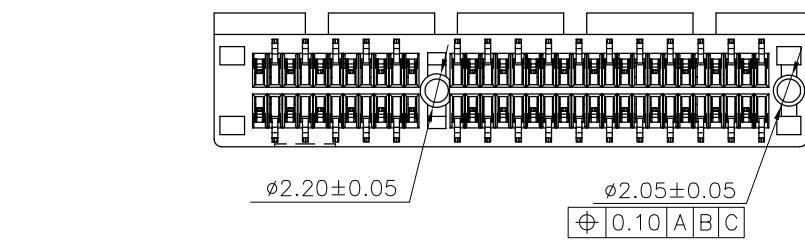
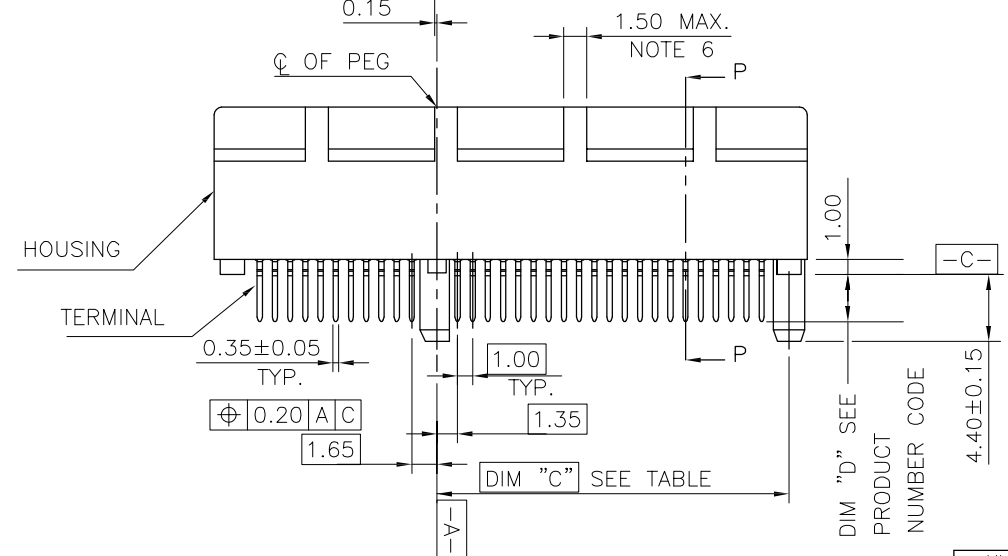
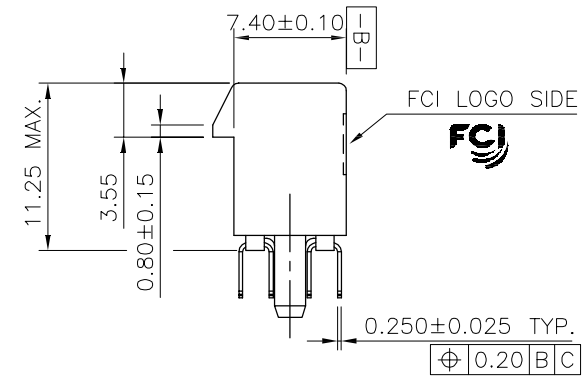


PRODUCT NO.  
10108777-X0XXXX



SECTION P-P



TWIN PLASTIC PEG TYPE

|             |               |          |      |            |                                       |            |                            |                |                  |
|-------------|---------------|----------|------|------------|---------------------------------------|------------|----------------------------|----------------|------------------|
| mat'l. code |               | surface  |      | tolerance  |                                       | projection |                            | product family |                  |
| -           |               | -        |      | ASME_Y14.5 |                                       | MM         |                            | PCI_EXPRESS    |                  |
| lfr         |               | ecn no   | dr   | date       | tolerances unless otherwise specified |            | title                      |                |                  |
| C           | DG-011582     | HT       |      | 5/10/12    | .02±0.30                              |            | PCI_EXPRESS_CARD_EDGE_GEN3 |                |                  |
| D           | ELX-DG-013209 | WL       |      | 07/24/12   | .00±0.20                              |            | TH_ASS'Y                   |                |                  |
| E           | ELX-DG-2181-1 | ST       |      | 05/27/15   | ±2'                                   |            | scale N/A                  |                |                  |
| F           | ELX-DG-24164  | ZH       | dr   | 05/30/16   | ZHENHUA_LIU                           | 2016-03-30 | dwg no                     |                | sheet 1 of 7     |
| G           | ELX-DG-25671  | ZH       | enfr | 12/18/16   | ZHENHUA_LIU                           | 2016-03-30 | 10108777                   |                | A4               |
| H           | ELX-DG-27937  | ZH       | chr  | 09/12/17   | STONE_LI                              | 2016-03-30 | type                       |                | CUSTOMER Drawing |
| sheet index |               | revision | H    | appd       |                                       | PM_ZHENG   | 2016-03-30                 |                |                  |

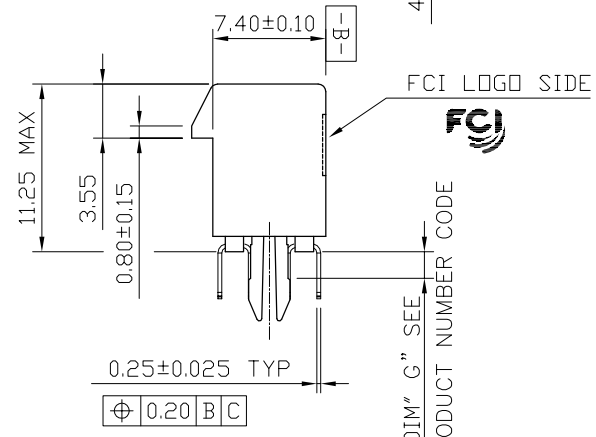
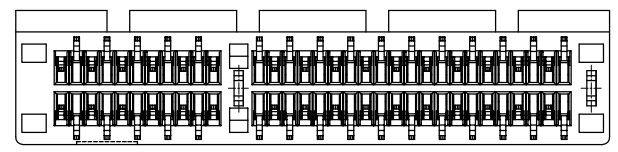
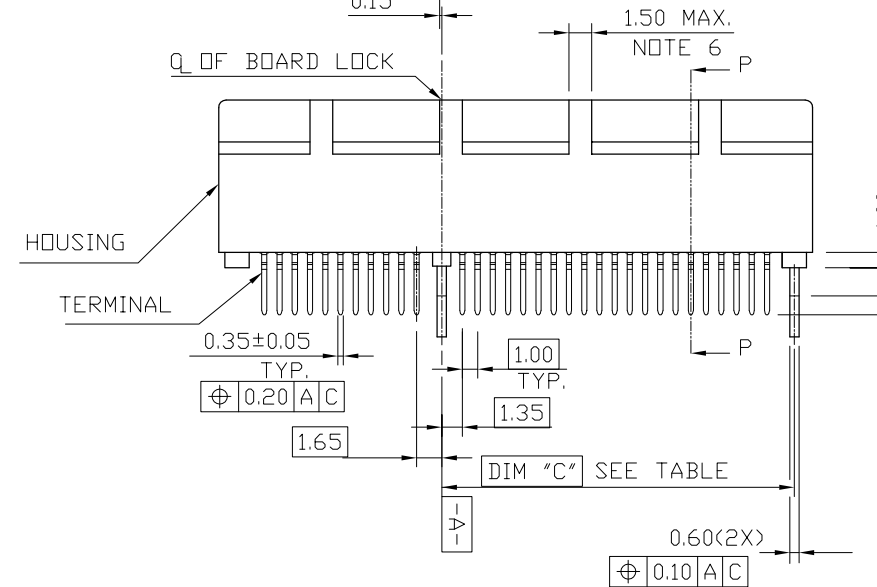
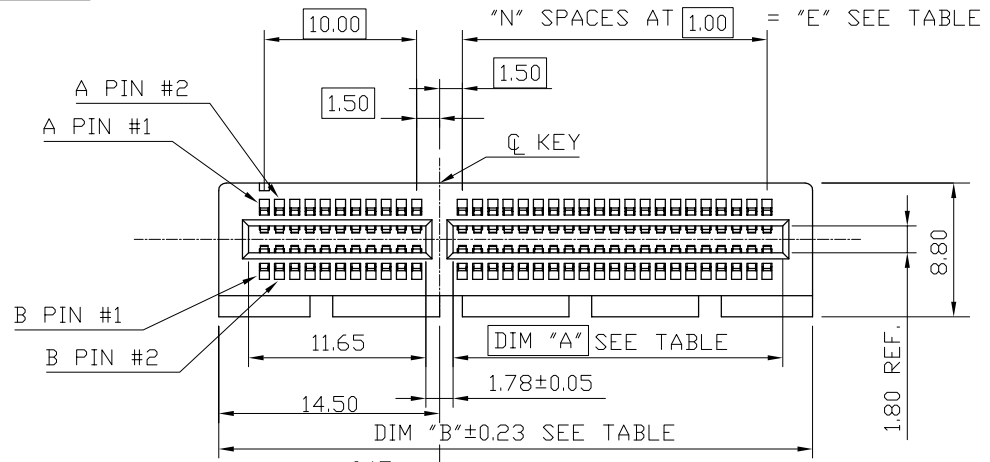
PRODUCT NO.  
10108777-X2XXXX



**SINGLE PLASTIC PEG TYPE**

|             |  |                |  |         |  |             |  |                                       |  |            |  |             |  |                |  |                            |  |
|-------------|--|----------------|--|---------|--|-------------|--|---------------------------------------|--|------------|--|-------------|--|----------------|--|----------------------------|--|
| mat'l. code |  | -              |  | surface |  | - ✓         |  | tolerance                             |  | ASME_Y14.5 |  | projection  |  | product family |  | PCI_EXPRESS                |  |
| lfr         |  | ecn no         |  | dr      |  | date        |  | tolerances unless otherwise specified |  | angles     |  | MM          |  | title          |  | PCI_EXPRESS_CARD_EDGE_GEN3 |  |
|             |  |                |  |         |  |             |  | ±2'                                   |  | LineGr     |  | scale N/A   |  | TH_ASS'Y       |  | 5                          |  |
|             |  |                |  | dr      |  | ZHENHUA_LIU |  | 2016-03-30                            |  | enfr       |  | ZHENHUA_LIU |  | 2016-03-30     |  | dwg no                     |  |
|             |  |                |  | chr     |  | STONE_LI    |  | 2016-03-30                            |  | appr       |  | PM_ZHENG    |  | 2016-03-30     |  | sheet 2 of 7               |  |
| sheet index |  | revision sheet |  | H       |  |             |  |                                       |  |            |  |             |  | 10108777       |  | size A4                    |  |
|             |  |                |  |         |  |             |  |                                       |  |            |  |             |  | type           |  | CUSTOMER Drawing           |  |

PRODUCT NO.  
10108777-X1XXXX



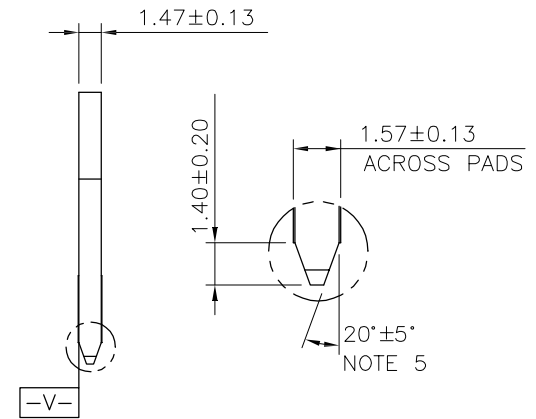
METAL BOARD LOCKS

|             |          |         |             |                                       |                 |            |                            |                |                  |      |
|-------------|----------|---------|-------------|---------------------------------------|-----------------|------------|----------------------------|----------------|------------------|------|
| mat'l. code | -        | surface | -           | tolerance                             | ✓ ASME_Y14.5    | projection |                            | product family | PCI_EXPRESS      |      |
| lfr         | ecn no   | dr      | date        | tolerances unless otherwise specified |                 |            | MM                         | title          |                  |      |
|             |          |         |             | angles                                | Line of         | Line of    | PCI_EXPRESS_CARD_EDGE_GEN3 |                |                  |      |
|             |          |         |             | ±2'                                   | .02±0.30        | .00±0.20   | TH_ASS'Y                   |                |                  |      |
|             |          |         |             |                                       | .000±0.10       | .000±0.10  | scale                      | N/A            |                  |      |
|             |          | dr      | ZHENHUA_LIU | 2016-03-30                            | Amphenol<br>FCI |            | dwg no                     |                | sheet 3 of 7     | size |
|             |          | enfr    | ZHENHUA_LIU | 2016-03-30                            |                 |            | 10108777                   |                | A4               |      |
|             |          | chr     | STONE_LI    | 2016-03-30                            |                 |            |                            |                |                  |      |
|             |          | appd    | PM_ZHENG    | 2016-03-30                            |                 |            | type                       |                | CUSTOMER Drawing |      |
| sheet index | revision | H       |             |                                       |                 |            |                            |                |                  |      |



RECOMMENDED FOOTPRINT

|             |  |                |  |            |  |            |  |                            |  |
|-------------|--|----------------|--|------------|--|------------|--|----------------------------|--|
| mat'l. code |  | surface        |  | tolerance  |  | projection |  | product family             |  |
| -           |  | -              |  | ASME_Y14.5 |  |            |  | PCI_EXPRESS                |  |
| lfr         |  | ecn no         |  | dr         |  | date       |  | title                      |  |
|             |  |                |  |            |  |            |  | PCI_EXPRESS_CARD_EDGE_GEN3 |  |
|             |  |                |  |            |  |            |  | TH_ASS'Y                   |  |
|             |  |                |  |            |  |            |  | sheet 4 of 7               |  |
|             |  |                |  |            |  |            |  | size                       |  |
|             |  |                |  |            |  |            |  | A4                         |  |
|             |  |                |  |            |  |            |  | type                       |  |
|             |  |                |  |            |  |            |  | CUSTOMER Drawing           |  |
| sheet index |  | revision sheet |  | H          |  |            |  |                            |  |
|             |  |                |  |            |  |            |  |                            |  |



SCALE 2:1

← I/O PANEL DIRECTION  
PRIMARY (COMPONENT) SIDE



I/O PANEL DIRECTION →  
SECONDARY (SOLDER) SIDE

PIN "F" SEE TABLE 2.40±0.10 NOTE 4

PIN "F" SEE TABLE 2.40±0.10 NOTE 4

| #   | 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 |

ADD-IN CARD EDGE-FINGER DIMENSIONS

|             |  |                |  |         |  |             |  |                                       |  |            |  |              |  |                            |  |                   |  |
|-------------|--|----------------|--|---------|--|-------------|--|---------------------------------------|--|------------|--|--------------|--|----------------------------|--|-------------------|--|
| mat'l. code |  | -              |  | surface |  | - ✓         |  | tolerance                             |  | ASME_Y14.5 |  | projection   |  | product family             |  | PCI_EXPRESS       |  |
| lfr         |  | ecn no         |  | dr      |  | date        |  | tolerances unless otherwise specified |  | MM         |  | title        |  | PCI_EXPRESS_CARD_EDGE_GEN3 |  | TH_ASS'Y          |  |
|             |  |                |  |         |  |             |  | angles                                |  | .0±0.20    |  | scale N/A    |  | dwg no                     |  | sheet 5 of 7 size |  |
|             |  |                |  |         |  |             |  | ±2'                                   |  | .00±0.13   |  | Amphenol FCI |  | 10108777                   |  | A4                |  |
|             |  |                |  | dr      |  | ZHENHUA_LIU |  | 2016-03-30                            |  |            |  |              |  | type                       |  | CUSTOMER Drawing  |  |
|             |  |                |  | enfr    |  | ZHENHUA_LIU |  | 2016-03-30                            |  |            |  |              |  |                            |  |                   |  |
|             |  |                |  | chr     |  | STONE_LI    |  | 2016-03-30                            |  |            |  |              |  |                            |  |                   |  |
|             |  |                |  | appd    |  | PM_ZHENG    |  | 2016-03-30                            |  |            |  |              |  |                            |  |                   |  |
| sheet index |  | revision sheet |  | H       |  |             |  |                                       |  |            |  |              |  |                            |  |                   |  |

NOTES:

1.MATERIAL:

HOUSING: HIGH TEMPERATURE NYLON, GLASS FILLED UL94V-0 RATED.  
TERMINAL: COPPER ALLOY.

PLATING: 50u" NICKEL UNDERPLATE ALL OVER  
CONTACT AREA PLATING - SEE PRODUCT NUMBER CODE  
SOLDER TAIL: TIN OR TIN /LEAD(90/10)- SEE PRODUCT NUMBER CODE 100u" MIN. OVER 50u" NICKEL.

METAL BOARD LOCKS: COPPER ALLOY.  
FINISH: 100u" TIN OR TIN/LEAD(90/10) OVER 50u" NICKEL  
UNDERPLATE SEE PRODUCT NUMBER CODE.

2.PRODUCT SPECIFICATION: GS-12-233.

③THE 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.

④NO TIE BAR PERMITTED FROM CARD EDGE TO LEADING EDGE OF PAD FOR PINS A1 AND PIN NUMBERS "F".

⑤CHAMFER EDGES MUST BE FREE OF CUTTING BURRS.

⑥FREQUENCY & LOCATION AT SUPPLIER DISCRETION. RIDGE MAY BE CONTINUOUS WITH NO BREAKS.

7.RoHS COMPATIBLE PRODUCT SPECIFICATIONS:

a - PLATING:

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

b - MANUFACTURING PROCESS COMPATIBILITY:

- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C±5°C TEMPERATURE FOR 10 SECONDS IN RE-FLOW APPLICATION, SEE NOTE 8 FOR APPLICATION.

PRODUCT NUMBER CODE

10108777 -X X X X X X

HOUSING COLOR OPTIONS

- 0-NATURAL
- 1-BLACK

PEGS OPTIONS

- 0-PLASTIC PEGS, DIM
- 1-METAL BOARD LOCKS
- 2-SINGLE PLASTIC PEGS

TERMINAL PLATING OPTIONS

- 0-50u" Ni UNDERPLATE  
30u" Au CONTACT AREA  
100u" TIN TAIL AREA ----- COMPATIBLE RoHS
- 1-50u" Ni UNDERPLATE  
15u" Au CONTACT AREA  
100u" TIN TAIL AREA ----- COMPATIBLE RoHS
- 2-50u" Ni UNDERPLATE  
GOLD FLASH CONTACT AREA  
100u" TIN TAIL AREA ----- COMPATIBLE RoHS
- 3-50u" Ni UNDERPLATE  
30u" Au CONTACT AREA  
100u" TIN/LEAD TAIL AREA ---INCOMPLIANT RoHS
- 4-50u" Ni UNDERPLATE  
15u" Au CONTACT AREA  
100u" TIN/LEAD TAIL AREA ---INCOMPLIANT RoHS
- 5-50u" Ni UNDERPLATE  
GOLD FLASH CONTACT AREA  
100u" TIN/LEAD TAIL AREA ---INCOMPLIANT RoHS

LEAD FREE OPTION

LEAVE BLANK FOR TERMINAL PLATING 3.4.5  
"LF" FOR TERMINAL PLATING OPTION 0,1,2

POS OPTIONS

- 0-36
- 1-64
- 2-98
- 3-164

TAIL LENGTH OPTIONS

|   | DIM "D"                                  | PCB THICKNESS | DIM "G"   |
|---|--|---------------|-----------|
| 0 | 2.30 <sup>+0.25</sup> / <sub>-0.13</sub> | 1.56±0.10     | 1.70±0.15 |
| 1 | 3.10 <sup>+0.25</sup> / <sub>-0.13</sub> | 2.36±0.10     | 2.50±0.15 |
| 2 | 2.54±0.25                                | 1.56±0.10     | 1.70±0.15 |
| 3 | 1.90±0.25                                | 1.56±0.10     | 1.70±0.15 |
| 4 | 3.10 <sup>+0.25</sup> / <sub>-0.13</sub> | 2.0±0.10      | 1.70±0.15 |

| CONNECTOR | # POS REF. | N  | DIM "A" | DIM "B" | DIM "C" | "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 |

- 8.AN ADEQUATE PROCEDURE SET FORTH IN THE FOLLOWING ENSURE THAT THE PRODUCT RELIABILITY CAN BE ACHIEVED DURING AND AFTER PCB ASSEMBLY OPERATION.
- 8.1IF PARTIAL LOT ARE USED, THE REMAINING CONNECTORS MUST BE RESEALED AND PLACED IN SAFE STORAGE WITHIN SIX HOURS OF BAG OPENING.
- 8.2THE SAFE STORAGE CONDITION IS RECOMMENDED AT 25°C, 40%RH.
- 8.3NOT FOLLOWING THE PROCEDURE MAY CAUSE BLISTER DAMAGE DURING RE-FLOW PROCESS.
- 8.4IF BAKING IS REQUIRED, CONNECTOR SHALL BE BAKED FOR 4 HOURS AT 125°C.
- 8.5REFERENCE SPECIFICATION: IPC/JEDEC J-STD-033A.

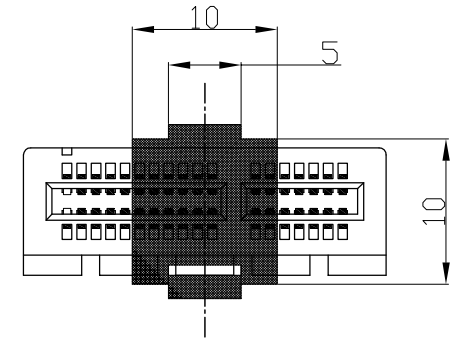
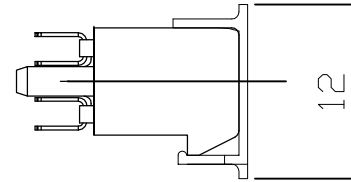
PACKAGING OPTIONS

- E-HARD TRAY WITH MYLAR FOR VACUUM PACKAGING (FOR 164P ONLY)
- T-SOFT TRAY PACKAGING
- C-SOFT TRAY PACKAGING WITH 10MM CAP
- M-SOFT TRAY PACKAGING & MYLAR TAPE. SEE FIGURE 1
- Y-HARD TRAY PACKAGING (FOR 36P,98P AND 164P ONLY)
- Z-HARD TRAY PACKAGING WITH MYLAR (FOR 36P,98P AND 164P ONLY)
- H-SMALLER HARD TRAY PACKAGING WITH 30MM CAP (323X136X17.7 FOR 164P ONLY)
- △ Q-SMALLER HARD TRAY PACKAGING (323X136X17.7 FOR 164P ONLY)
- R-TAPE & REEL PACKAGING WITHOUT MYLAR (FOR 34, 64, 98P ONLY)
- W-TAPE & REEL PACKAGING WITHOUT MYLAR (FOR 98P ONLY), WITH 18.0MM CAVITY WIDTH
- A-TAPE & REEL PACKAGING WITH MYLAR (FOR 36, 64, 98P ONLY)

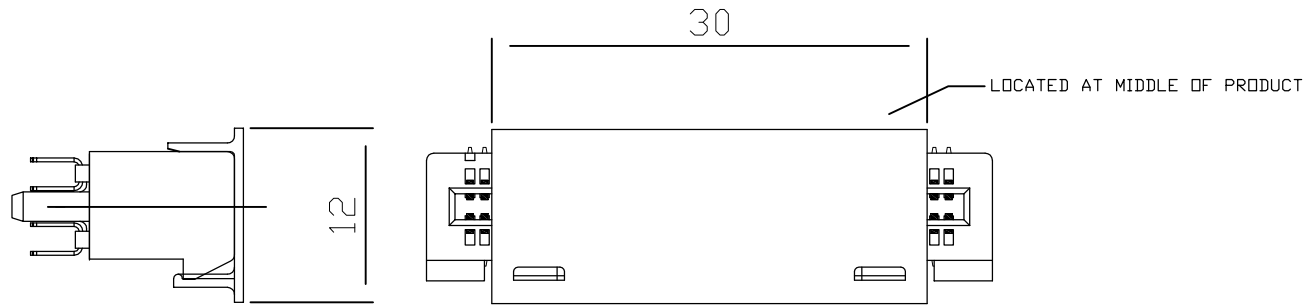
|             |  |          |  |            |  |            |  |                            |  |
|-------------|--|----------|--|------------|--|------------|--|----------------------------|--|
| mat'l. code |  | surface  |  | tolerance  |  | projection |  | product family             |  |
| -           |  | -        |  | ASME_Y14.5 |  |            |  | PCI_EXPRESS                |  |
| lfr         |  | ecn no   |  | dr         |  | date       |  | title                      |  |
|             |  |          |  |            |  |            |  | PCI_EXPRESS_CARD_EDGE_GEN3 |  |
|             |  |          |  |            |  |            |  | TH_ASS'Y                   |  |
|             |  |          |  |            |  |            |  | dwg no                     |  |
|             |  |          |  |            |  |            |  | sheet 6 of 7               |  |
|             |  |          |  |            |  |            |  | size                       |  |
|             |  |          |  |            |  |            |  | A4                         |  |
|             |  |          |  |            |  |            |  | type                       |  |
|             |  |          |  |            |  |            |  | CUSTOMER Drawing           |  |
| sheet       |  | revision |  | H          |  |            |  |                            |  |
| index       |  | sheet    |  |            |  |            |  |                            |  |



POSTION OF MYLAR



POSTION OF CAP <10x10>



POSTION OF 30MM CAP<30X12>

|             |  |                |  |             |  |            |  |                            |  |
|-------------|--|----------------|--|-------------|--|------------|--|----------------------------|--|
| mat'l. code |  | surface        |  | tolerance   |  | projection |  | product family             |  |
| -           |  | -              |  | ASME_Y14.5  |  |            |  | PCI_EXPRESS                |  |
| lfr         |  | ecn no         |  | dr          |  | date       |  | title                      |  |
|             |  |                |  |             |  |            |  | PCI_EXPRESS_CARD_EDGE_GEN3 |  |
|             |  |                |  | angles      |  |            |  | TH_ASS'Y                   |  |
|             |  |                |  | ±2'         |  |            |  | scale N/A                  |  |
|             |  | dr             |  | ZHENHUA_LIU |  | 2016-03-30 |  | dwg no                     |  |
|             |  | enfr           |  | ZHENHUA_LIU |  | 2016-03-30 |  | sheet 7 of 7               |  |
|             |  | chr            |  | STONE_LI    |  | 2016-03-30 |  | size                       |  |
|             |  | appd           |  | PM_ZHENG    |  | 2016-03-30 |  | A4                         |  |
|             |  |                |  |             |  |            |  | 10108777                   |  |
|             |  |                |  |             |  |            |  | type                       |  |
|             |  |                |  |             |  |            |  | CUSTOMER Drawing           |  |
| sheet index |  | revision sheet |  | H           |  |            |  |                            |  |
|             |  |                |  |             |  |            |  |                            |  |