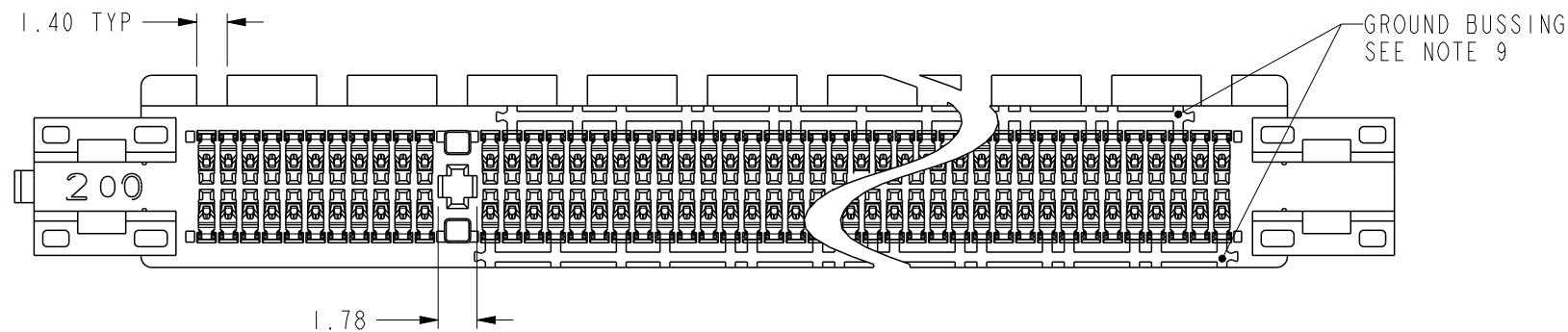
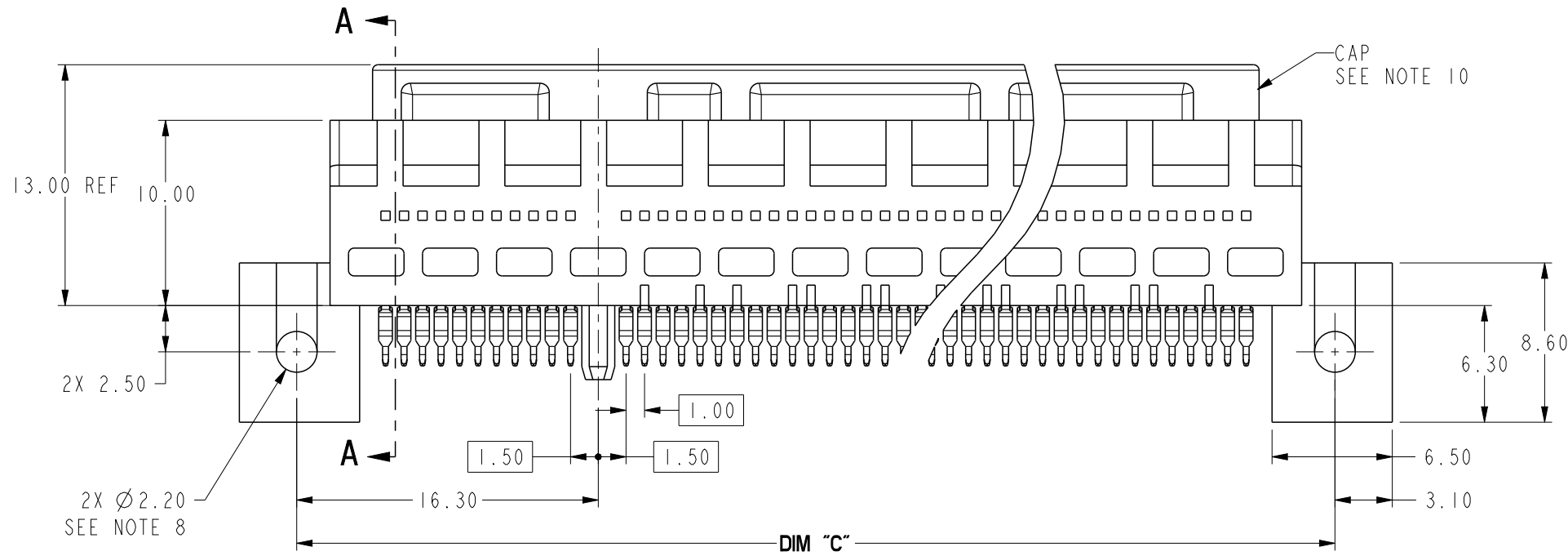
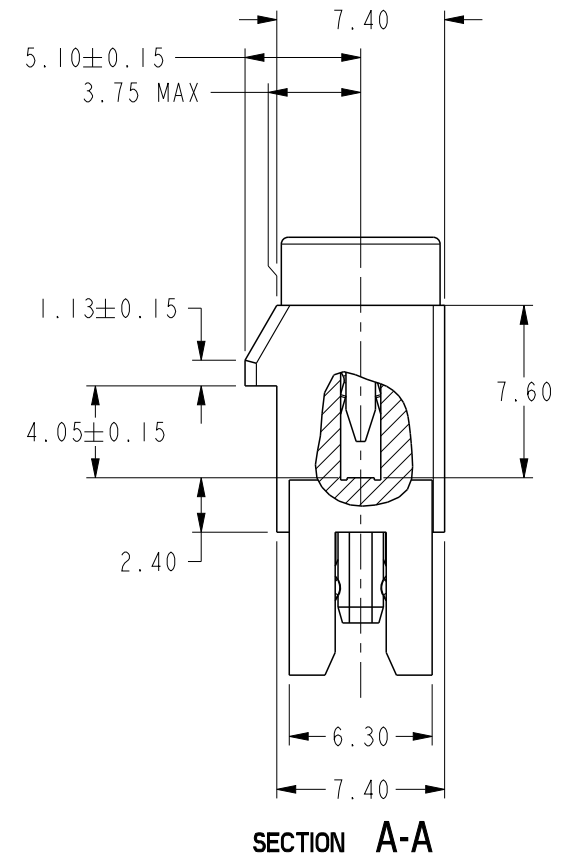
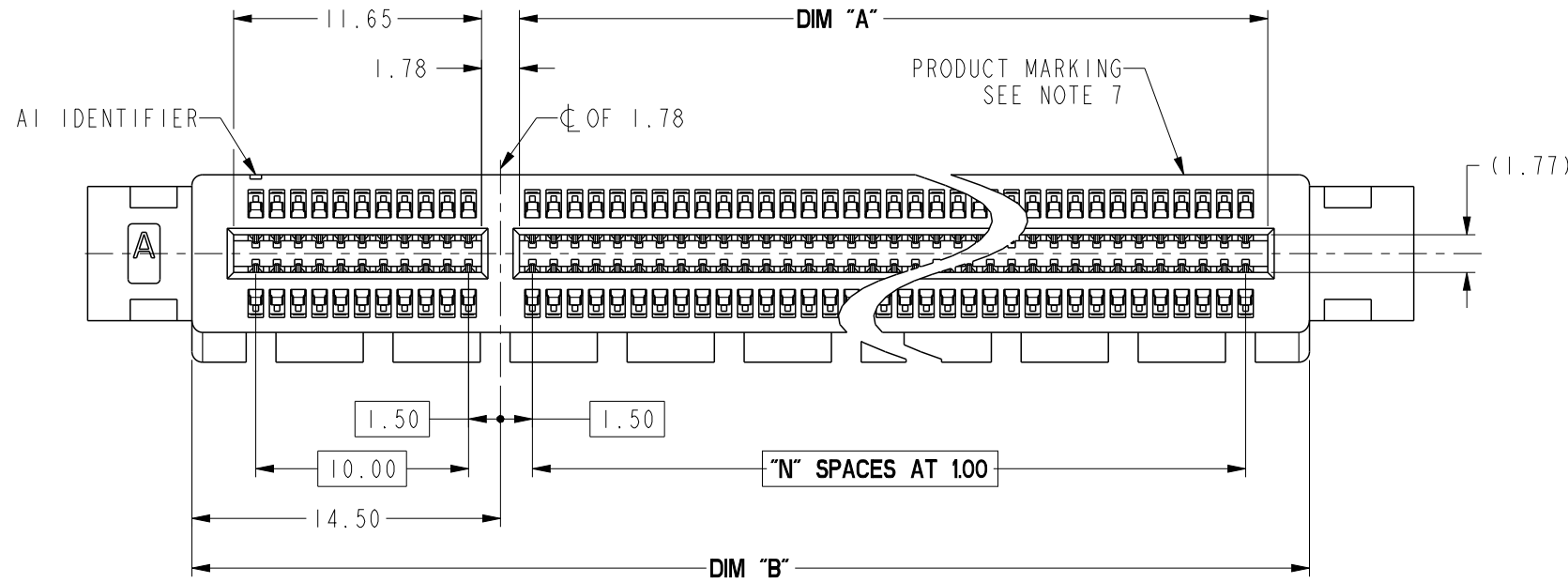


PRELIMINARY



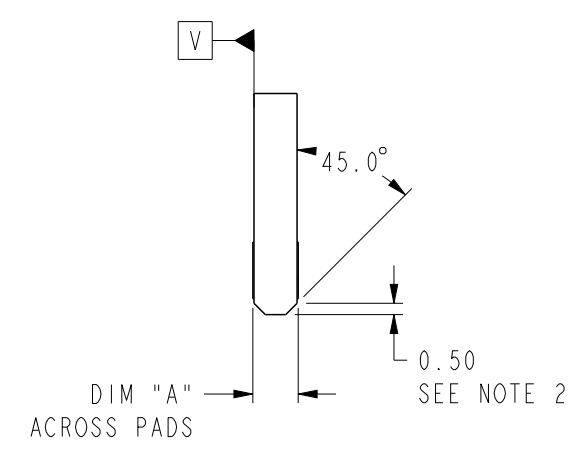
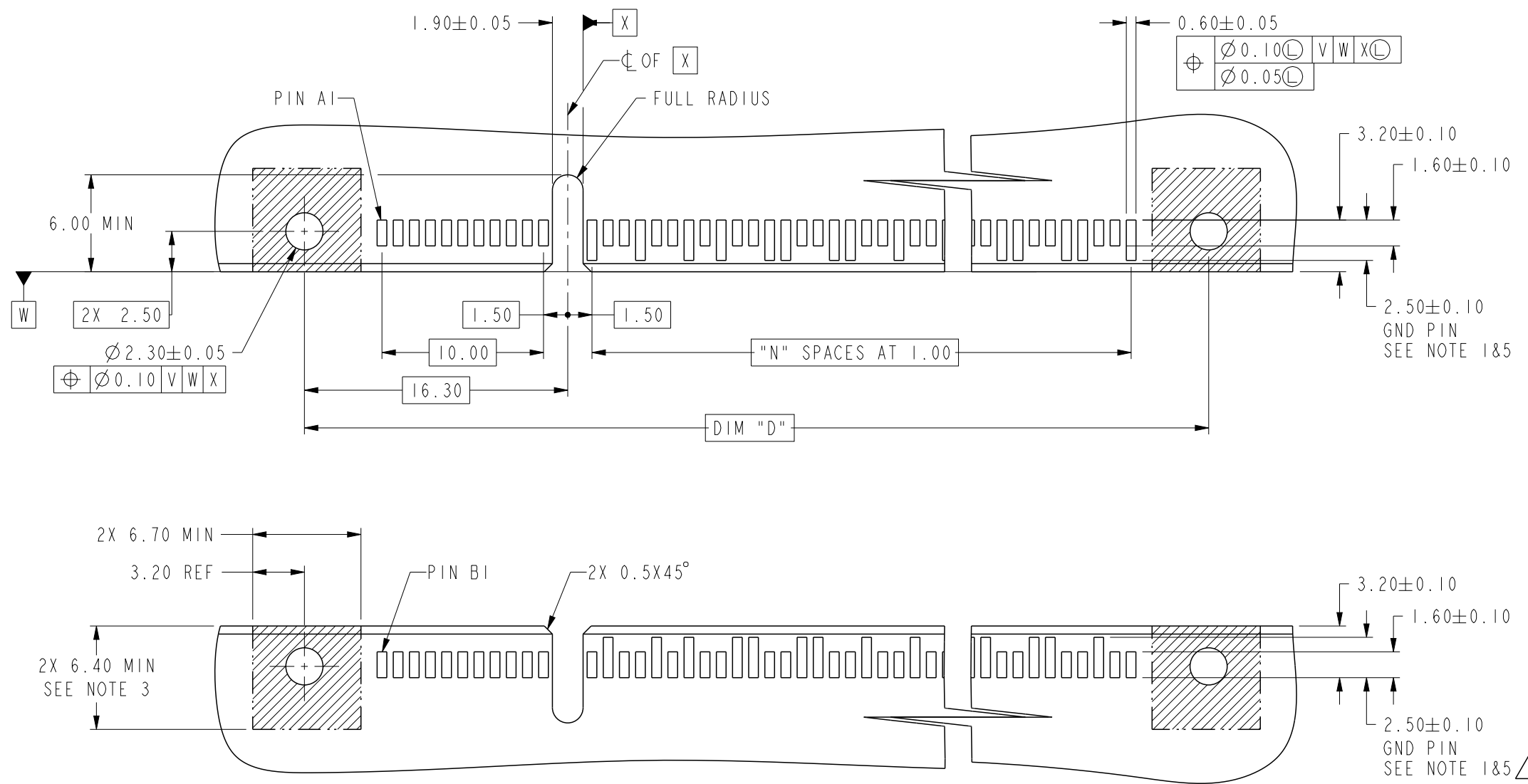
**CODICO GmbH**  
 Zwingenstraße 6-8, 2380 Perchtoldsdorf, Austria  
 Telefon: +43 1 86 305-0, Fax: +43 1 86 305-5000  
 e-mail: office@codico.com, www.codico.com  
 FN 436940i, Landesgericht Wr. Neustadt

Zertifiziert nach ISO 9001:2015



| CONNECTOR LINK WIDTH | # POS | "N" | DIM "A" | DIM "B" | DIM "C" |
|----------------------|-------|-----|---------|---------|---------|
| X1                   | 36    | 6   | 7.65    | 25.00   | 28.60   |
| X4                   | 64    | 20  | 21.65   | 39.00   | 42.60   |
| X8                   | 98    | 37  | 38.65   | 56.00   | 59.60   |
| X16                  | 164   | 70  | 71.65   | 89.00   | 92.60   |

|                                       |         |              |            |                |             |                               |              |           |             |
|---------------------------------------|---------|--------------|------------|----------------|-------------|-------------------------------|--------------|-----------|-------------|
| spec ref                              | dr      | Zhen-Hua Liu | 2022/02/23 | projection     | MM          | size                          | A3           | scale     | 3:1         |
| tolerance std                         | eng     | -            | 2022/03/21 |                |             | ecn no                        | -            | rel level | Preliminary |
| ASME Y14.5                            | chr     | -            | -          |                |             |                               |              |           |             |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |         |              |            | product family | PCI Express |                               |              |           |             |
| surface                               | linear  | 0.X          | ±.3        | Amphenol FCI   |             | PCI Express 5.0               | dwg no       |           | 10163106    |
|                                       |         | 0.XX         | ±.20       |                |             | Assembly, Straddle Mount Type | rev          |           | 1           |
|                                       |         | 0.XXX        | ±.100      |                |             |                               |              |           |             |
| ASME Y14.5                            | angular | 0°           | ±2°        | cat. no.       | -           | Product - Customer Drw        | sheet 1 of 4 |           |             |



| THE THICKNESS | DIM "A"   |
|---------------|-----------|
| 1.57mm        | 1.57±0.13 |
| 2.00mm        | 2.00±0.13 |
| 2.36mm        | 2.36±0.13 |
| 2.54mm        | 2.54±0.13 |

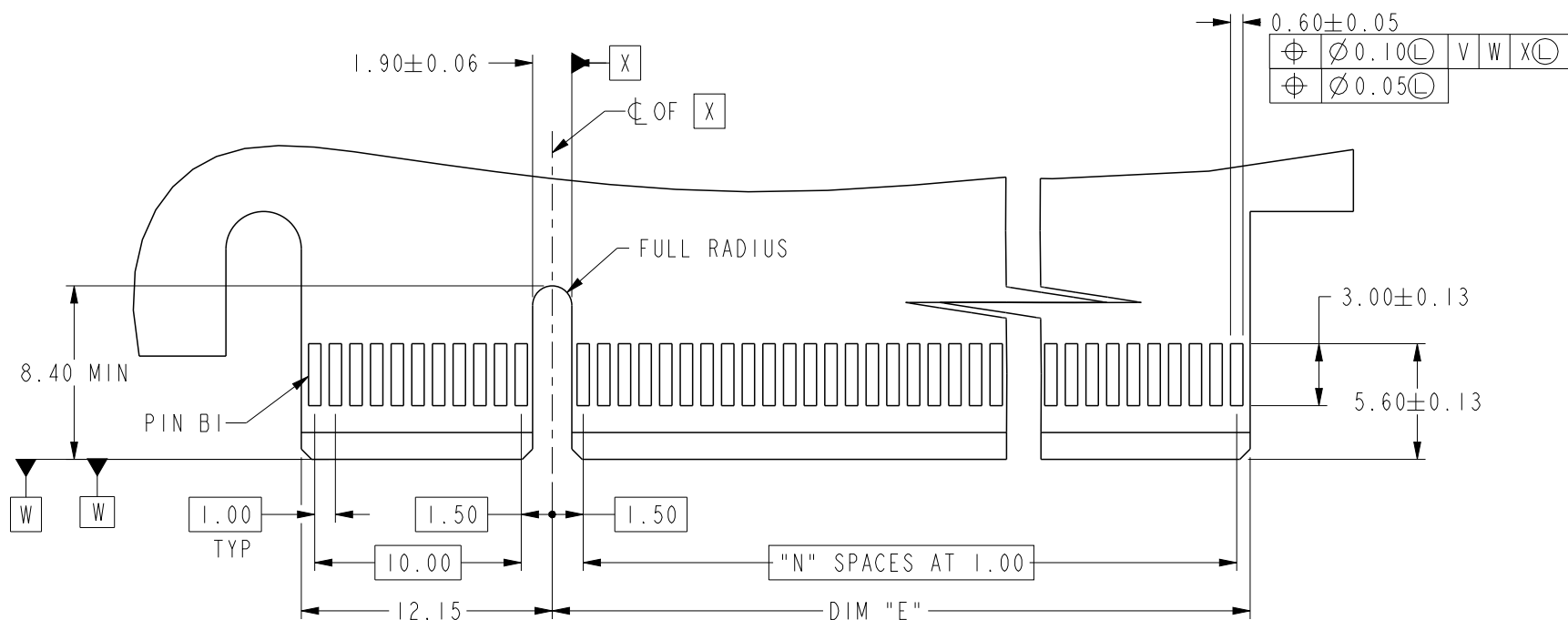
**RECOMMENDED PCB LAYOUT  
(DETAILS : SEE ROUTING GUIDELINE SPEC)**

**NOTES:**

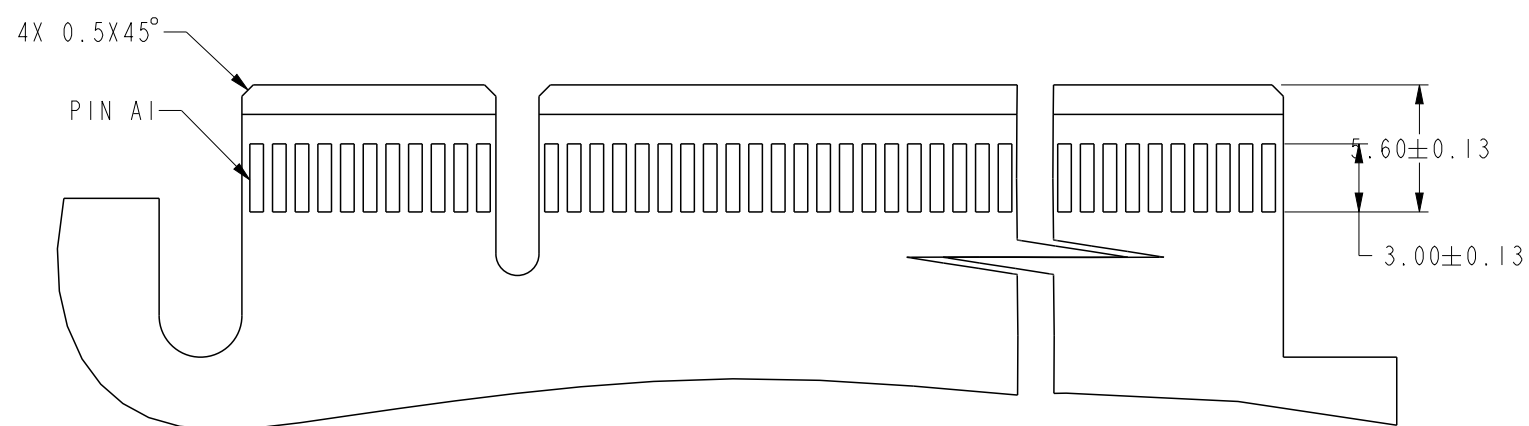
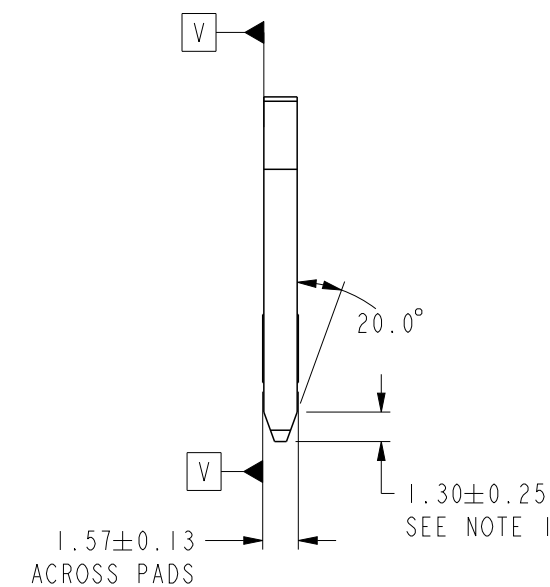
- LOCATION OF PIN "C":  
 36 POS: A12,A15,A18,  
 B13,B16,B18.  
 64 POS: A12,A15,A18,A20,A23,A24,A27,A28,A31,  
 B13,B16,B18,B21,B22,B25,B26,B29,B32.  
 98 POS: A12,A15,A18,A20,A23,A24,A27,A28,A31,A34,A37,A38,A41,A42,A45,A46,A49,  
 B13,B16,B18,B21,B22,B25,B26,B29,B32,B35,B36,B39,B40,B43,B44,B47,B49.  
 164 POS: A12,A15,A18,A20,A23,A24,A27,A28,A31,A34,A37,A38,A41,A42,A45,A46,A49,A51,A54,A55,A58,A59,A62,A63,A66,A67,A70,A71,A74,A75,A78,A79,A82,  
 B13,B16,B18,B21,B22,B25,B26,B29,B32,B35,B36,B39,B40,B43,B44,B47,B49,B52,B53,B56,B57,B60,B61,B64,B65,B68,B69,B72,B73,B76,B77,B80.
- CHAMFER EDGES MUST BE FREE FROM CUTTING BURRS.
- CONNECTOR KEEP OUT ZONE:  
 PCB COMPONENTS ARE NOT ALLOWED ON BOTH SIDES.
- TOLERANCE UNLESS OTHERWISE SPECIFIED:±0.13MM
- SEE ROUTING GUIDELINE SPEC

| CONNECTOR LINK WIDTH | # POS | "N" | DIM "D" |
|----------------------|-------|-----|---------|
| X1                   | 36    | 6   | 28.60   |
| X4                   | 64    | 20  | 42.60   |
| X8                   | 98    | 37  | 59.60   |
| X16                  | 164   | 70  | 92.60   |

|               |         |              |            |                |  |                        |              |           |             |
|---------------|---------|--------------|------------|----------------|--|------------------------|--------------|-----------|-------------|
| spec ref      | dr      | Zhen-Hua Liu | 2022/02/23 | projection     | MM   | size                   | A3           | scale     | 3:1         |
| tolerance std | eng     | -            | 2022/03/21 |                |  | ecn no                 | -            | rel level | Preliminary |
| ASME Y14.5    | chr     | -            | -          |                |  |                        |              |           |             |
|               | appr    | -            | -          | product family | PCI Express                                      | rel level              | Preliminary  |           |             |
| surface       | linear  | 0.X          | ±.3        |                | PCI Express 5.0<br>Assembly, Straddle Mount Type | dwg no<br>10163106     | rev<br>1     |           |             |
|               |         | 0.XX         | ±.20       |                |  |                        |              |           |             |
|               |         | 0.XXX        | ±.100      |                |  |                        |              |           |             |
| ASME Y14.5    | angular | 0°           | ±2°        | cat. no.       | -  | Product - Customer Drw | sheet 2 of 4 |           |             |



ADD-IN CARD EDGE-FINGER DIMENSIONS  
PRIMARY (COMPONENT) SIDE



ADD-IN CARD EDGE-FINGER DIMENSIONS  
SENCONDARY (SOLDER) SIDE

NOTES:

1. CHAMFER EDGES MUST BE FREE FROM CUTTING BURRS.
2. PCIe CEM 5.0 HAS NOT BEEN FINALIZED AND PUBLISHED. ADD-IN CARD DEFINITION IN THE DRAWING IS JUST FOR REFERENCE, IT IS SUBJECTED TO CHANGE WHEN CEM 5.0 UPDATE.
3. TOLERANCE UNLESS OTHERWISE SPECIFIED: ±0.13MM

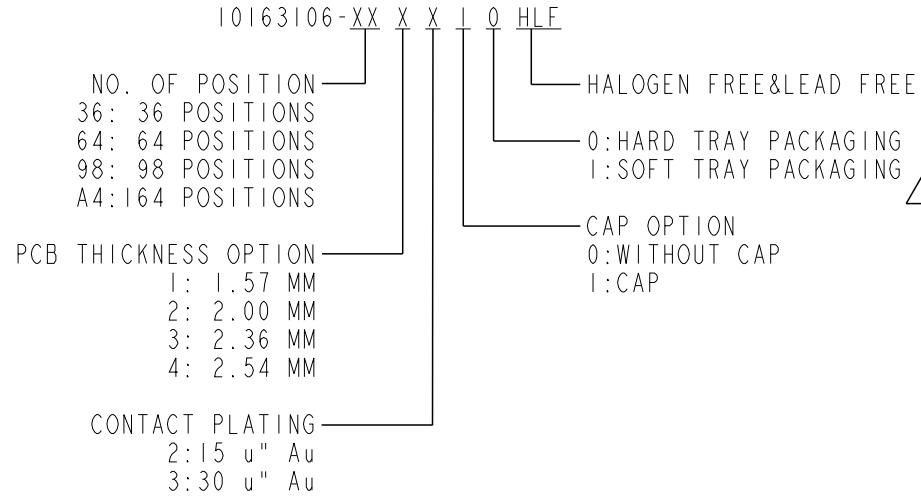
| CONNECTOR LINK WIDTH | # POS | "N" | DIM "E" |
|----------------------|-------|-----|---------|
| X1                   | 36    | 6   | 8.15    |
| X4                   | 64    | 20  | 22.15   |
| X8                   | 98    | 37  | 39.15   |
| X16                  | 164   | 70  | 72.15   |

|               |         |              |            |                     |  |                        |              |           |             |
|---------------|---------|--------------|------------|---------------------|--|------------------------|--------------|-----------|-------------|
| spec ref      | dr      | Zhen-Hua Liu | 2022/02/23 | projection          | MM   | size                   | A3           | scale     | 3:1         |
| tolerance std | eng     | -            | 2022/03/21 |                     |  | ecn no                 | -            | rel level | Preliminary |
| ASME Y14.5    | chr     | -            | -          |                     |  |                        |              |           |             |
|               | appr    | -            | -          | product family      | PCI Express                                      |                        |              |           |             |
| surface       | linear  | 0.X          | ±.3        | <b>Amphenol FCI</b> | PCI Express 5.0<br>Assembly, Straddle Mount Type | dwg no<br>10163106     | rev<br>1     |           |             |
|               |         | 0.XX         | ±.20       |                     |  |                        |              |           |             |
|               |         | 0.XXX        | ±.100      |                     |  |                        |              |           |             |
| ASME Y14.5    | angular | 0°           | ±2°        | cat. no.            | -  | Product - Customer Drw | sheet 3 of 4 |           |             |

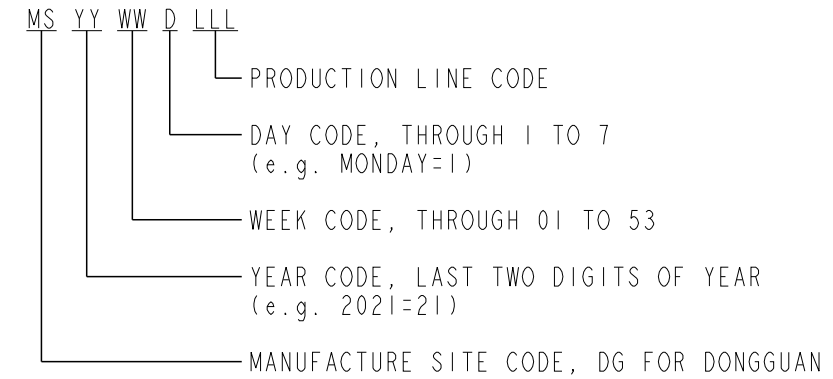
NOTES:

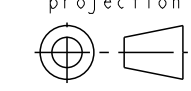
1. MATERIAL:  
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0.  
CAP: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0.  
CONTACT: COPPER ALLOY.
2. PLATING:  
MATING AREA: GOLD OVER NICKEL (SEE PART NUMBER CODE).  
SOLDER AREA: TIN OVER NICKEL (LEAD FREE).
3. PRODUCT SPECIFICATION: GS-12-1193.
4. PACKAGE SPECIFICATION: GS-14-XXXX.
5. PACKAGING MEETS GS-14-920 LEAD FREE LABELING SPECIFICATION.
6. PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- ⑦ PRODUCT MARKING (PART NUMBER, DATE CODE OR PROTOTYPE) TO BE LASER MARKED ON THIS SURFACE.
- ⑧ TWO M2 SCREWS WITH A MINIMUM LENGTH OF 8.0MM AND TWO HEX NUTS ARE RECOMMENDED TO BE USED TO ATTACH THE CONNECTOR TO THE PCB. SCREWS AND NUTS ARE NOT PROVIDED WITH CONNECTOR.
- ⑨ ALL DIFFERENTIAL PAIR GROUNDS ON SAME SIDE ARE CONNECTED BY GROUND BUSSING WITHIN CONNECTOR. FOR THE LOCATION OF GROUNDS, PLEASE REFER TO THE PINOUT OF PCI EXPRESS CARD ELECTROMECHANICAL SPECIFICATION.
- ⑩ THE CAP SHOULD BE ASSEMBLED DURING REFLOW PROCESS.
11. THE PRODUCT WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

**PART NUMBER CODE:**



**DATE CODE:**



|                                       |            |      |              |                     |   |     |                        |             |              |     |
|---------------------------------------|------------|------|--------------|---------------------|---|-----|------------------------|-------------|--------------|-----|
| spec ref                              |            | dr   | Zhen-Hua Liu | 2022/02/23          | projection  | MM  | size                   | A3          | scale        | 3:1 |
| tolerance std                         | ASME Y14.5 | eng  | -            | 2022/03/21          |  | ← → | ecn no                 |             | -            |     |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |            | chr  | -            | -                   |   |     | product family         | PCI Express | rel level    |     |
| surface                               | linear     | 0.X  | ±.3          | <b>Amphenol FCI</b> | PCI Express 5.0   |     | dwg no                 | 10163106    |              | rev |
|                                       |            | 0.XX | ±.20         |                     | Assembly, Straddle Mount Type   |     |                        | 1           |              |     |
| ASME Y14.5                            | angular    | 0°   | ±2°          |                     | cat. no.  | -   | Product - Customer Drw |             | sheet 4 of 4 |     |