES. SIGNAL LOCATIONS REQUIRE (Ø0.400) FINISHED HOLES.</div></div><div><div>12</div><div>- THESE OUTER VIAS (J) ARE OPTIONAL. WHILE NO CONNECTOR EONS ARE PRESSED INTO THESE HOLES WE RECCOMMEND (Ø0.500) FINISHED HOLES AT THESE LOCATIONS TO PROVIDE GROUND SYMMETRY THROUGH THE PCB.</div></div></div> <div></div> <div><div><div>76X(Ø0.80)</div><div>(1.50)</div><div>28X (Ø0.50)<br/>GROUND AND J VIA<br/>NOTES 8, 11, AND 12</div><div>48X (48X(Ø0.40)<br/>SIGNAL<br/>NOTES 8 AND 11</div><div>(3.40)</div><div>DETAIL B<br/>SCALE 16:1</div></div><div>10122263-101 OR -101LF</div></div> <table><tr><td colspan="2">spec ref</td><td colspan="2">---</td><td colspan="2">dr</td><td colspan="2">Lin-See Ngwe</td><td colspan="2">2012/10/05</td><td colspan="2">projection</td><td colspan="2">MM</td><td colspan="2">size</td><td colspan="2">A2</td><td colspan="2">scale</td><td colspan="2">4:1</td></tr><tr><td colspan="2">tolerance std</td><td colspan="2">ASME Y14.5M</td><td colspan="2">eng</td><td colspan="2">Jackie Chen</td><td colspan="2">2015/02/06</td><td colspan="2">chr</td><td colspan="2">-</td><td colspan="2">ecn no</td><td colspan="2">ELX-00-20165-1</td><td colspan="2">rel level</td><td colspan="2">Released</td></tr><tr><td colspan="2">surface</td><td colspan="2">✓</td><td colspan="2">linear</td><td colspan="2">0.X</td><td colspan="2">±.3</td><td colspan="2">FCI</td><td colspan="2">title</td><td colspan="2">AIRMAX VSE R.A. RECEPTACLE</td><td colspan="2">dwg no</td><td colspan="2">10122263</td><td colspan="2">rev</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2">angular</td><td colspan="2">0°</td><td colspan="2">±°</td><td colspan="2">www.fci.com</td><td colspan="2">cat. no.</td><td colspan="2">Product - Customer Drw</td><td colspan="2">sheet 3 of 3</td><td colspan="2"></td><td colspan="2">B</td></tr></table> <div><div>PDS: Rev :B</div><div>STATUS:Released</div><div>Printed: Feb 09, 2015</div></div> |  |                             |   |         |   |              |   |            | spec ref |             | --- |          | dr |                            | Lin-See Ngwe |                | 2012/10/05 |           | projection |          | MM |  | size |  | A2 |  | scale |  | 4:1 |  | tolerance std |  | ASME Y14.5M |  | eng |  | Jackie Chen |  | 2015/02/06 |  | chr |  | - |  | ecn no |  | ELX-00-20165-1 |  | rel level |  | Released |  | surface |  | ✓ |  | linear |  | 0.X |  | ±.3 |  | FCI |  | title |  | AIRMAX VSE R.A. RECEPTACLE |  | dwg no |  | 10122263 |  | rev |  |  |  |  |  | angular |  | 0° |  | ±° |  | www.fci.com |  | cat. no. |  | Product - Customer Drw |  | sheet 3 of 3 |  |  |  | B |  |
| spec ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | ---                         |   | dr      |   | Lin-See Ngwe |   | 2012/10/05 |          | projection  |     | MM       |    | size                       |              | A2             |            | scale     |            | 4:1      |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |
| tolerance std                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | ASME Y14.5M                 |   | eng     |   | Jackie Chen  |   | 2015/02/06 |          | chr         |     | -        |    | ecn no                     |              | ELX-00-20165-1 |            | rel level |            | Released |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |
| surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | ✓                           |   | linear  |   | 0.X          |   | ±.3        |          | FCI         |     | title    |    | AIRMAX VSE R.A. RECEPTACLE |              | dwg no         |            | 10122263  |            | rev      |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                             |   | angular |   | 0°           |   | ±°         |          | www.fci.com |     | cat. no. |    | Product - Customer Drw     |              | sheet 3 of 3   |            |           |            | B        |    |  |      |  |    |  |       |  |     |  |               |  |             |  |     |  |             |  |            |  |     |  |   |  |        |  |                |  |           |  |          |  |         |  |   |  |        |  |     |  |     |  |     |  |       |  |                            |  |        |  |          |  |     |  |  |  |  |  |         |  |    |  |    |  |             |  |          |  |                        |  |              |  |  |  |   |  |



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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