

|                                       |  |                                                                                                                                        |  |                                                                                                                                          |  |                                                                                                                        |  |
|---------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|--|
| 1                                     |  | 2                                                                                                                                      |  | 3                                                                                                                                        |  | 4                                                                                                                      |  |
| 61083-AA                              |  | B                                                                                                                                      |  | C                                                                                                                                        |  | D                                                                                                                      |  |
| E                                     |  | G                                                                                                                                      |  | FF                                                                                                                                       |  |                                                                                                                        |  |
| AA                                    |  | NO. OF POSITIONS                                                                                                                       |  | NOTE 10                                                                                                                                  |  |                                                                                                                        |  |
| 02                                    |  | 2X10                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 04                                    |  | 2X20                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 06                                    |  | 2X30                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 08                                    |  | 2X40                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 10                                    |  | 2X50                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 12                                    |  | 2X60                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 14                                    |  | 2X70                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 16                                    |  | 2X80                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 18                                    |  | 2X90                                                                                                                                   |  |                                                                                                                                          |  |                                                                                                                        |  |
| 20                                    |  | 2X100                                                                                                                                  |  |                                                                                                                                          |  |                                                                                                                        |  |
| B                                     |  | 1                                                                                                                                      |  | 2                                                                                                                                        |  | 3                                                                                                                      |  |
|                                       |  | 4                                                                                                                                      |  |                                                                                                                                          |  |                                                                                                                        |  |
|                                       |  | 4.7                                                                                                                                    |  | 5.7                                                                                                                                      |  | 6.7                                                                                                                    |  |
|                                       |  | 7.7                                                                                                                                    |  |                                                                                                                                          |  |                                                                                                                        |  |
|                                       |  | FOR COMBINATION OF MATED HEIGHT, SEE DWG. NO. 61082                                                                                    |  |                                                                                                                                          |  |                                                                                                                        |  |
| NOTE:                                 |  | 1. MATERIAL:                                                                                                                           |  | HOUSING: G.F. LCP, UL94-V0                                                                                                               |  | TERMINAL: BRASS                                                                                                        |  |
|                                       |  | 2. PLATING: AS SHOWN IN TABLE.                                                                                                         |  | 3. SEE GS-12-547 FOR PRODUCT SPEC.                                                                                                       |  | 4. PACKAGING OPTION 2: NOT ALL SIZES ARE AVAILABLE. CHECK WITH FACTORY.                                                |  |
|                                       |  | 5. THIS PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.                           |  | 6. THE HOUSING WILL WITHSTAND EXPOSURE UP TO 260° PEAK TEMPERATURE FOR 30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. |  | 7. PLATING OPTION "4" IS LEADFREE ALTERNATIVE FOR OPTION "0", AND OPTION "6" IS LEADFREE ALTERNATIVE FOR OPTION "1".   |  |
|                                       |  | 8. HIGH PRECISION COPLANARITY IS AVAILABLE FOR 2X80 TO 2X100 POS, ALL HEIGHTS. PLS REFER TO PRINT 10069525.                            |  | 9. THE P/N 61083-***** OR 61083-*****LF NOT PRINT DATE CODE. THE P/N 61083-*****P OR 61083-*****PLF NEED PRINT DATE CODE.                |  | 10. POSITION 2X10 TYPE ONLY APPLY TO PLUG 1. PACKAGING WITH METAL CAP AND PLASTIC CAP DOES NOT APPLY TO 2X10 POSITION. |  |
|                                       |  | 11. KAPTON TAPE ONLY APPLY TO POSITION 2X10~2X20.                                                                                      |  |                                                                                                                                          |  |                                                                                                                        |  |
| C                                     |  | D                                                                                                                                      |  | E                                                                                                                                        |  | FF                                                                                                                     |  |
| 0                                     |  | GOLD 0.2um MIN. / TIN LEAD 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um MIN                                                              |  | NONE                                                                                                                                     |  |                                                                                                                        |  |
| 1                                     |  | GOLD FLASH (0.1um MIN) OVER PALLADIUM-NICKEL 0.76um MIN / TIN LEAD 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um.                         |  | NONE                                                                                                                                     |  |                                                                                                                        |  |
| 4                                     |  | GOLD 0.2um MIN / PURE MATT TIN 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING)                                          |  | LF                                                                                                                                       |  |                                                                                                                        |  |
| 5                                     |  | GOLD 0.38um MIN / MATT PURE TIN 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um MIN (LEADFREE PLATING)                                      |  | LF                                                                                                                                       |  |                                                                                                                        |  |
| 6                                     |  | GOLD FLASH (0.1um MIN) OVER PALLADIUM-NICKEL 0.76um MIN / PURE MATT TIN 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING) |  | LF                                                                                                                                       |  |                                                                                                                        |  |
| 9                                     |  | GOLD 0.2um MIN / GOLD 0.05um MIN NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING)                                                  |  | LF                                                                                                                                       |  |                                                                                                                        |  |
| D                                     |  | FEATURE                                                                                                                                |  | HOLD DOWN                                                                                                                                |  |                                                                                                                        |  |
| 0                                     |  | YES                                                                                                                                    |  | NO                                                                                                                                       |  |                                                                                                                        |  |
| 2                                     |  | NO                                                                                                                                     |  | NO                                                                                                                                       |  |                                                                                                                        |  |
| G                                     |  | DATE CODE                                                                                                                              |  | / NOT PRINT DATE CODE                                                                                                                    |  | P PRINT DATE CODE                                                                                                      |  |
| E                                     |  | PACKAGING                                                                                                                              |  | 0 TUBE WITHOUT METAL CAP                                                                                                                 |  | 2 T&R WITH METAL CAP                                                                                                   |  |
|                                       |  |                                                                                                                                        |  | 9 TUBE WITH METAL CAP                                                                                                                    |  | 6 T&R WITHOUT METAL CAP (WITH KAPTON TAPE)                                                                             |  |
|                                       |  |                                                                                                                                        |  | 7 T&R WITH PLASTIC CAP                                                                                                                   |  |                                                                                                                        |  |
|                                       |  |                                                                                                                                        |  |                                                                                                                                          |  | NOTE 10                                                                                                                |  |
|                                       |  |                                                                                                                                        |  |                                                                                                                                          |  | NOTE 10                                                                                                                |  |
|                                       |  |                                                                                                                                        |  |                                                                                                                                          |  | NOTE 11                                                                                                                |  |
|                                       |  |                                                                                                                                        |  |                                                                                                                                          |  | NOTE 10                                                                                                                |  |
| C                                     |  | PLATING: CONTACT AREA / SOLDER TAIL AREA                                                                                               |  | FF                                                                                                                                       |  |                                                                                                                        |  |
| 0                                     |  | GOLD 0.2um MIN. / TIN LEAD 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um MIN                                                              |  | NONE                                                                                                                                     |  |                                                                                                                        |  |
| 1                                     |  | GOLD FLASH (0.1um MIN) OVER PALLADIUM-NICKEL 0.76um MIN / TIN LEAD 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um.                         |  | NONE                                                                                                                                     |  |                                                                                                                        |  |
| 4                                     |  | GOLD 0.2um MIN / PURE MATT TIN 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING)                                          |  | LF                                                                                                                                       |  |                                                                                                                        |  |
| 5                                     |  | GOLD 0.38um MIN / MATT PURE TIN 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um MIN (LEADFREE PLATING)                                      |  | LF                                                                                                                                       |  |                                                                                                                        |  |
| 6                                     |  | GOLD FLASH (0.1um MIN) OVER PALLADIUM-NICKEL 0.76um MIN / PURE MATT TIN 2.5um MIN NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING) |  | LF                                                                                                                                       |  |                                                                                                                        |  |
| 9                                     |  | GOLD 0.2um MIN / GOLD 0.05um MIN NICKEL UNDERPLATE OVERALL 1.27um. (LEADFREE PLATING)                                                  |  | LF                                                                                                                                       |  |                                                                                                                        |  |
| spec ref                              |  | dr                                                                                                                                     |  | Guomin Sun                                                                                                                               |  | 2014-10-21                                                                                                             |  |
| tolerance std                         |  | eng                                                                                                                                    |  | Guomin Sun                                                                                                                               |  | 2014-10-21                                                                                                             |  |
|                                       |  | chr                                                                                                                                    |  | ZK Hu                                                                                                                                    |  | 2014-10-21                                                                                                             |  |
|                                       |  | appr                                                                                                                                   |  | Feagle Pan                                                                                                                               |  | 2014-10-21                                                                                                             |  |
| surface                               |  | linear                                                                                                                                 |  | 0.X                                                                                                                                      |  | ±0.2                                                                                                                   |  |
|                                       |  |                                                                                                                                        |  | 0.XX                                                                                                                                     |  | ±0.15                                                                                                                  |  |
|                                       |  |                                                                                                                                        |  | 0.XXX                                                                                                                                    |  | ±0.10                                                                                                                  |  |
|                                       |  | angular                                                                                                                                |  | 0°                                                                                                                                       |  | ±2°                                                                                                                    |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |  | FCI                                                                                                                                    |  | title                                                                                                                                    |  | BERGSTAK 0.8mm BTB                                                                                                     |  |
|                                       |  | www.fci.com                                                                                                                            |  | cat. no.                                                                                                                                 |  | -                                                                                                                      |  |
|                                       |  | Product                                                                                                                                |  | Customer                                                                                                                                 |  | dwg no                                                                                                                 |  |
|                                       |  | 61083                                                                                                                                  |  | rev                                                                                                                                      |  | AG                                                                                                                     |  |
|                                       |  | sheet 1 of 6                                                                                                                           |  |                                                                                                                                          |  |                                                                                                                        |  |
| PDS: Rev :AG                          |  | STATUS:Released                                                                                                                        |  | Printed: Nov 05, 2014                                                                                                                    |  |                                                                                                                        |  |

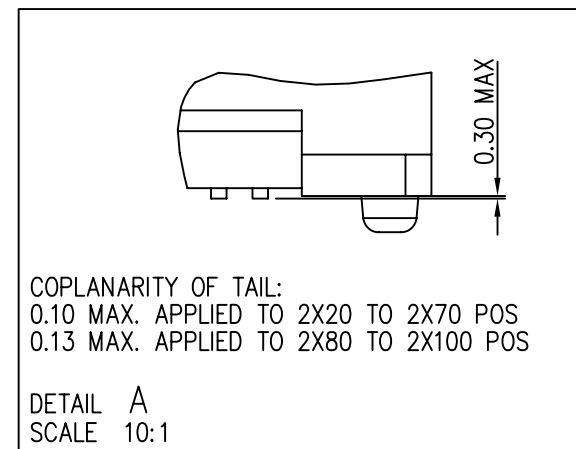
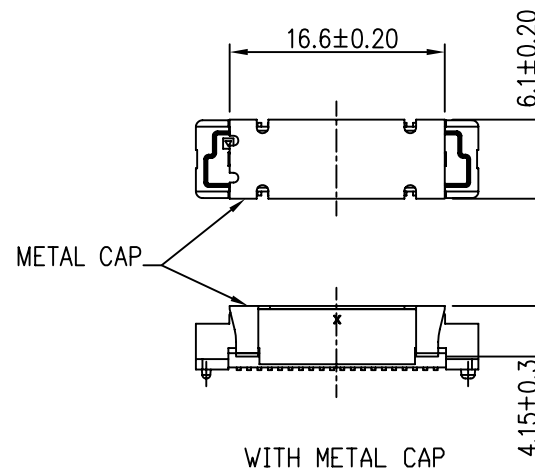
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| PRODUCT NO.  | NO. OF POSITION | DIMENSION |      |      |
|--------------|-----------------|-----------|------|------|
|              |                 | A         | B    | C    |
| 61083-021*** | 2X10            | 7.2       | 13.8 | 12.2 |
| 61083-041*** | 2X20            | 15.2      | 21.8 | 20.2 |
| 61083-061*** | 2X30            | 23.2      | 29.8 | 28.2 |
| 61083-081*** | 2X40            | 31.2      | 37.8 | 36.2 |
| 61083-101*** | 2X50            | 39.2      | 45.8 | 44.2 |
| 61083-121*** | 2X60            | 47.2      | 53.8 | 52.2 |
| 61083-141*** | 2X70            | 55.2      | 61.8 | 60.2 |
| 61083-161*** | 2X80            | 63.2      | 69.8 | 68.2 |
| 61083-181*** | 2X90            | 71.2      | 77.8 | 76.2 |
| 61083-201*** | 2X100           | 79.2      | 85.8 | 84.2 |

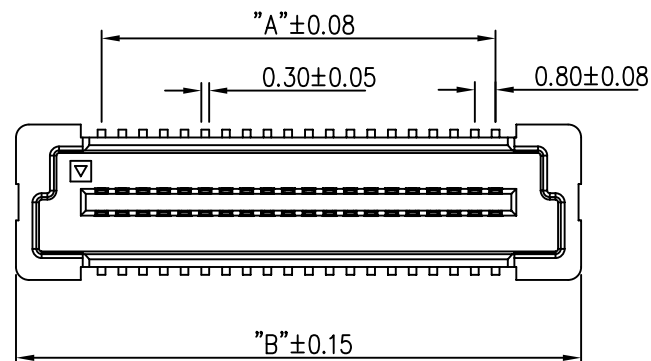


A

A

B

B



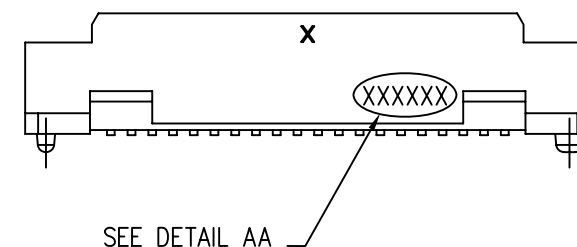
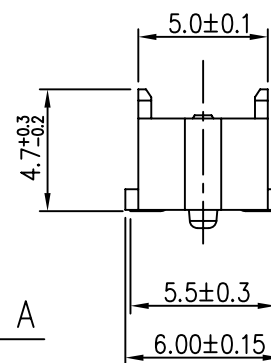
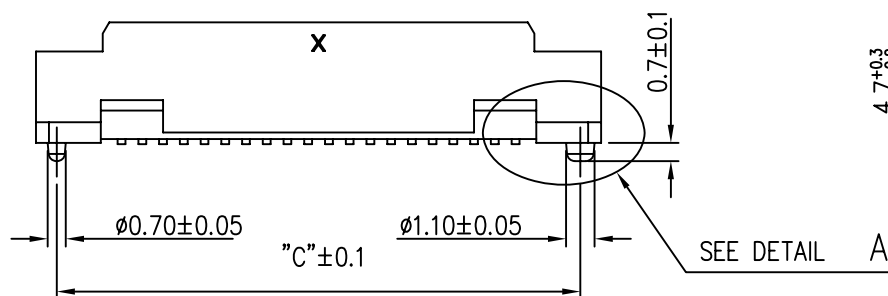
DATE CODE: XXXXXX

DAY(01~31)  
MONTH(01~12)  
YEAR(00~99)

DETAIL AA

C

C



PLUG 1

|                                                                                       |            |            |                                                                                       |                                                                                       |                                 |           |              |     |
|---------------------------------------------------------------------------------------|------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|-----------|--------------|-----|
| dr                                                                                    | Guomin Sun | 2014-10-21 |  |  | size                            | A3        | scale        | 3:1 |
| eng                                                                                   | Guomin Sun | 2014-10-21 |                                                                                       |                                                                                       | ecn no                          |           |              |     |
| chr                                                                                   | ZK Hu      | 2014-10-21 |                                                                                       |                                                                                       |                                 |           |              |     |
| appr                                                                                  | Feagle Pan | 2014-10-21 | product family                                                                        | Bergstak                                                                              | -                               | rel level | RELEASE      |     |
|  |            | title      |                                                                                       |                                                                                       | BERGSTAK 0.8mm BTB<br>PLUG ASSY |           | rev          |     |
| www.fci.com                                                                           |            | cat. no.   | -                                                                                     | Product - Customer drw                                                                |                                 |           | sheet 2 of 6 |     |
|                                                                                       |            |            |                                                                                       |                                                                                       | dwg no                          |           | 61083        |     |
|                                                                                       |            |            |                                                                                       |                                                                                       |                                 |           | AG           |     |

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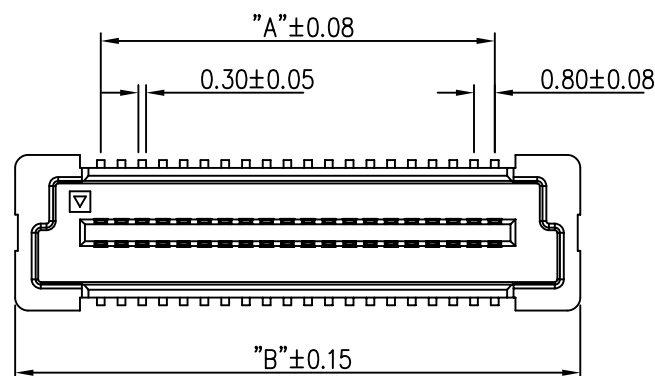
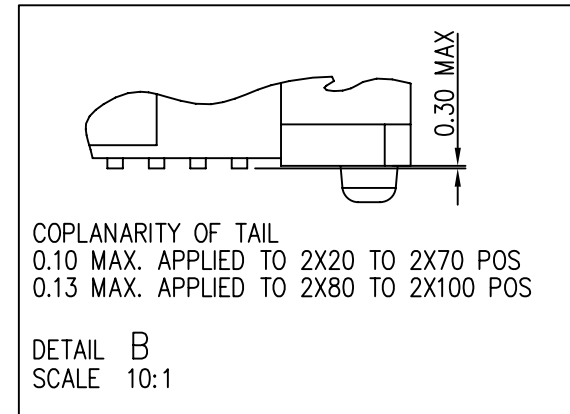
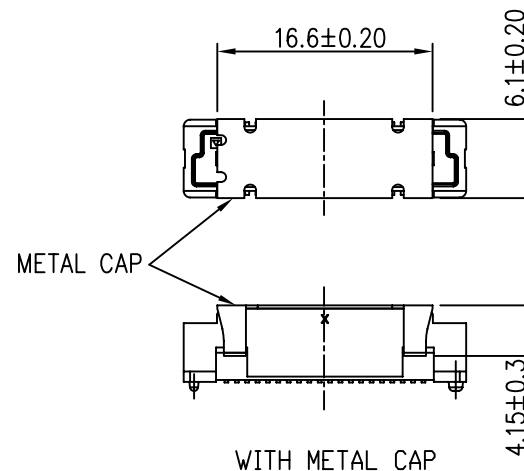
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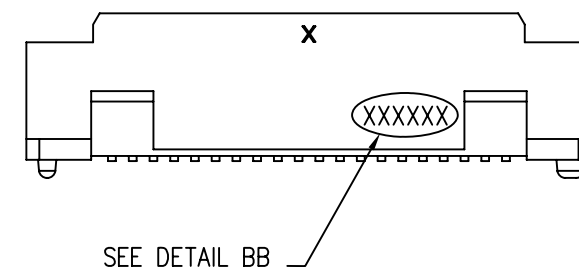
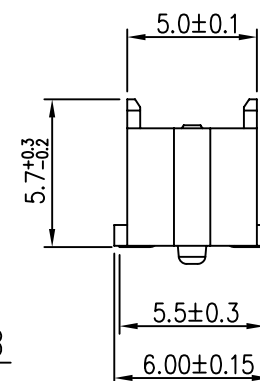
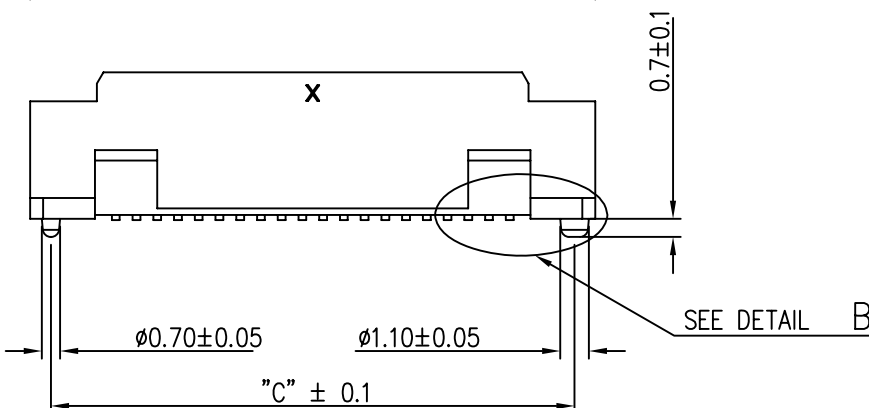
| PRODUCT NO.  | NO. OF POSITION | DIMENSION |      |      |
|--------------|-----------------|-----------|------|------|
|              |                 | A         | B    | C    |
| 61083-042*** | 2X20            | 15.2      | 21.8 | 20.2 |
| 61083-062*** | 2X30            | 23.2      | 29.8 | 28.2 |
| 61083-082*** | 2X40            | 31.2      | 37.8 | 36.2 |
| 61083-102*** | 2X50            | 39.2      | 45.8 | 44.2 |
| 61083-122*** | 2X60            | 47.2      | 53.8 | 52.2 |
| 61083-142*** | 2X70            | 55.2      | 61.8 | 60.2 |
| 61083-162*** | 2X80            | 63.2      | 69.8 | 68.2 |
| 61083-182*** | 2X90            | 71.2      | 77.8 | 76.2 |
| 61083-202*** | 2X100           | 79.2      | 85.8 | 84.2 |



DATE CODE: XXXXXX

DAY(01~31)  
MONTH(01~12)  
YEAR(00~99)

DETAIL BB



PLUG 2

|                                                                                                  |            |            |                                                                                                                        |                                                                                                                |                    |           |              |       |
|--------------------------------------------------------------------------------------------------|------------|------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------|-----------|--------------|-------|
| dr                                                                                               | Guomin Sun | 2014-10-21 | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size               | A3        | scale        | 3:1   |
| eng                                                                                              | Guomin Sun | 2014-10-21 |                                                                                                                        |                                                                                                                | ecn no             | RELEASE   |              |       |
| chr                                                                                              | ZK Hu      | 2014-10-21 |                                                                                                                        |                                                                                                                |                    |           |              |       |
| appr                                                                                             | Feagle Pan | 2014-10-21 | product family                                                                                                         | Bergstak                                                                                                       | -                  | rel level |              |       |
| <div></div> |            | title      |                                                                                                                        |                                                                                                                | BERGSTAK 0.8mm BTB |           | dwg no       | 61083 |
|                                                                                                  |            | PLUG ASSY  |                                                                                                                        |                                                                                                                |                    |           | rev          | A0    |
| www.fci.com                                                                                      | cat. no.   | -          | Product - Customer drw                                                                                                 |                                                                                                                |                    |           | sheet 3 of 6 |       |

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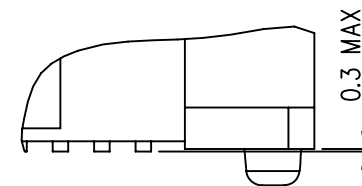
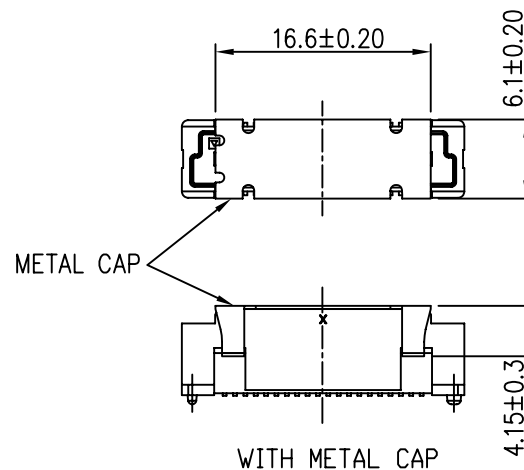
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| PRODUCT NO.  | NO. OF POSITION | DIMENSION |      |      |
|--------------|-----------------|-----------|------|------|
|              |                 | A         | B    | C    |
| 61083-043*** | 2X20            | 15.2      | 21.8 | 20.2 |
| 61083-063*** | 2X30            | 23.2      | 29.8 | 28.2 |
| 61083-083*** | 2X40            | 31.2      | 37.8 | 36.2 |
| 61083-103*** | 2X50            | 39.2      | 45.8 | 44.2 |
| 61083-123*** | 2X60            | 47.2      | 53.8 | 52.2 |
| 61083-143*** | 2X70            | 55.2      | 61.8 | 60.2 |
| 61083-163*** | 2X80            | 63.2      | 69.8 | 68.2 |
| 61083-183*** | 2X90            | 71.2      | 77.8 | 76.2 |
| 61083-203*** | 2X100           | 79.2      | 85.8 | 84.2 |



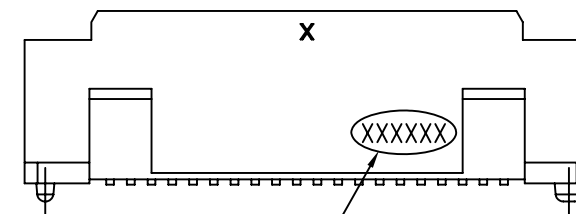
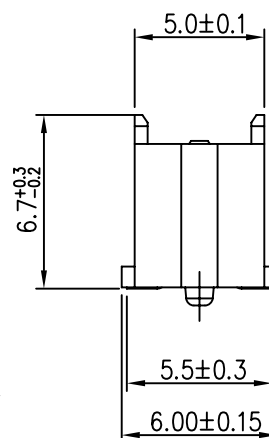
COPLANARITY OF TAIL:  
0.10 MAX. APPLIED TO 2X20 TO 2X70 POS  
0.13 MAX. APPLIED TO 2X80 TO 2X100 POS

DETAIL C  
SCALE 10:1

DATE CODE: XXXXXX

DAY(01~31)  
MONTH(01~12)  
YEAR(00~99)

DETAIL CC



SEE DETAIL CC

PLUG 3

|             |            |                        |                |          |                    |    |       |         |
|-------------|------------|------------------------|----------------|----------|--------------------|----|-------|---------|
| dr          | Guomin Sun | 2014-10-21             | projection     | mm       | size               | A3 | scale | 3:1     |
| eng         | Guomin Sun | 2014-10-21             |                |          | ecn no             |    |       |         |
| chr         | ZK Hu      | 2014-10-21             |                |          | rel level          |    |       |         |
| appr        | Feagle Pan | 2014-10-21             | product family | Bergstak |                    |    |       | RELEASE |
| FCi         |            | title                  |                |          | BERGSTAK 0.8mm BTB |    | rev   |         |
| www.fci.com |            | cat. no.               |                |          | 61083              |    | AG    |         |
|             |            | Product - Customer drw |                |          | sheet 4 of 6       |    |       |         |

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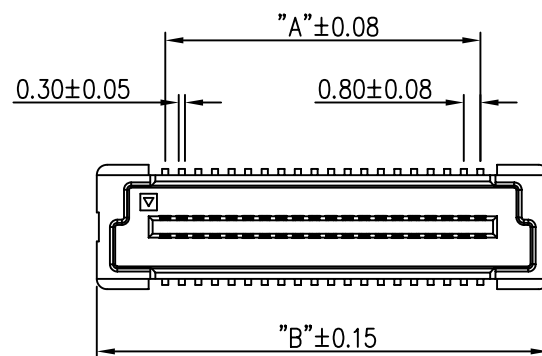
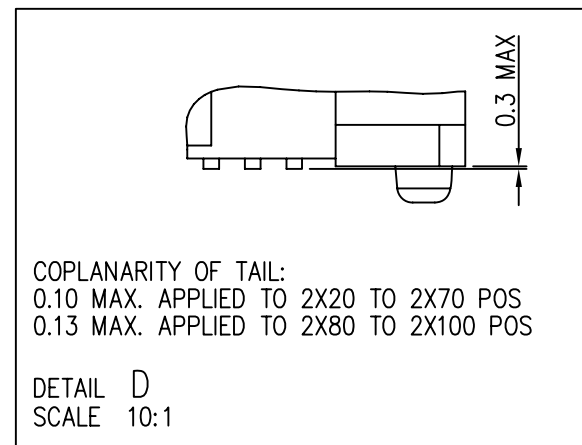
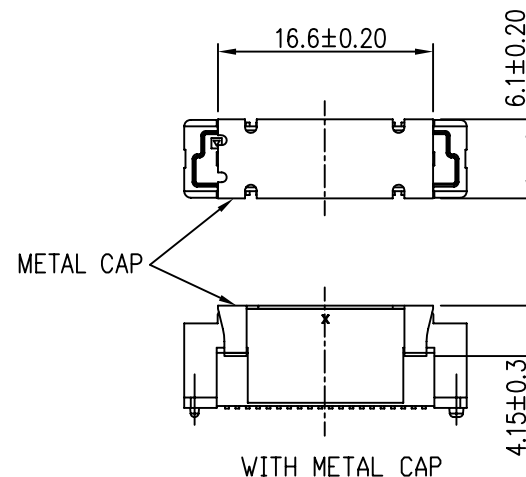
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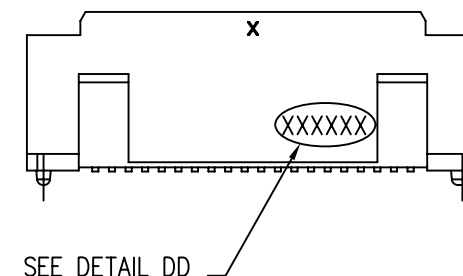
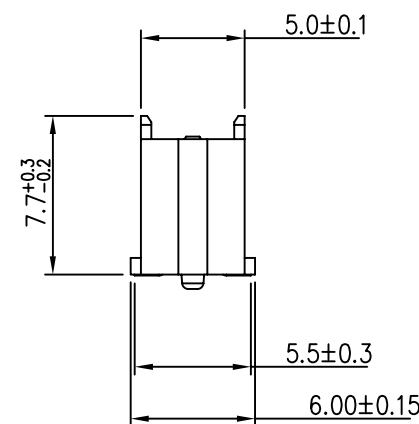
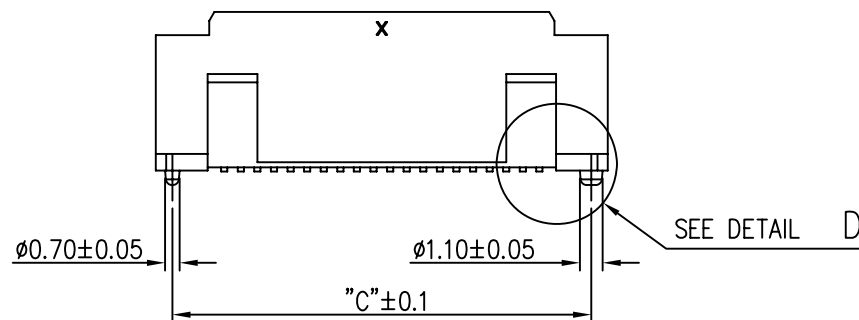
| PRODUCT NO.  | NO. OF POSITION | DIMENSION |      |      |
|--------------|-----------------|-----------|------|------|
|              |                 | A         | B    | C    |
| 61083-044*** | 2X20            | 15.2      | 21.8 | 20.2 |
| 61083-064*** | 2X30            | 23.2      | 29.8 | 28.2 |
| 61083-084*** | 2X40            | 31.2      | 37.8 | 36.2 |
| 61083-104*** | 2X50            | 39.2      | 45.8 | 44.2 |
| 61083-124*** | 2X60            | 47.2      | 53.8 | 52.2 |
| 61083-144*** | 2X70            | 55.2      | 61.8 | 60.2 |
| 61083-164*** | 2X80            | 63.2      | 69.8 | 68.2 |
| 61083-184*** | 2X90            | 71.2      | 77.8 | 76.2 |
| 61083-204*** | 2X100           | 79.2      | 85.8 | 84.2 |



DATE CODE: XXXXXX

DAY<01~31>  
MONTH<01~12>  
YEAR<00~99>

DETAIL DD



PLUG 4

|             |            |            |                |                    |           |                        |       |              |
|-------------|------------|------------|----------------|--------------------|-----------|------------------------|-------|--------------|
| dr          | Guomin Sun | 2014-10-21 | projection     | mm                 | size      | A3                     | scale | 3:1          |
| eng         | Guomin Sun | 2014-10-21 |                |                    | ecm no    |                        |       |              |
| chr         | ZK Hu      | 2014-10-21 |                |                    | rel level |                        |       |              |
| appr        | Feagle Pan | 2014-10-21 | product family | Bergstak           |           |                        |       | RELEASE      |
| FCi         |            | title      |                | BERGSTAK 0.8mm BTB |           | dwg no                 |       | 61083        |
| www.fci.com |            | cat. no.   |                | -                  |           | Product - Customer drw |       | sheet 5 of 6 |
|             |            |            |                |                    |           |                        |       | rev          |
|             |            |            |                |                    |           |                        |       | AG           |

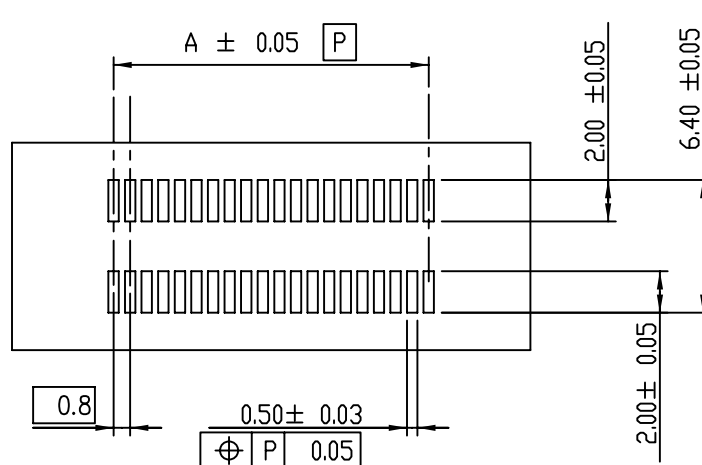
1

2

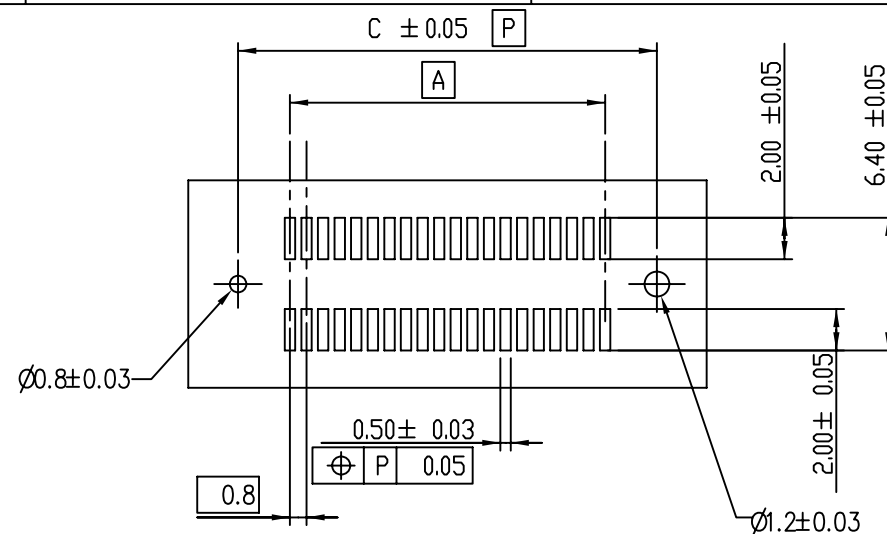
3

4

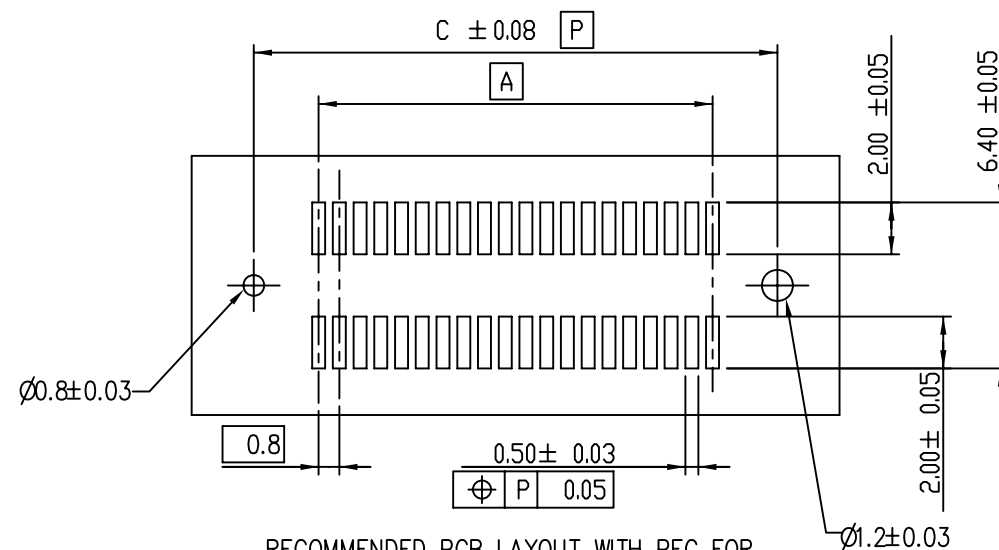
FOR PLUG 1/2/3/4



RECOMMENDED PCB LAYOUT WITHOUT PEG AND HOLDDOWN FOR  
NO. OF POS 2X20, 2X30, 2X40, 2X50 2X60



RECOMMENDED PCB LAYOUT WITH PEG FOR  
NO. OF POS 2X20, 2X30, 2X40, 2X50 2X60



RECOMMENDED PCB LAYOUT WITH PEG FOR  
NO. OF POS 2X70, 2X80, 2X90, 2X100

|                                                                                                  |            |            |                                                                                                                        |                                                                                                                |                    |         |              |       |
|--------------------------------------------------------------------------------------------------|------------|------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------|---------|--------------|-------|
| dr                                                                                               | Guomin Sun | 2014-10-21 | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size               | A3      | scale        | 3:1   |
| eng                                                                                              | Guomin Sun | 2014-10-21 |                                                                                                                        |                                                                                                                | ecn no             |         |              |       |
| chr                                                                                              | ZK Hu      | 2014-10-21 |                                                                                                                        |                                                                                                                | rel level          | RELEASE |              |       |
| appr                                                                                             | Feagle Pan | 2014-10-21 | product family                                                                                                         | Bergstak                                                                                                       | -                  |         |              |       |
| <div></div> |            | title      |                                                                                                                        |                                                                                                                | BERGSTAK 0.8mm BTB |         | dwg no       | 61083 |
|                                                                                                  |            |            |                                                                                                                        |                                                                                                                | PLUG ASSY          |         | rev          | A0    |
| www.fci.com                                                                                      |            | cat. no.   | -                                                                                                                      | Product - Customer drw                                                                                         |                    |         | sheet 6 of 6 |       |