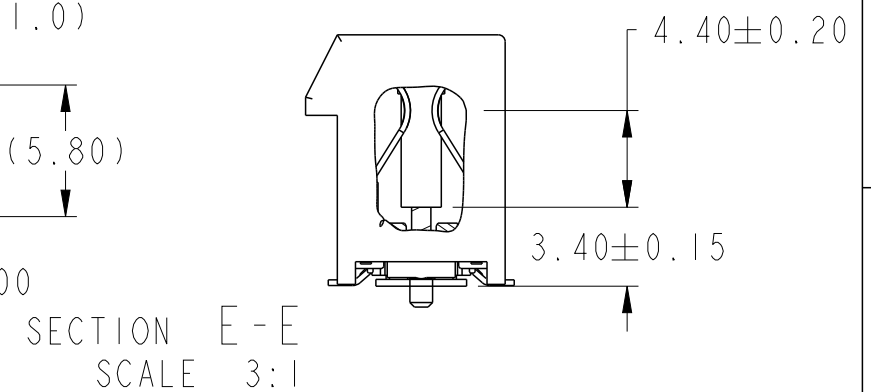
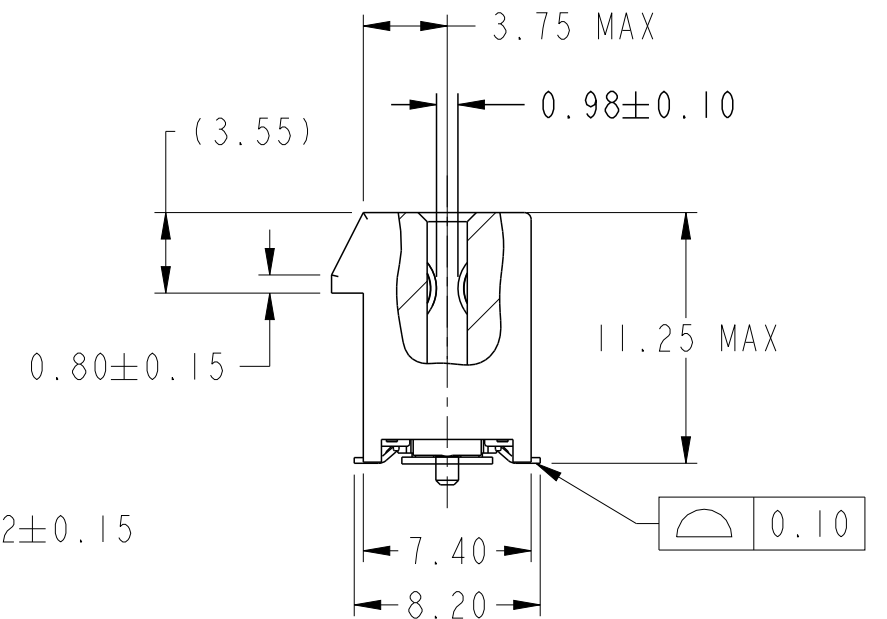
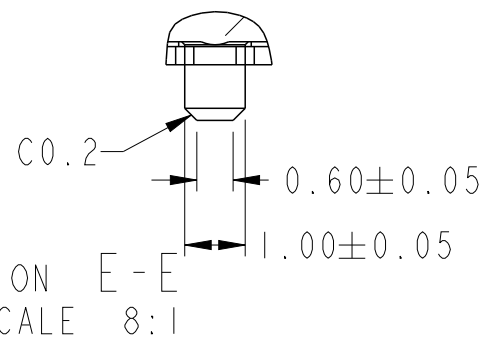
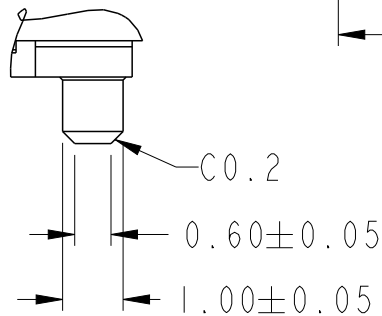
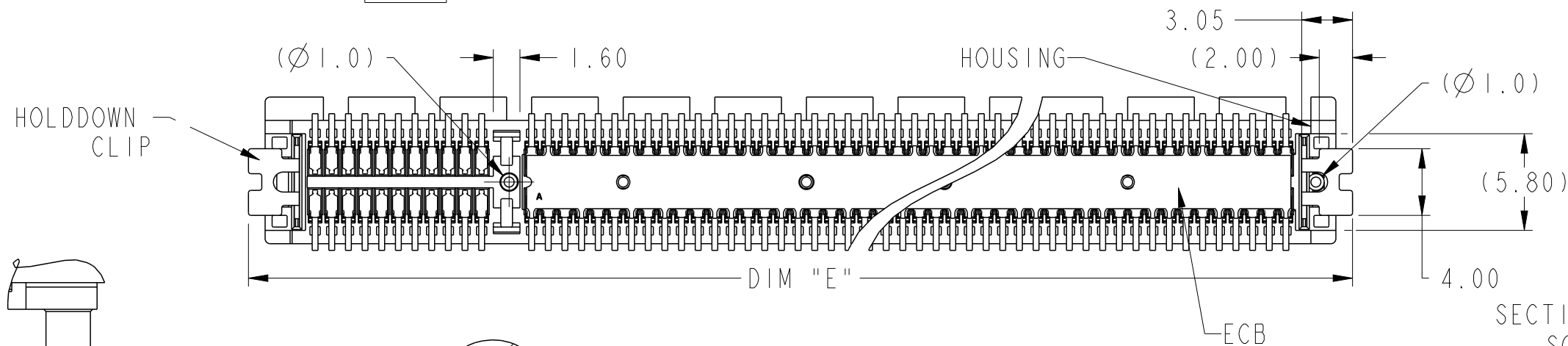
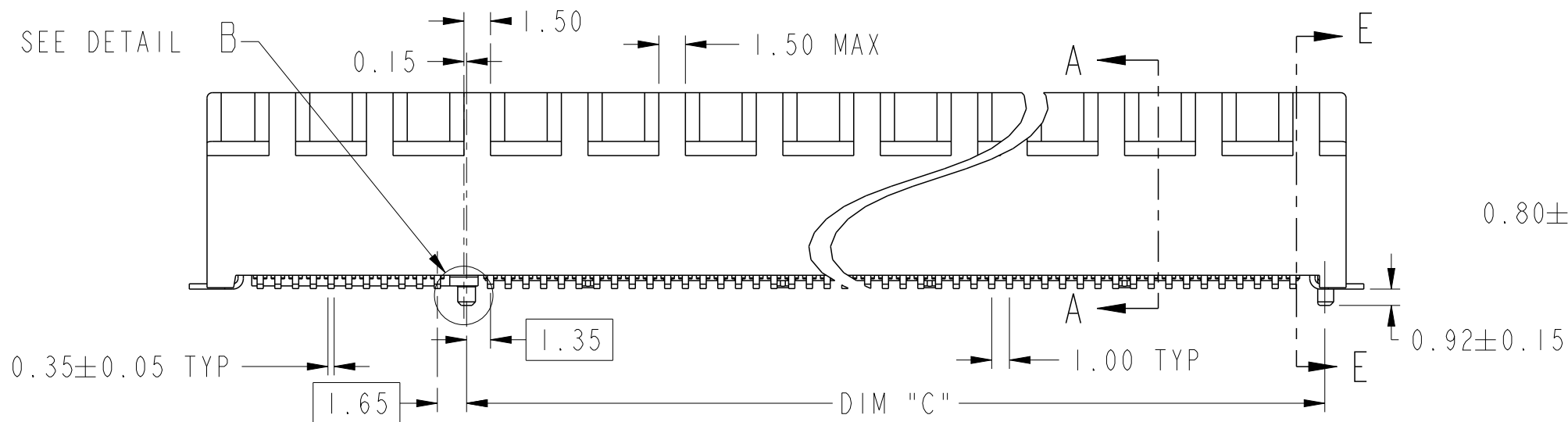
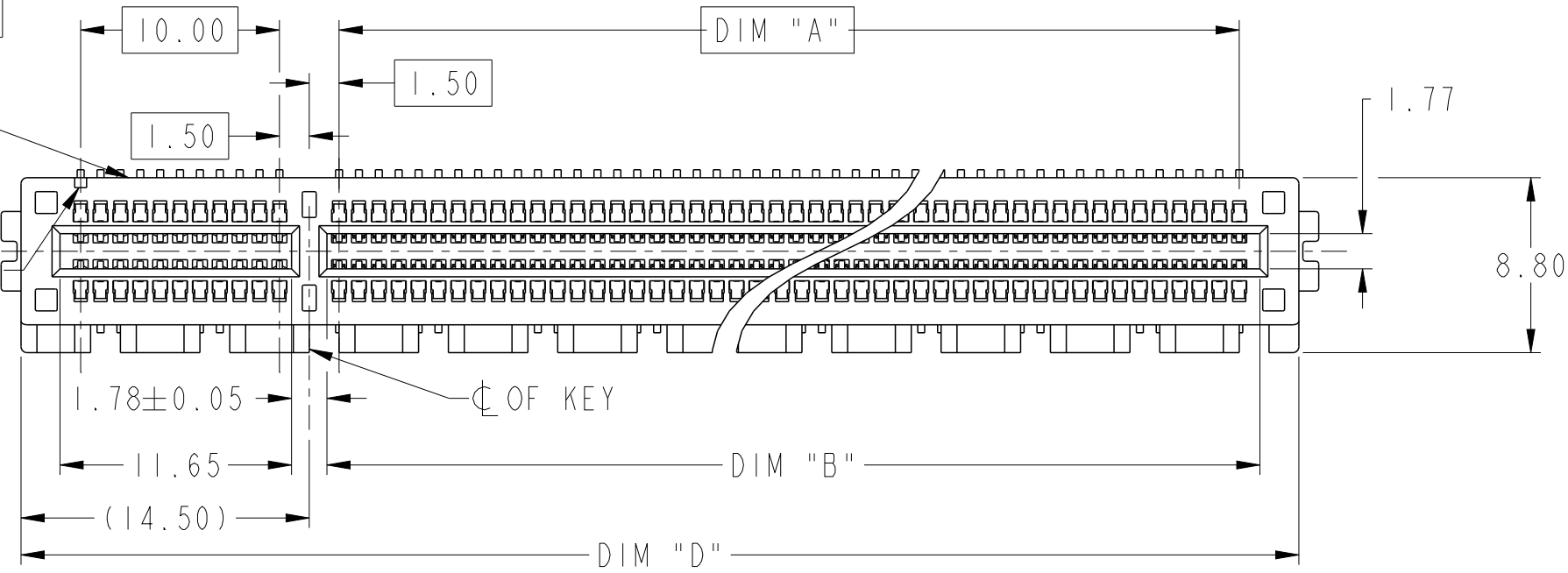


PRODUCT PARTNUMBER  
10146070-1XXXXLF

PARTNO &  
DATECODE

#AI IDENTIFIER



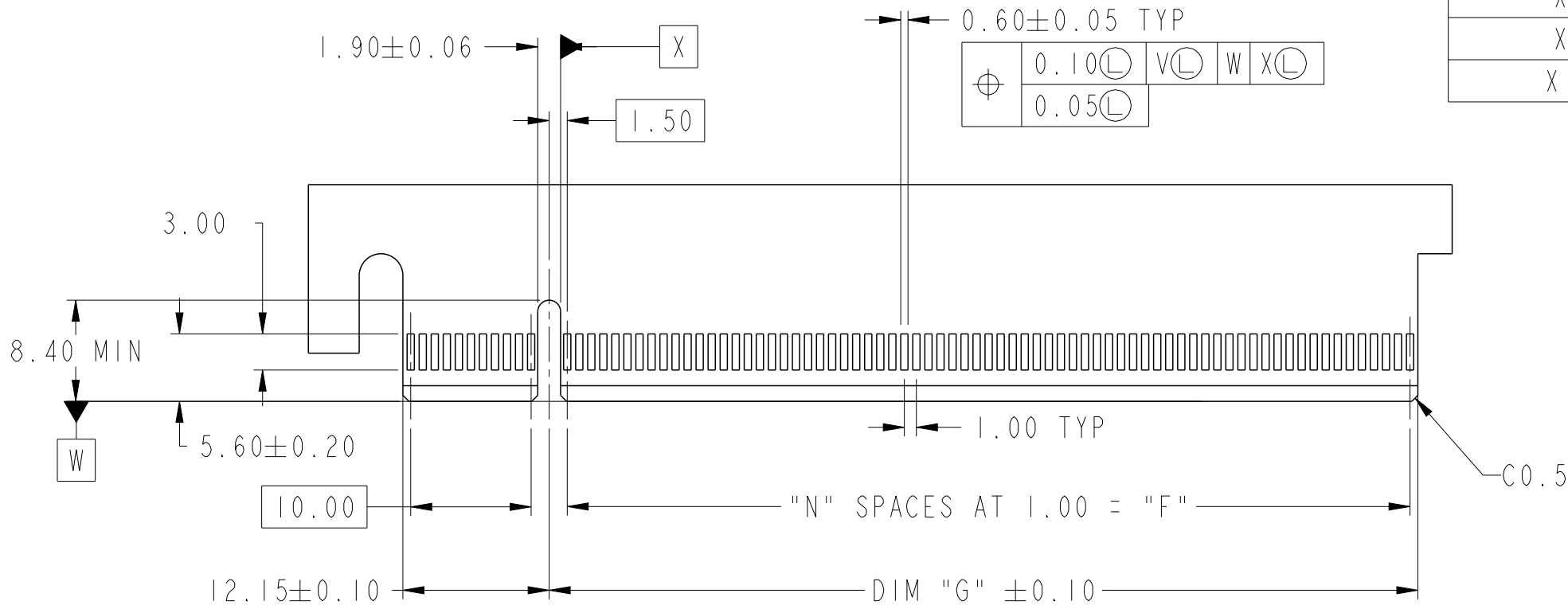
|               |                                       |                 |                            |            |                |             |           |                        |              |          |
|---------------|---------------------------------------|-----------------|----------------------------|------------|----------------|-------------|-----------|------------------------|--------------|----------|
| spec ref      | -                                     | dr              | Cheong, Matthe             | 2018/01/09 | projection     | MM          | size      | A3                     | scale        | 3:1      |
| tolerance std | ISO 406<br>ISO 1101                   | eng             | Cheong, Matthe             | 2020/12/07 | chr            | -           | ecn no    | ELX-S-39228-1          | rel level    | Released |
| surface       | -                                     | appr            | Koon-Poh Tay               | 2020/12/17 | product family | PCI express | rel level | Released               | rev          | E        |
| linear        | 0.X ±0.30<br>0.XX ±0.20<br>0.XXX ±0.1 | Amphenol<br>FCi | PCI Express Gen 5 (32Gb/s) | dwg no     | 10146070       | cat. no.    | -         | Product - Customer Drw | sheet 1 of 5 |          |
| angular       | 0° ±2°                                | www.fci.com     | SMT Type                   |            |                |             |           |                        |              |          |

A

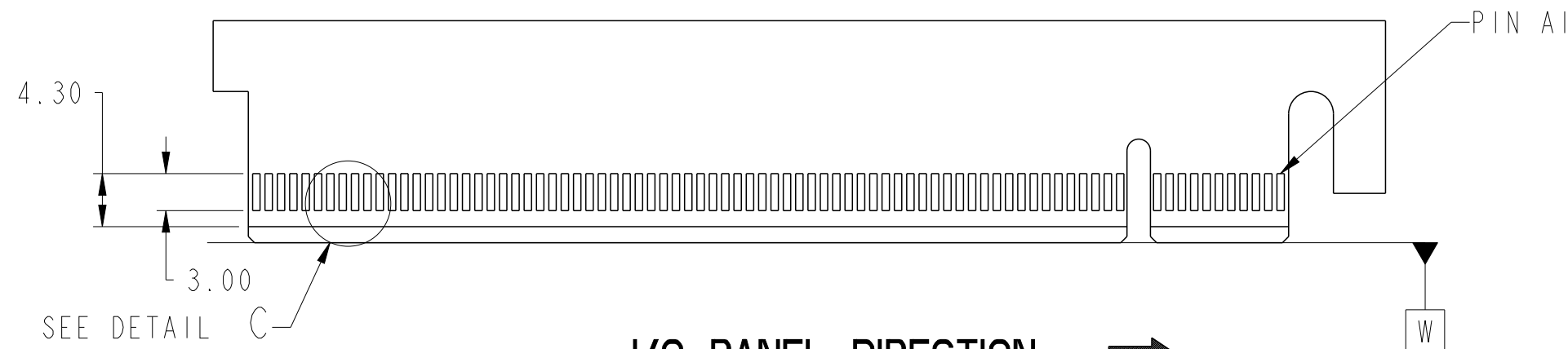
B

C

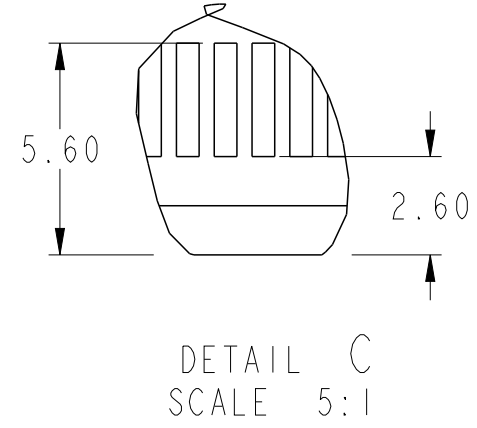
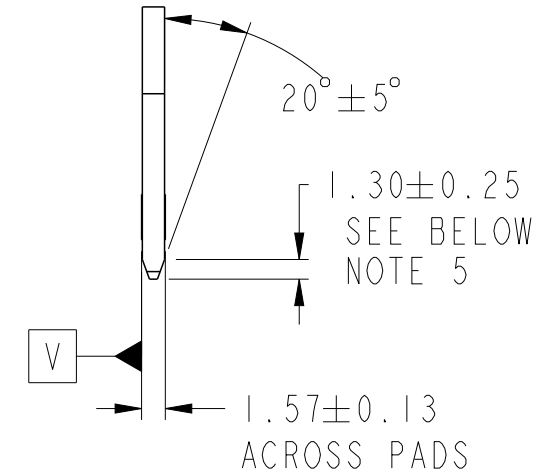
D



← I/O PANEL DIRECTION  
PRIMARY (COMPONENT) SIDE

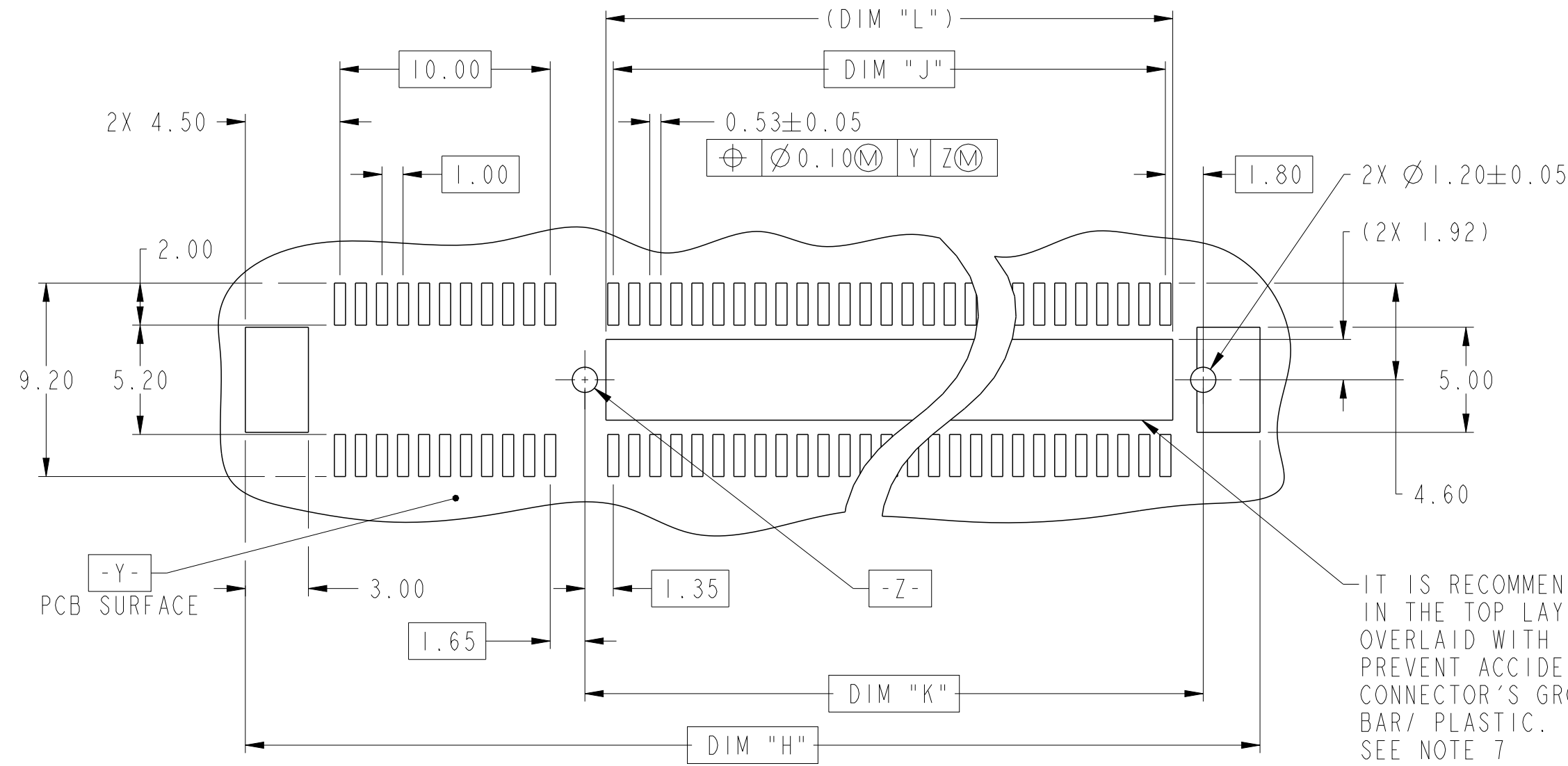


I/O PANEL DIRECTION  
SECONDARY (SOLDER) SIDE →



1. NO TIE BAR PERMITTED FROM CARD EDGE TO LEADING EDGE OF PAD FOR PIN A1 AND PIN "L".
2. CHAMFER EDGES MUST BE FREE FROM CUTTING BURRS.
3. TOLERANCES : ±0.13.
4. CONTACT APCI ENGINEERING FOR SI REPORT.
5. ADD-IN-CARD GOLD FINGER DESIGN REFERENCED CEM REV 5.0 VER 0.7 JUNE 29, 2020.

|               |                     |      |                |              |                            |             |          |                        |              |          |
|---------------|---------------------|------|----------------|--------------|----------------------------|-------------|----------|------------------------|--------------|----------|
| spec ref      | -                   | dr   | Cheong, Matthe | 2018/01/09   | projection                 | MM          | size     | A3                     | scale        | 2:1      |
| tolerance std | ISO 406<br>ISO 1101 | eng  | Cheong, Matthe | 2020/12/07   | chr                        | -           | ecn no   | ELX-S-39228-1          | rel level    | Released |
| surface       | linear              | appr | Koon-Poh Tay   | 2020/12/17   | product family             | PCI express | dwg no   | 10146070               | rev          | E        |
| ISO 1302      | angular             | 0°   | ±2°            | Amphenol FCI | PCI Express Gen 5 (32Gb/s) | SMT Type    | cat. no. | Product - Customer Drw | sheet 2 of 5 |          |



RECOMMENDED PCB LAYOUT, PAD TYPE

| DIMENSIONS |       |                                     |         |         |         |         |       |         |       |
|------------|-------|-------------------------------------|---------|---------|---------|---------|-------|---------|-------|
| POSITION   | A     | B <sup>+0.15</sup> <sub>-0.05</sub> | C ±0.10 | D ±0.23 | E ±0.20 | H ±0.10 | J     | K ±0.10 | L     |
| 36         | 6.00  | 7.65                                | 9.15    | 25.00   | 27.00   | 28.00   | 6.00  | 9.15    | 6.70  |
| 64         | 20.00 | 21.65                               | 23.15   | 39.00   | 41.00   | 42.00   | 20.00 | 23.15   | 20.70 |
| 98         | 37.00 | 38.65                               | 40.15   | 56.00   | 58.00   | 59.00   | 37.00 | 40.15   | 37.70 |
| 164        | 70.00 | 71.65                               | 73.15   | 89.00   | 91.00   | 92.00   | 70.00 | 73.15   | 70.70 |

|                                                                                                                   |                                       |         |       |                 |                |                            |                                                                                                     |                                                                                             |             |        |               |              |     |   |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------|-------|-----------------|----------------|----------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------|--------|---------------|--------------|-----|---|
| spec ref                                                                                                          |                                       | -       |       | dr              | Cheong, Matthe | 2018/01/09                 | projection<br> | MM<br> | size        | A3     | scale         | 4:1          |     |   |
| tolerance std                                                                                                     | TOLERANCES UNLESS OTHERWISE SPECIFIED |         |       | eng             | Cheong, Matthe | 2020/12/07                 |                                                                                                     |                                                                                             | ecn no      |        | ELX-S-39228-1 |              |     |   |
| ISO 406<br>ISO 1101                                                                                               |                                       |         |       | chr             | -              | -                          |                                                                                                     |                                                                                             | rel level   |        | Released      |              |     |   |
|                                                                                                                   |                                       |         |       | appr            | Koon-Poh Tay   | 2020/12/17                 | product family                                                                                      |                                                                                             | PCI express |        |               |              |     |   |
| surface<br>-<br><br>ISO 1302 | linear                                | 0.X     | ±0.30 | Amphenol<br>FCi | title          | PCI Express Gen 5 (32Gb/s) |                                                                                                     |                                                                                             |             | dwg no | 10146070      |              | rev | E |
|                                                                                                                   |                                       | 0.XX    | ±0.20 |                 |                |                            |                                                                                                     |                                                                                             |             |        |               |              |     |   |
|                                                                                                                   |                                       | 0.XXX   | ±0.1  |                 |                |                            |                                                                                                     |                                                                                             |             |        |               |              |     |   |
|                                                                                                                   |                                       | angular | 0°    | ±2°             | www.fci.com    | cat. no.                   | -                                                                                                   | Product - Customer Drw                                                                      |             |        |               | sheet 3 of 5 |     |   |

PRODUCT NUMBER CODE  
TABLE 1 - PARTNUMBER FORMAT ALLOCATED TO PACKAGING "A, Q, C, T, X, Y, Z"

10146070-□□□□0LF

HOUSING COLOR

1: BLACK

CONTACT AREA PLATING

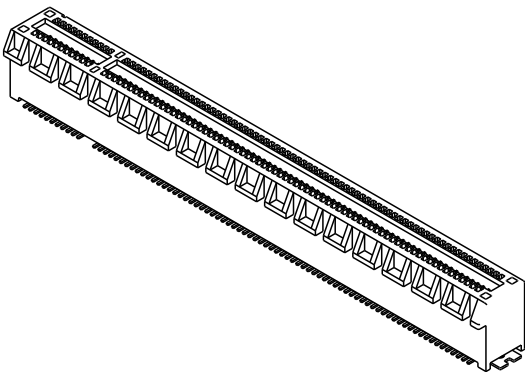
1: 30u" Au  
2: 15u" Au

NO. OF POSITION

0: 36 POSITIONS  
1: 64 POSITIONS  
2: 98 POSITIONS  
3: 164 POSITIONS

PACKAGING OPTIONS

A: HARD TRAY (DIM: 323 x 136 x 19) WITH KAPTON TAPE, 22 x 7MM (98 & 164 POS)  
B: HARD TRAY (DIM: 323 x 136 x 19) WITH KAPTON TAPE, 86.5 x 7 MM (164 POS)  
E: HARD TRAY (DIM: 323 x 136 x 19) WITH KAPTON TAPE, 53 x 7 MM (98 & 164 POS)  
Q: HARD TRAY (DIM: 323 x 136 x 19) (98 & 164 POS)  
C: SOFT TRAY (317.5 x 235 x 18) WITH PICK-UP CAP (36 & 64 POS)  
T: SOFT TRAY (317.5 x 235 x 18) WITH KAPTON TAPE, 22 x 7MM (36 & 64 POS)  
X: HARD TRAY (DIM: 330 x 235 x 19.3) WITH PICK UP CAP (98 & 164 POS)  
Y: HARD TRAY (DIM: 330 x 235 x 19.3) WITH KAPTON TAPE, 22 x 7MM (98 & 164 POS)  
Z: HARD TRAY (DIM: 330 x 235 x 19.3) WITH KAPTON TAPE, 86.5 x 7MM (164 POS)



PRODUCT NUMBER CODE  
TABLE 2 - PARTNUMBER FORMAT ALLOCATED TO "TAPE & REEL" PACKAGING OPTIONS

10146070-□□□□□00LF



HOUSING COLOR

1: BLACK

CONTACT AREA PLATING

1: 30u" Au  
2: 15u" Au

NO. OF POSITION

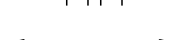
0: 36 POSITIONS  
1: 64 POSITIONS  
2: 98 POSITIONS  
3: 164 POSITIONS

PICK-UP OPTIONS

0: NIL  
1: PICK UP CAP ( NOT AVAIL. FOR PACKAGING OPTION "Q")  
2: KAPTON TAPE, 22 x 7MM WIDTH (ALL POS)  
3: KAPTON TAPE, 22 x 8.5MM WIDTH (ALL POS)  
4: KAPTON TAPE, 30 x 8.5MM WIDTH (64, 98 & 164 POS)  
5: KAPTON TAPE, 45 x 8.5MM WIDTH (98 & 164 POS)  
6: KAPTON TAPE, 53 x 8.5MM WIDTH (98 & 164 POS)  
7: KAPTON TAPE, 86.5 x 8.5MM WIDTH (164 POS)

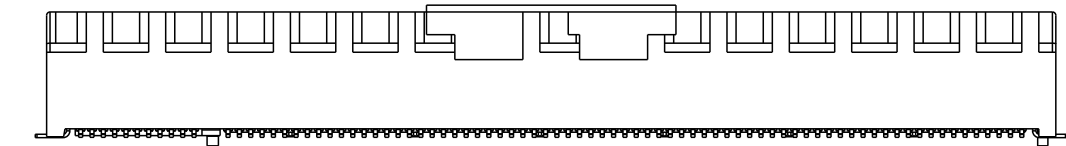
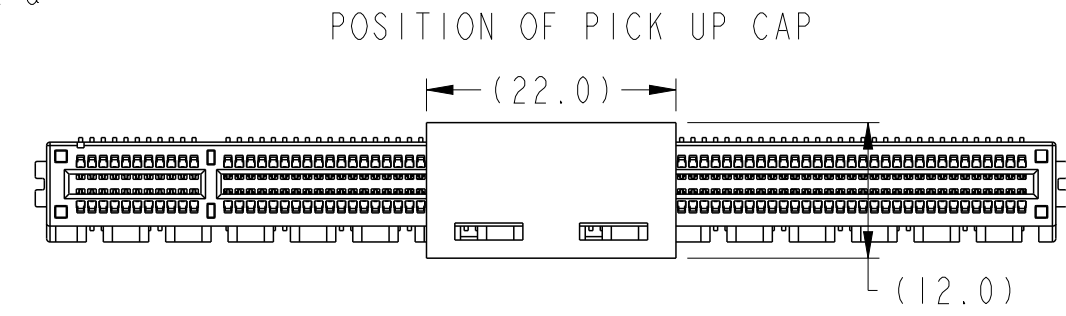
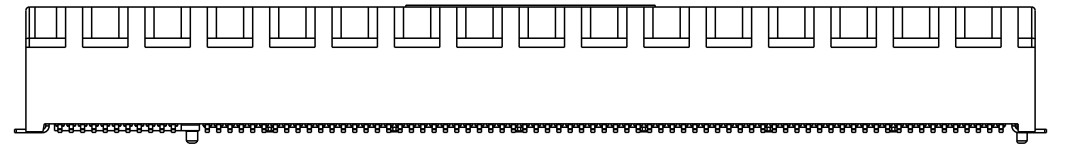
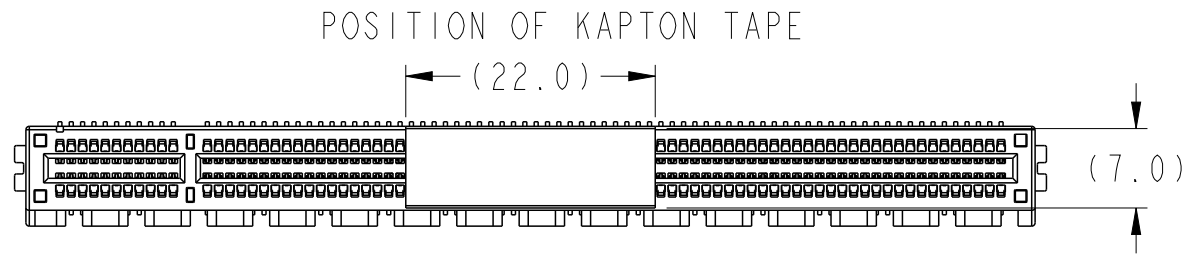
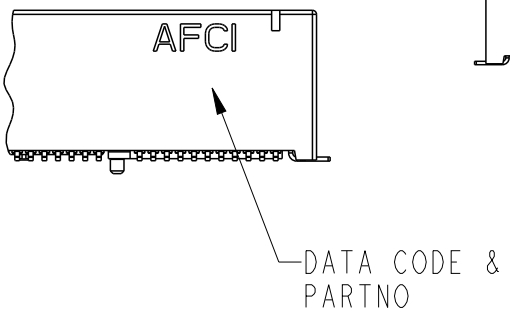
PACKAGING OPTIONS

R: TAPE AND REEL (36, 64 & 98 POS)  
Q: HARD TRAY (323 x 136 x 19) (98 & 164 POS)

|                                                                                                              |                                       |       |       |              |                |                                        |                                                                                                     |                                                                                             |                    |               |              |          |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------|-------|-------|--------------|----------------|----------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|---------------|--------------|----------|
| spec ref -                                                                                                   |                                       |       |       | dr           | Cheong, Matthe | 2018/01/09                             | projection<br> | MM<br> | size               | A3            | scale        | 3:1      |
| tolerance std                                                                                                | TOLERANCES UNLESS OTHERWISE SPECIFIED |       |       | eng          | Cheong, Matthe | 2020/12/07                             |                                                                                                     |                                                                                             | ecn no             | ELX-S-39228-1 |              |          |
| ISO 406<br>ISO 1101                                                                                          |                                       |       |       | chr          | -              | -                                      |                                                                                                     |                                                                                             | rel level Released |               |              |          |
|                                                                                                              |                                       |       |       | appr         | Koon-Poh Tay   | 2020/12/17                             | product family PCI express                                                                          |                                                                                             |                    |               |              |          |
| surface<br><br>ISO 1302 | linear                                | 0.X   | ±0.30 | Amphenol FCI | title          | PCI Express Gen 5 (32Gb/s)<br>SMT Type |                                                                                                     |                                                                                             | dwg no             | 10146070      |              | rev<br>E |
|                                                                                                              |                                       | 0.XX  | ±0.20 |              |                |                                        |                                                                                                     |                                                                                             |                    |               |              |          |
|                                                                                                              |                                       | 0.XXX | ±0.1  |              |                |                                        |                                                                                                     |                                                                                             |                    |               |              |          |
|                                                                                                              |                                       |       |       |              |                | cat. no.                               | -                                                                                                   | Product - Customer Drw                                                                      |                    |               | sheet 4 of 5 |          |
|                                                                                                              |                                       |       |       |              |                |                                        |                                                                                                     |                                                                                             |                    |               |              |          |

NOTES:

1. MATERIAL:  
HOUSING: HIGH PERFORMANCE RESIN, GLASS FILLED, UL 94V-0  
CONTACT: COPPER ALLOY.  
HOLDDOWN CLIP: COPPER ALLOY
2. PLATING:  
CONTACT: UNDERPLATE: 50u" NICKEL OVER ALL.  
SOLDER AREA: 100u" TIN (LEAD FREE).  
MATING AREA: SEE PRODUCT NUMBER CODE.  
HOLDDOWN CLIP: 100u" TIN OVER 50 u" NICKEL.
3. PRODUCT SPECIFICATION: GS-12-1406
4. PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND  
OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-004.
5. DATE CODE "MMDDYYL", MMDDYY IS ASSEMBLY DATE.  
L IS AFCI PRODUCTION SITE.
6. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°  
PEAK TEMPERATURE FOR 10 SECONDS IN A  
CONVECTION, INFRA-RED OR VAPOR PHASE  
REFLOW OVEN.
7. THERE IS GROUND BUSSING WITHIN THE CONNECTOR SYSTEM.  
FOR DIFFERENTIAL PAIR'S GROUND LOCATION, PLEASE REFER TO THE  
CONNECTOR PINOUT TABLE FROM  
CHAPTER 6 OF PCI EXPRESS CARD  
ELECTROMECHANICAL SPECIFICATION.



|               |                                                                                       |         |       |       |                 |                                  |            |                |                                                                                       |        |                                                                                       |              |               |           |          |  |  |
|---------------|---------------------------------------------------------------------------------------|---------|-------|-------|-----------------|----------------------------------|------------|----------------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|--------------|---------------|-----------|----------|--|--|
| spec ref      |                                                                                       | -       |       | dr    |                 | Cheong, Matthe                   | 2018/01/09 | projection     |  | MM     |  | size         | A3            | scale     | 2:1      |  |  |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                 |         |       | eng   |                 | Cheong, Matthe                   | 2020/12/07 |                |                                                                                       |        |                                                                                       | ecn no       | ELX-S-39228-1 |           |          |  |  |
|               |                                                                                       |         |       | chr   |                 | -                                | -          |                |                                                                                       |        |                                                                                       |              |               |           |          |  |  |
| ISO 406       |                                                                                       |         |       | appr  |                 | Koon-Poh Tay                     | 2020/12/17 | product family |                                                                                       |        | PCI express                                                                           |              |               | rel level | Released |  |  |
| ISO 1101      |                                                                                       |         |       |       |                 |                                  |            |                |                                                                                       |        |                                                                                       |              |               |           |          |  |  |
| surface       |  | linear  | 0.X   | ±0.30 | Amphenol<br>FCi | title PCI Express Gen 5 (32Gb/s) |            |                |                                                                                       | dwg no | 10146070                                                                              |              |               | rev       | E        |  |  |
|               |                                                                                       |         | 0.XX  | ±0.20 |                 |                                  |            |                |                                                                                       |        |                                                                                       |              |               |           |          |  |  |
|               |                                                                                       |         | 0.XXX | ±0.1  |                 |                                  |            |                |                                                                                       |        |                                                                                       |              |               |           |          |  |  |
|               | ISO 1302                                                                              | angular | 0°    | ±2°   | www.fci.com     | cat. no.                         |            |                | Product - Customer Drw                                                                |        |                                                                                       | sheet 5 of 5 |               |           |          |  |  |