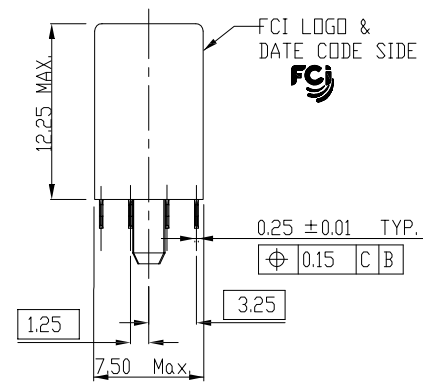
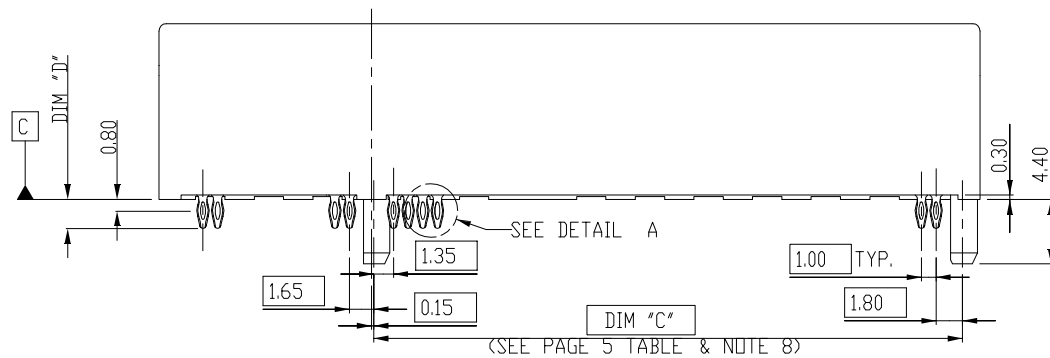
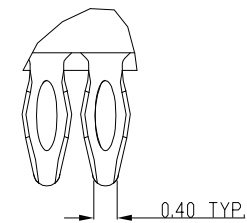
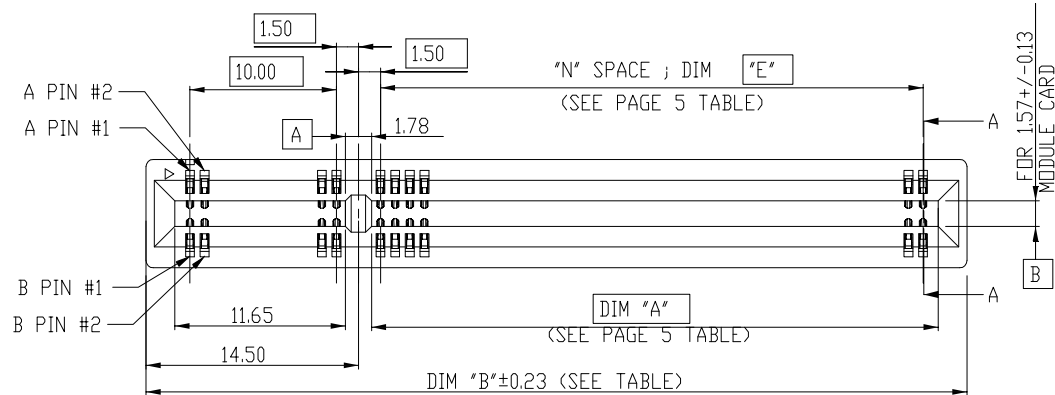
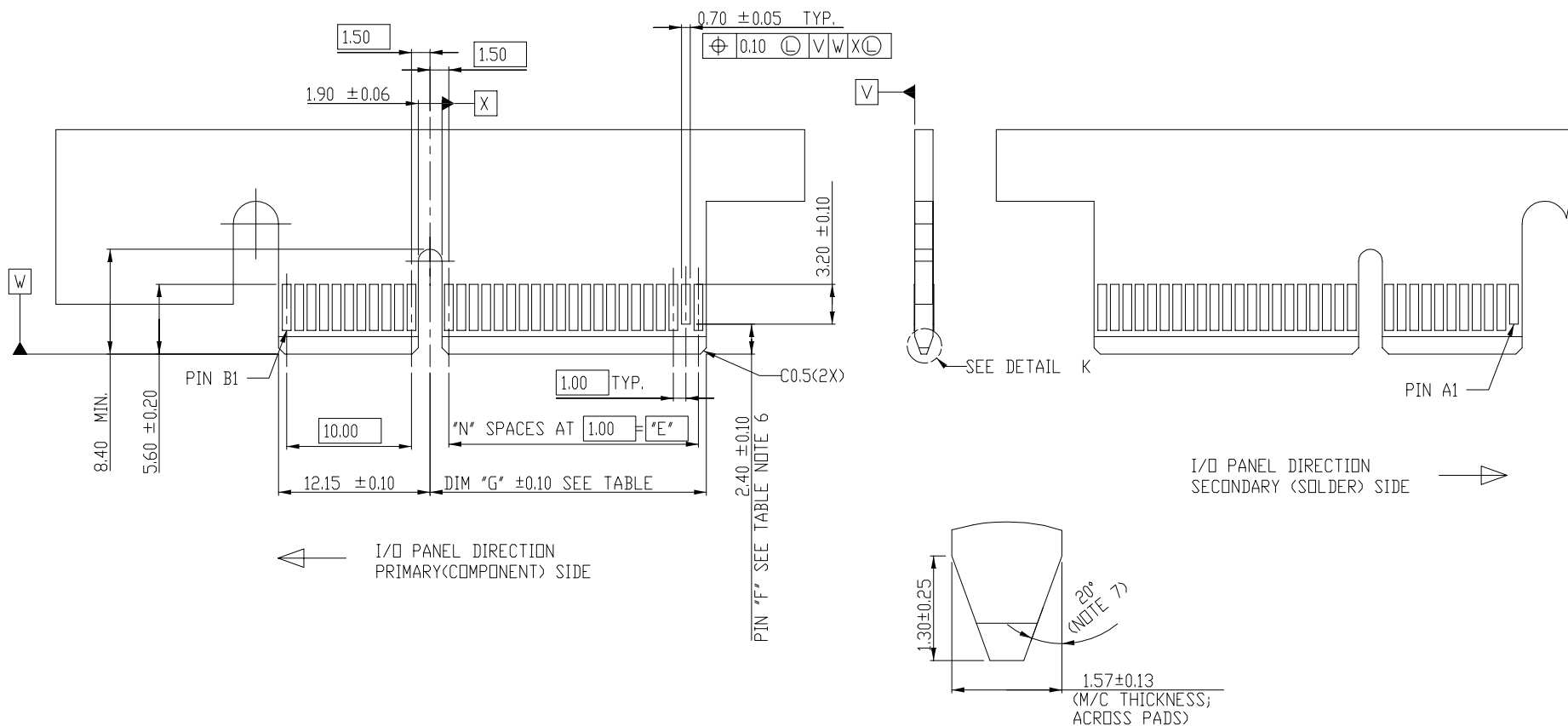


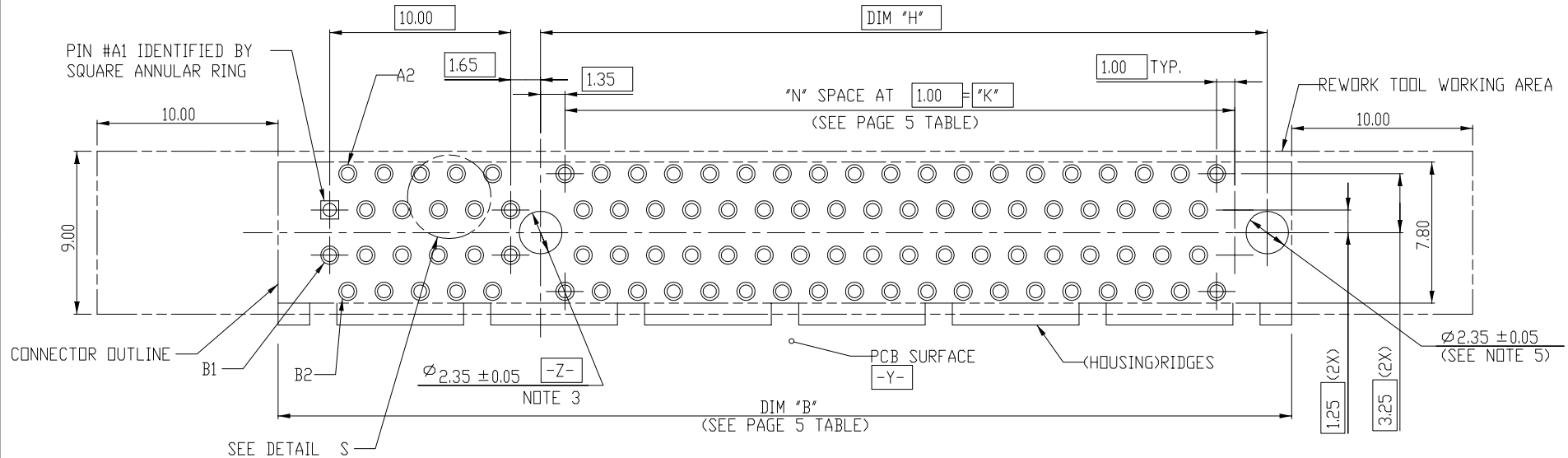
| rev | ecn no         | dr | date       |
|-----|----------------|----|------------|
| A   | T09-1074       | RC | 05/19/2009 |
| B   | T09-1112       | RC | 09/02/2009 |
| C   | T09-1159       | RC | 12/16/2009 |
| D   | DG-008068      | HT | 11/22/2011 |
| E   | ELX-DG-21161-1 | ST | 05/27/16   |
| -   | -              | -  | -          |
| -   | -              | -  | -          |

|                                                                                       |   |          |          |                                                                                                                                               |        |               |                    |                                                                                                  |           |                                                                                          |       |
|---------------------------------------------------------------------------------------|---|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------|--------------------|--------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------|-------|
| www.fciconnect.com                                                                    |   |          |          | surface                                                  |        | tolerance std |                    | projection  |           | MM  |       |
|                                                                                       |   |          |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                                                         |        |               |                    |                                                                                                  |           |                                                                                          |       |
| Dr                                                                                    | P | STONE LI | 05/27/15 | ANGULAR                                                                                                                                       | LINEAR | 0.X           | ±0.25              | size                                                                                             | A4        | Scale                                                                                    | 1,000 |
| Eng                                                                                   | P | STONE LI | 05/27/15 |                                                                                                                                               |        | 0.XX          | ±0.15              |                                                                                                  |           |                                                                                          |       |
| Chr                                                                                   | P | /        | /        | 0°                                                                                                                                            | ±5°    | 0.XXX         | ±0.10              | ECN ELX-DG-21161-1                                                                               |           |                                                                                          |       |
| Appr                                                                                  | J | PM ZHENG | 05/27/15 | Product family                                                                                                                                |        |               |                    |                                                                                                  | Spec ref  |                                                                                          |       |
|  |   |          |          | title<br>PCIE GEN3 <br>EXPRESS MODULE PRESS-FIT ASSEMBLY |        |               | dwg no<br>10092852 |                                                                                                  | Rev.<br>E |                                                                                          |       |
| catalog no                                                                            |   |          |          |                                                                                                                                               |        |               |                    |                                                                                                  |           |                                                                                          |       |



| POS. REF. | N  | DIM "G" | "F" |
|-----------|----|---------|-----|
| 36        | 6  | 8.15    | B17 |
| 64        | 20 | 22.15   | B31 |
| 98        | 37 | 39.15   | B48 |
| 164       | 70 | 72.15   | B81 |

|                                                                                       |          |          |                                                                                                       |        |               |                 |                                                                                                  |                    |                                                                                          |  |       |
|---------------------------------------------------------------------------------------|----------|----------|-------------------------------------------------------------------------------------------------------|--------|---------------|-----------------|--------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------|--|-------|
| www.fciconnect.com                                                                    |          |          | surface          |        | tolerance std |                 | projection  |                    | MM  |  |       |
|                                                                                       |          |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                 |        |               |                 |                                                                                                  |                    |                                                                                          |  |       |
| Dr                                                                                    | STONE LI | 05/27/15 | ANGULAR                                                                                               | LINEAR | 0.X           | ±0.25           | size A4                                                                                          | Scale 1.000        |                                                                                          |  |       |
| Eng                                                                                   | STONE LI | 05/27/15 |                                                                                                       |        | 0.XX          | ±0.15           |                                                                                                  |                    |                                                                                          |  |       |
| Chr                                                                                   | /        | /        |                                                                                                       |        | 0°            | ±5°             |                                                                                                  |                    |                                                                                          |  | 0.XXX |
| Appr                                                                                  | PM ZHENG | 05/27/15 | Product family                                                                                        |        |               |                 |                                                                                                  | ECN ELX-DG-21161-1 |                                                                                          |  |       |
|                                                                                       |          |          | Spec ref                                                                                              |        |               |                 |                                                                                                  |                    |                                                                                          |  |       |
|  |          |          | title PCIE GEN3  |        |               | dwg no 10092852 |                                                                                                  |                    | Rev E                                                                                    |  |       |
|                                                                                       |          |          |                                                                                                       |        |               |                 |                                                                                                  |                    |                                                                                          |  |       |
|                                                                                       |          |          | catalog no -                                                                                          |        |               | CUSTOMER        |                                                                                                  |                    | sheet 2 of 6                                                                             |  |       |

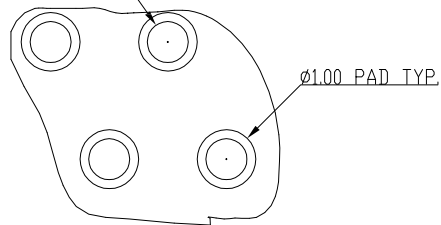


◀ I/O PANEL DIRECTION

## RECOMMENDED FOOTPRINT

| POS. REF. | N  | DIM "H" | DIM "K" |
|-----------|----|---------|---------|
| 36        | 6  | 9.15    | 6.00    |
| 64        | 20 | 23.15   | 20.00   |
| 98        | 37 | 40.15   | 37.00   |
| 164       | 70 | 73.15   | 70.00   |

Ø0.70±0.08 TYP.  
⊕ Ø0.10(M) Y Z(M)  
(SEE NOTE 9 FOR PLATING DETAIL)



DETAIL S  
SCALE 8.000

|                                                                                       |          |                                                                                                       |                                                                                               |   |               |                 |                                                                                       |              |                                                                                          |  |  |
|---------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---|---------------|-----------------|---------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------|--|--|
| www.fciconnect.com                                                                    |          |                                                                                                       | surface  |   | tolerance std |                 |  |              | MM  |  |  |
|                                                                                       |          |                                                                                                       | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                         |   |               |                 |                                                                                       |              |                                                                                          |  |  |
| Dr                                                                                    | STONE LI | 05/27/15                                                                                              | ANGULAR LINEAR                                                                                |   | 0.X           | ±0.25           | size A4                                                                               | Scale 1.000  |                                                                                          |  |  |
| Eng                                                                                   | STONE LI | 05/27/15                                                                                              |                                                                                               |   | 0.XX          | ±0.15           |                                                                                       |              |                                                                                          |  |  |
| Chr                                                                                   | /        | /                                                                                                     | 0° ±5°                                                                                        |   | 0.XXX         | ±0.10           | ECN ELX-DG-21161-1                                                                    |              |                                                                                          |  |  |
| Appr                                                                                  | PM ZHENG | 05/27/15                                                                                              | Product family                                                                                |   |               |                 |                                                                                       | Spec ref     |                                                                                          |  |  |
|  |          | title PCIE GEN3  |                                                                                               |   |               | dwg no 10092852 |                                                                                       |              | Rev. E                                                                                   |  |  |
|                                                                                       |          |                                                                                                       |                                                                                               |   |               |                 |                                                                                       |              |                                                                                          |  |  |
|                                                                                       |          | EXPRESS MODULE PRESS-FIT ASSEMBLY                                                                     |                                                                                               |   |               |                 |                                                                                       |              |                                                                                          |  |  |
|                                                                                       |          | catalog no                                                                                            |                                                                                               | - |               | CUSTOMER        |                                                                                       | sheet 3 of 6 |                                                                                          |  |  |

# NOTES:

## 1. MATERIAL:

HOUSING: HIGH PERFORMANCE RESIN, GLASS FILLED UL94V-0 RATED

TERMINAL: COPPER ALLOY

PLATING: 50u" NICKEL UNDERPLATE ALL OVER TERMINAL

CONTACT AREA PLATING - SEE PRODUCT NUMBER CODE

CONTACT TAIL: TIN OR Sn/Pb - 100u" MIN. OVER 50u" NICKEL

2. P/N SEE TABLE AND PRODUCT NUMBER CODE : DESH-XXXXXTLF FOR TRAY PACKAGING.

3. PACKAGING SPECIFICATION: GS-14-974

4. PRODUCT SPECIFICATION : GS-12-584

△ THE HORIZONTAL AXIS FOR THE HOLE PATTERN IS ESTABLISHED BY A LINE THROUGH THE CENTER OF THE TWO Ø2.35 HOLES.  
THE VERTICAL AXIS IS 90° TO THE HORIZONTAL AXIS, THROUGH THE CENTER OF DATUM Z.

△ NO TIE BAR PERMITTED FROM CARD EDGE TO LEADING EDGE OF PAD FOR PINS A1 AND PIN NUMBERS "F".

△ CHAMFER EDGES MUST BE FREE OF CUTTING BURRS.

△ DIMENSION APPLIES AT CENTER OF PLASTIC PEGS, DIMENSION SHOWN IS TO CENTER LINE OF PEGS.

△ ALL PTH SHOULD BE 0.70~0.82 mm DIA DRILLED AND 0.025 mm MIN. ELECTRO-DEPOSITED COPPER THK ON THROUGH HOLE WALL.

## 10. PRODUCT RoHS DEFINITIONS:

a-IF TERMINAL PLATING OPTION IS "0,1 OR 2" WHICH MEANS PRODUCT IS 'ROHS COMPATIBLE'. THERE WILL BE "LF" SUFFIX IN THE END.

b-IF TERMINAL PLATING OPTION IS "3,4 OR 5" WHICH MEANS PRODUCT IS 'ROHS COMPLIANT'. THERE WILL BE NO "LF" SUFFIX IN THE END.

c-"LF" MEANS THE PRODUCT IS LEAD-FREE, 2um MINIMUM MATTE TIN OVER 1.27um MINIMUM NICKEL UNDERPLATE.

11. THE PRODUCT IS NOT INTENDED TO BE EXPOSED TO A MANUFACTURING SOLDER PROCESS.

10092852 - X X X X X X X X

HOUSING COLOR OPTION:

1: BLACK

0: NON-RIDGE TYPE

1: RIDGE TYPE

(SEE SIDE VIEW OF THIS PAGE)

TERMINAL PLATING OPTIONS

0-50u" Ni UNDERPLATE

30u" Au CONTACT AREA

100u" TIN TAIL AREA -----RoHS COMPATIBALE

1-50u" Ni UNDERPLATE

15u" Au CONTACT AREA

100u" TIN TAIL AREA -----RoHS COMPATIBALE

2-50u" Ni UNDERPLATE

GOLD FLASH CONTACT AREA

100u" TIN TAIL AREA -----RoHS COMPATIBALE

3-50u" Ni UNDERPLATE

30u" Au CONTACT AREA

100u" TIN/LEAD TAIL AREA -----RoHS COMPLIANT

4-50u" Ni UNDERPLATE

15u" Au CONTACT AREA

100u" TIN/LEAD TAIL AREA -----RoHS COMPLIANT

5-50u" Ni UNDERPLATE

GOLD FLASH CONTACT AREA

100u" TIN/LEAD TAIL AREA -----RoHS COMPLIANT

LEAD FREE OPTION

"LF": LEAD-FREE (FOR TERMINAL PLATING OPTION 0,1,2)  
"□□": NOT LEAD-FREE (FOR TERMINAL PLATING OPTION 3,4,5)

PACKAGING OPTIONS

T-TRAY PACKAGING

PDS OPTIONS

0-36

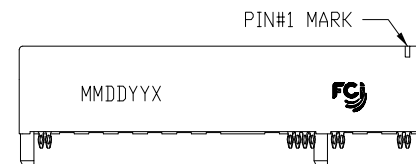
1-64

2-98

3-164

TAIL LENGTH OPTIONS

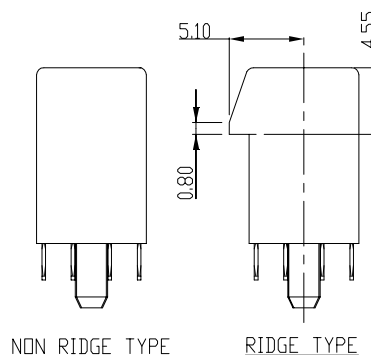
|   | DIM "D"   | PCB THICKNESS |
|---|-----------|---------------|
| 0 | 2.00±0.20 | 2.36          |
| 1 | 3.25±0.20 | 4.19          |



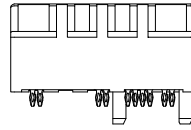
DATE CODE:

MMDDYY:MONTH/DAY/YEAR

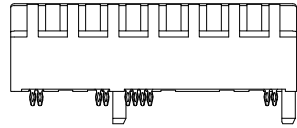
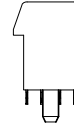
X: "K" - GEN.2 MARK



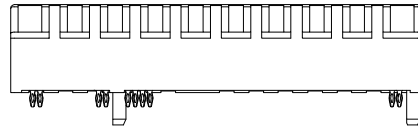
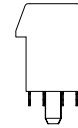
|                                                                                       |                                                                                                        |          |                                                                                               |     |                 |       |                                                                                                  |              |                                                                                          |  |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|-----|-----------------|-------|--------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------|--|
| www.fciconnect.com                                                                    |                                                                                                        |          | surface  |     | tolerance std   |       | projection  |              | MM  |  |
|                                                                                       |                                                                                                        |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                         |     |                 |       |                                                                                                  |              |                                                                                          |  |
| Dr                                                                                    | TONE LI                                                                                                | 05/27/15 | ANGULAR LINEAR                                                                                |     | 0.X             | ±0.25 | size A4                                                                                          | Scale 1.000  |                                                                                          |  |
| Eng                                                                                   | TONE LI                                                                                                | 05/27/15 |                                                                                               |     | 0.XX            | ±0.15 |                                                                                                  |              |                                                                                          |  |
| Chr                                                                                   | /                                                                                                      | /        | 0°                                                                                            | ±5° | 0.XXX           | ±0.10 | ECN ELX-DG-21161-1                                                                               |              |                                                                                          |  |
| Appr                                                                                  | PM ZHENG                                                                                               | 05/27/15 | Product family                                                                                |     |                 |       |                                                                                                  | Spec ref     |                                                                                          |  |
|  | title PCIE GEN 3  |          |                                                                                               |     | dwg no 10092852 |       |                                                                                                  | Rev E        |                                                                                          |  |
|                                                                                       | EXPRESS MODULE PRESS-FIT ASSEMBLY                                                                      |          |                                                                                               |     |                 |       |                                                                                                  |              |                                                                                          |  |
|                                                                                       | catalog no -                                                                                           |          |                                                                                               |     | CUSTOMER        |       |                                                                                                  | sheet 4 of 6 |                                                                                          |  |



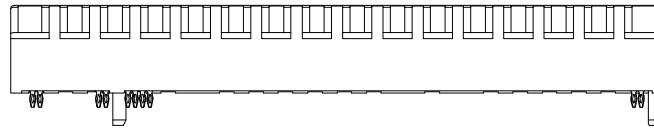
36 PIN RIDGE TYPE FRONT VIEW



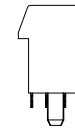
64 PIN RIDGE TYPE FRONT VIEW



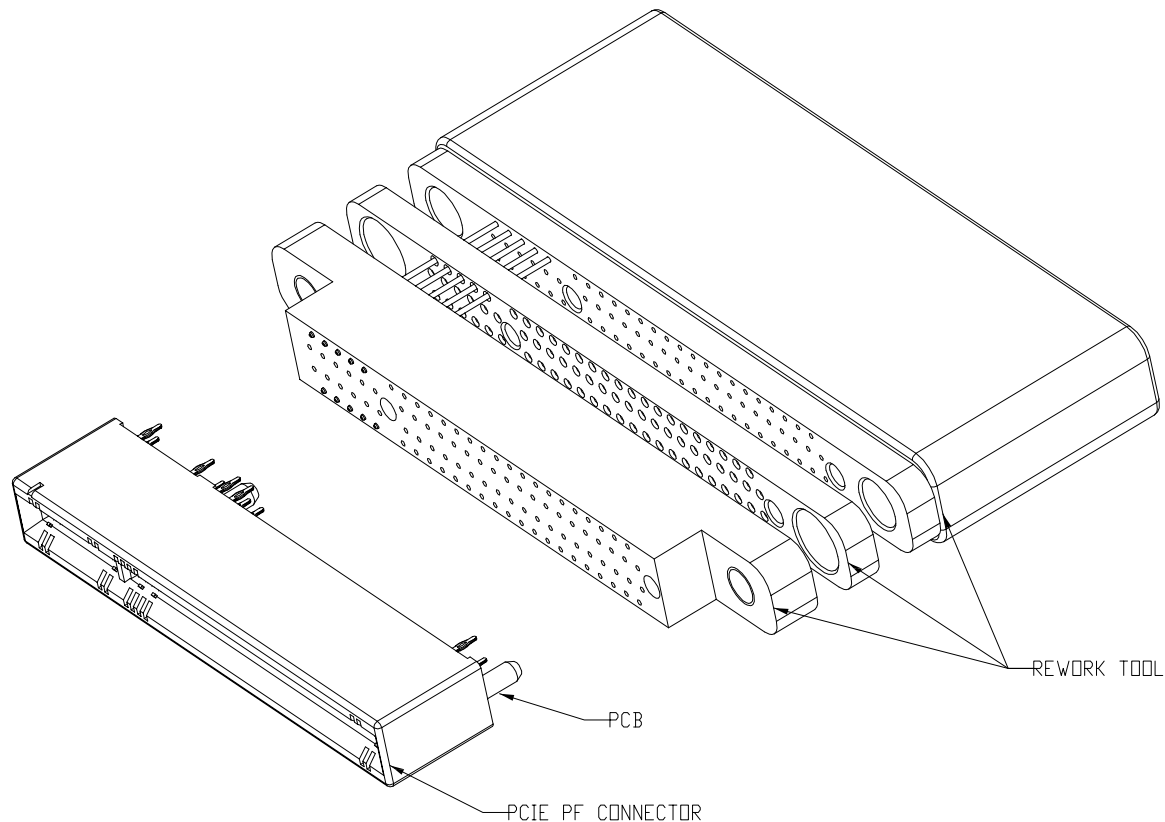
98 PIN RIDGE TYPE FRONT VIEW



164 PIN RIDGE TYPE FRONT VIEW



|                                                                                       |                   |  |                                                                                                                                            |        |               |                 |                                                                                                  |              |                                                                                          |       |
|---------------------------------------------------------------------------------------|-------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------|-----------------|--------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------|-------|
| www.fciconnect.com                                                                    |                   |  | surface                                               |        | tolerance std |                 | projection  |              | MM  |       |
|                                                                                       |                   |  | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                                                      |        |               |                 |                                                                                                  |              |                                                                                          |       |
| Dr                                                                                    | STONE LI 05/27/15 |  | ANGULAR                                                                                                                                    | LINEAR | 0.X           | ±0.25           | size                                                                                             | A4           | Scale                                                                                    | 1.000 |
| Eng                                                                                   | STONE LI 05/27/15 |  |                                                                                                                                            |        | 0.XX          | ±0.15           |                                                                                                  |              |                                                                                          |       |
| Chr                                                                                   | / /               |  | 0°                                                                                                                                         | ±5°    | 0.XXX         | ±0.10           | ECN ELX-DG-21161-1                                                                               |              |                                                                                          |       |
| Appr                                                                                  | PM ZHENG 05/27/15 |  | Product family                                                                                                                             |        |               | -               | Spec ref                                                                                         |              |                                                                                          |       |
|  |                   |  | title PCIE GEN3 <br>EXPRESS MODULE PRESS-FIT ASSEMBLY |        |               | dwg no 10092852 |                                                                                                  |              | Rev. E                                                                                   |       |
|                                                                                       |                   |  |                                                                                                                                            |        |               |                 |                                                                                                  |              |                                                                                          |       |
|                                                                                       |                   |  | catalog no -                                                                                                                               |        |               | CUSTOMER        |                                                                                                  | sheet 5 of 6 |                                                                                          |       |



CONNECTOR REWORK TOOL & ILLUSTRATION  
(SEE APPLICATION SPECIFICATION GS-20-117  
FOR DETAILS)

PRODUCT DIMENSION TABLE FOR EACH TYPES

| CONNECTOR | # POS REF. | N  | DIM 'A' | DIM 'B' | DIM 'C' | DIM 'E' |
|-----------|------------|----|---------|---------|---------|---------|
| 1 PORT    | 36         | 6  | 7.65    | 25.00   | 9.15    | 6.00    |
| 4 PORT    | 64         | 20 | 21.65   | 39.00   | 23.15   | 20.00   |
| 8 PORT    | 98         | 37 | 38.65   | 56.00   | 40.15   | 37.00   |
| 16 PORT   | 164        | 70 | 71.65   | 89.00   | 73.15   | 70.00   |

|                                                                                       |                                                                                                                                            |          |                                             |        |               |                 |                                                                                                  |             |                                                                                          |  |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------|--------|---------------|-----------------|--------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------|--|
| www.fciconnect.com                                                                    |                                                                                                                                            |          | surface <input checked="" type="checkbox"/> |        | tolerance std |                 | projection  |             | MM  |  |
|                                                                                       |                                                                                                                                            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED       |        |               |                 |                                                                                                  |             |                                                                                          |  |
| Dr                                                                                    | STONE LI                                                                                                                                   | 05/27/15 | ANGULAR                                     | LINEAR | 0.X           | ±0.25           | size A4                                                                                          | Scale 1.000 |                                                                                          |  |
| Eng                                                                                   | STONE LI                                                                                                                                   | 05/27/15 |                                             |        | 0.XX          | ±0.15           |                                                                                                  |             |                                                                                          |  |
| Chr                                                                                   | /                                                                                                                                          | /        | 0°                                          | ±5°    | 0.XXX         | ±0.10           | ECN ELX-DG-21161-1                                                                               |             |                                                                                          |  |
| Appr                                                                                  | PM ZHENG                                                                                                                                   | 05/27/15 | Product family                              |        |               |                 |                                                                                                  | Spec ref    |                                                                                          |  |
|  | title PCIE GEN3 <br>EXPRESS MODULE PRESS-FIT ASSEMBLY |          |                                             |        |               | dwg no 10092852 |                                                                                                  |             | Rev E                                                                                    |  |
|                                                                                       |                                                                                                                                            |          |                                             |        |               |                 |                                                                                                  |             |                                                                                          |  |
|                                                                                       | catalog no                                                                                                                                 |          |                                             |        |               | CUSTOMER        |                                                                                                  |             | sheet 6 of 6                                                                             |  |

# Mouser Electronics

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