

61083- AA B C D E FF

| AA | NO. OF POSITIONS |
|----|------------------|
| 04 | 2X20             |
| 06 | 2X30             |
| 08 | 2X40             |
| 10 | 2X50             |
| 12 | 2X60             |
| 14 | 2X70             |
| 16 | 2X80             |
| 18 | 2X90             |
| 20 | 2X100            |

| B                                                   |   |   |   |
|-----------------------------------------------------|---|---|---|
| 1                                                   | 2 | 3 | 4 |
|                                                     |   |   |   |
| FOR COMBINATION OF MATED HEIGHT, SEE DWG. NO. 61082 |   |   |   |

| 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) |

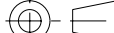


| D | POLARIZATION PEG | HOLD DOWN |
|---|------------------|-----------|
| 0 | YES              | NO        |
| 2 | NO               | NO        |

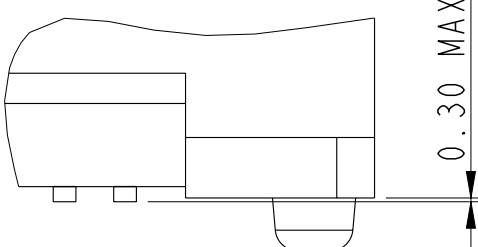
NOTE:

- MATERIAL:  
HOUSING: G.F. LCP, UL94-V0  
TERMINAL: BRASS
- PLATING:  
AS SHOWN IN TABLE.
- SEE GS-12-547 FOR PRODUCT SPEC.
- SEE GS-14-551 AND GS-14-816 FOR PACKAGING SPEC.
- PACKAGING OPTION 2: NOT ALL SIZES ARE AVAILABLE. CHECK WITH FACTORY.
- THIS PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- THE HOUSING WILL WITHSTAND EXPOSURE UP TO 260° PEAK TEMPERATURE FOR 30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- PLATING OPTION "4" IS LEADFREE ALTERNATIVE FOR OPTION "0", AND OPTION "6" IS LEADFREE ALTERNATIVE FOR OPTION "1".
- HIGH PRECISION COPLANARITY IS AVAILABLE FOR 2X80 TO 2X100 POS, ALL HEIGHTS. PLS REFER TO PRINT 10069525.
- A SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

| C | PLATING                                                                                                                                           | FF                    |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 0 | GOLD 0.2um MIN. / TIN LEAD SOLDER TAIL<br>NICKEL UNDERPLATE OVERALL 1.27um MIN                                                                    | NONE                  |
| 1 | GOLD FLASH (0.1um MIN) OVER<br>PALLADIUM-NICKEL 0.76um MIN /TIN LEAD SOLDER<br>NICKEL UNDERPLATE OVERALL 1.27um.                                  | NONE                  |
| 4 | GOLD 0.2um MIN / PURE MATT TIN SOLDER TAIL<br>NICKEL UNDERPLATE OVERALL 1.27um.<br>(LEADFREE PLATING)                                             | LF<br>(NOTE 6<br>& 8) |
| 5 | GOLD 0.38um MIN /PURE MATT TIN SOLDER TAIL<br>NICKEL UNDERPLATE OVERALL 1.27UM MIN<br>(LEADFREE PLATING)                                          | LF<br>(NOTE 6)        |
| 6 | GOLD FLASH (0.1um MIN) OVER PALLADIUM-NICKEL<br>0.76um MIN / PURE MATT TIN SOLDER TAIL<br>NICKEL UNDERPLATE OVERALL 1.27um.<br>(LEADFREE PLATING) | LF<br>(NOTE 6<br>& 8) |

|                                                                                               |                                       |         |       |                                                                                       |            |             |            |                                                                                       |                    |                                                                                       |        |          |              |     |                |
|-----------------------------------------------------------------------------------------------|---------------------------------------|---------|-------|---------------------------------------------------------------------------------------|------------|-------------|------------|---------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|--------|----------|--------------|-----|----------------|
| spec ref                                                                                      |                                       |         |       | dr                                                                                    | MAGGIE WU  | 1999-03-24  | projection |  | mm                 |  | size   | A3       | scale        | 3:1 |                |
| tolerance std                                                                                 | TOLERANCES UNLESS OTHERWISE SPECIFIED |         |       | eng                                                                                   | YU WEN CHU | 1999-03-24  |            |                                                                                       |                    |                                                                                       | ecn no | S10-0210 |              |     |                |
|                                                                                               |                                       |         |       | chr                                                                                   | M CHEONG   | 2010-09-29  |            |                                                                                       |                    |                                                                                       |        |          |              |     |                |
|                                                                                               |                                       |         |       | appr                                                                                  | JOEY NG    | 2010-09-29  |            |                                                                                       |                    |                                                                                       |        |          |              |     | product family |
|                                                                                               |                                       |         |       |                                                                                       |            |             |            |                                                                                       |                    |                                                                                       |        |          |              |     |                |
| surface  | linear                                | 0.X     | ±0.2  |  | title      |             |            |                                                                                       | BERGSTAK 0.8mm BTB |                                                                                       | dwg no | 61083    |              | rev |                |
|                                                                                               |                                       | 0.XX    | ±0.15 |                                                                                       |            |             |            |                                                                                       |                    |                                                                                       |        |          |              |     |                |
|                                                                                               |                                       | 0.XXX   | ±0.10 |                                                                                       |            |             |            |                                                                                       |                    |                                                                                       |        |          |              |     |                |
|                                                                                               | ISO 1302                              | angular | 0°    |                                                                                       | ±2°        | www.fci.com | cat. no.   | -                                                                                     | CUSTOMER           |                                                                                       |        |          | sheet 1 of 6 |     |                |

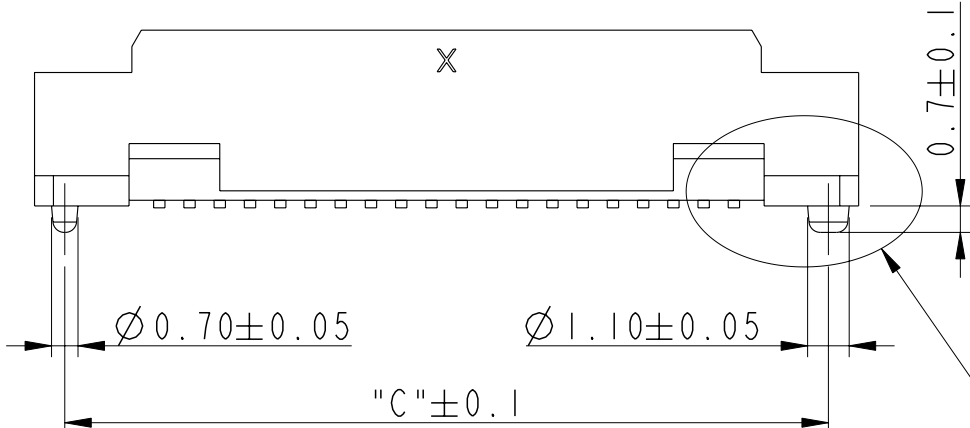
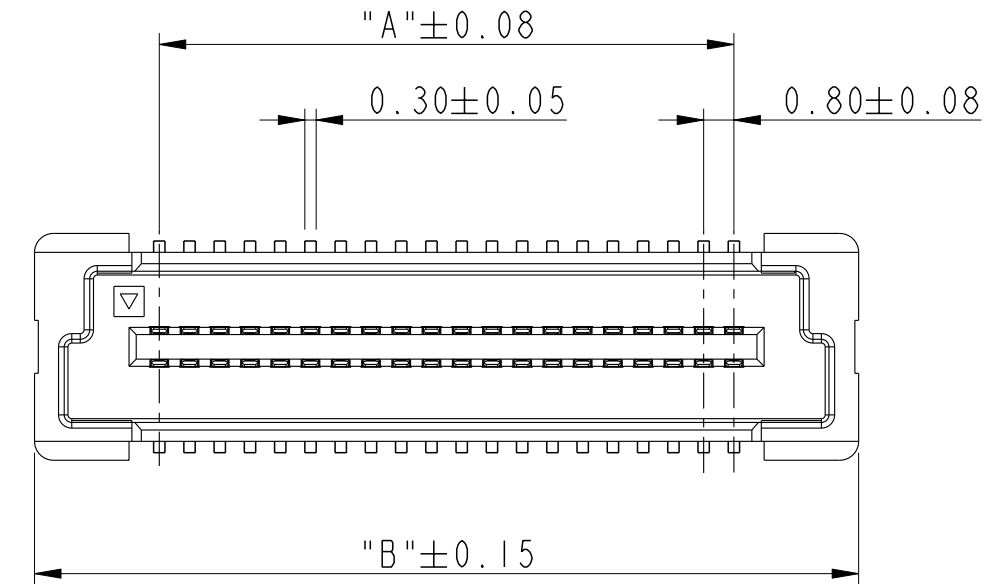
| PRODUCT NO.  | NO. OF POSITION | DIMENSION |      |      |
|--------------|-----------------|-----------|------|------|
|              |                 | A         | B    | C    |
| 61083-041*** | 2X20            | 15.2      | 21.8 | 20.2 |
| 61083-061*** | 2X30            | 23.2      | 29.8 | 28.2 |
| 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 |



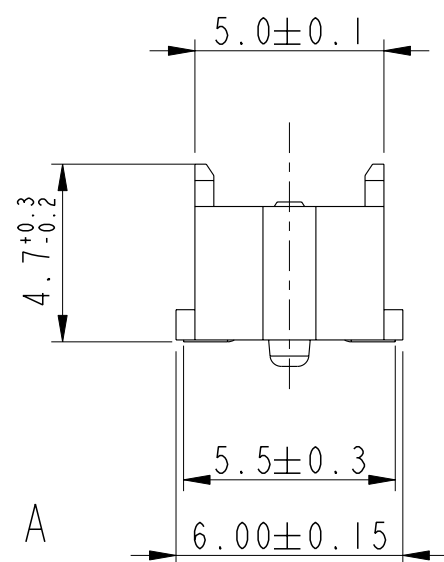
COPLANARITY OF TAIL:  
0.1 MAX. APPLIED TO 2X20 TO 2X100 POS

DETAIL A  
SCALE 10:1

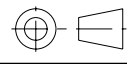
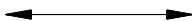
AC



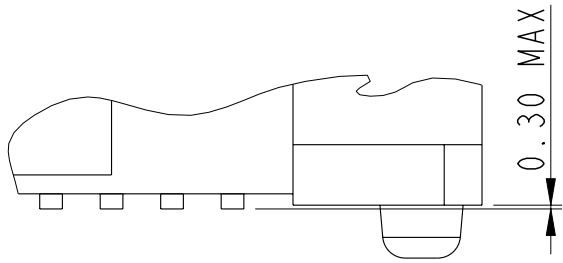
SEE DETAIL A



PLUG I

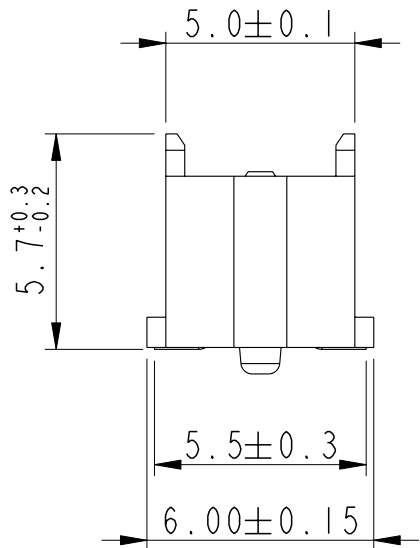
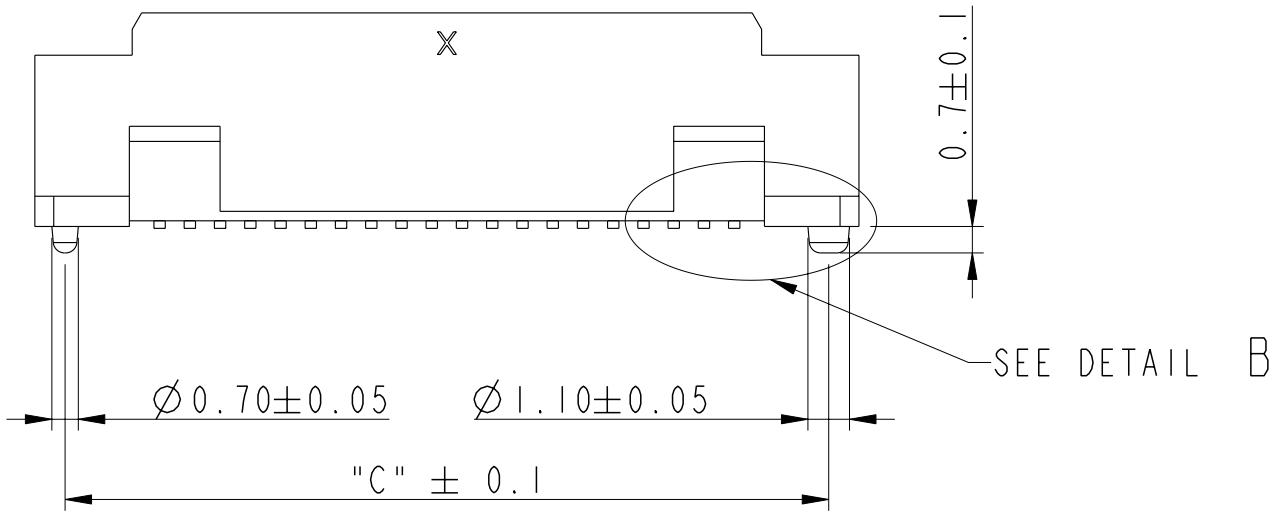
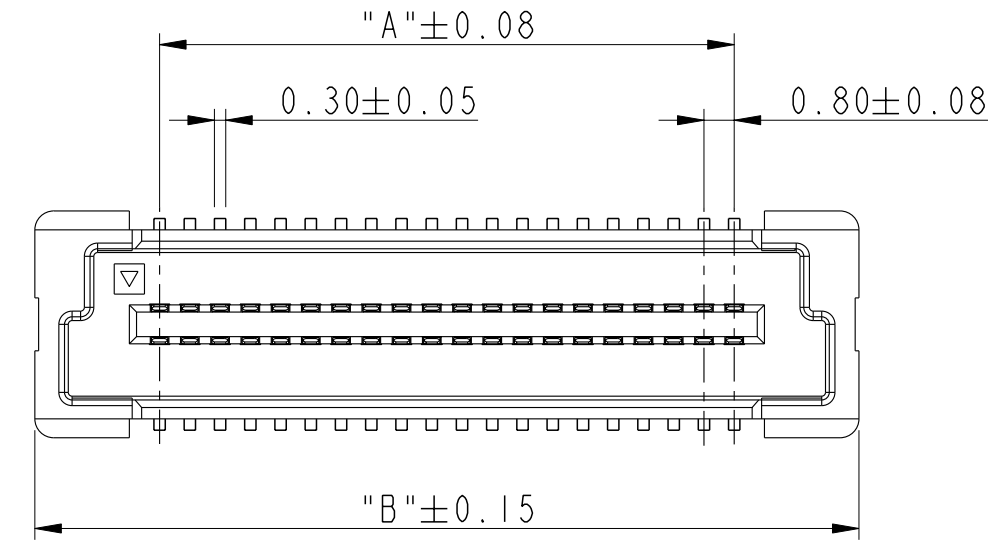
|                                                                                                                                         |                                       |       |       |                                                                                       |                                       |            |                                                                                                             |                                                                                                     |            |                |              |           |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------|-------|---------------------------------------------------------------------------------------|---------------------------------------|------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------|----------------|--------------|-----------|
| spec ref                                                                                                                                |                                       |       |       | dr                                                                                    | MAGGIE WU                             | 1999-03-24 | <div>projection</div>  | <div>mm</div>  | size       | A3             | scale        | 3:1       |
| tolerance std<br>ISO 406<br>ISO 1101                                                                                                    | TOLERANCES UNLESS OTHERWISE SPECIFIED |       |       | eng                                                                                   | YU WEN CHU                            | 1999-03-24 |                                                                                                             |                                                                                                     | ecn no     | S10-0210       |              |           |
|                                                                                                                                         |                                       |       |       | chr                                                                                   | M CHEONG                              | 2010-09-29 |                                                                                                             |                                                                                                     |            |                |              |           |
|                                                                                                                                         |                                       |       |       |                                                                                       |                                       |            | appr                                                                                                        | JOEY NG                                                                                             | 2010-09-29 | product family | BERGSTAK     | -         |
| <div>surface</div> <div>ISO 1302</div> <div></div> | linear                                | 0.X   | ±0.2  |  | title BERGSTAK 0.8mm BTB<br>PLUG ASSY |            |                                                                                                             |                                                                                                     | dwg no     | 61083          |              | rev<br>AC |
|                                                                                                                                         |                                       | 0.XX  | ±0.15 |                                                                                       |                                       |            |                                                                                                             |                                                                                                     |            |                |              |           |
|                                                                                                                                         |                                       | 0.XXX | ±0.10 |                                                                                       |                                       |            |                                                                                                             |                                                                                                     |            |                |              |           |
|                                                                                                                                         | angular                               | 0°    | ±2°   | www.fci.com                                                                           | cat. no.                              | -          | CUSTOMER                                                                                                    |                                                                                                     |            |                | sheet 2 of 6 |           |

| 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 |



COPLANARITY OF TAIL  
0.1 MAX. APPLIED TO 2X20 TO 2X100 POS

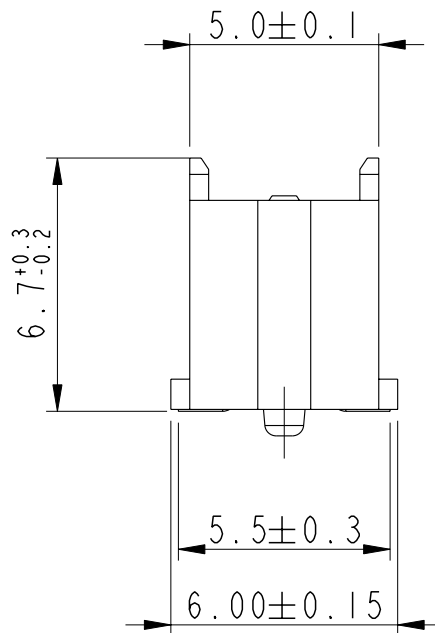
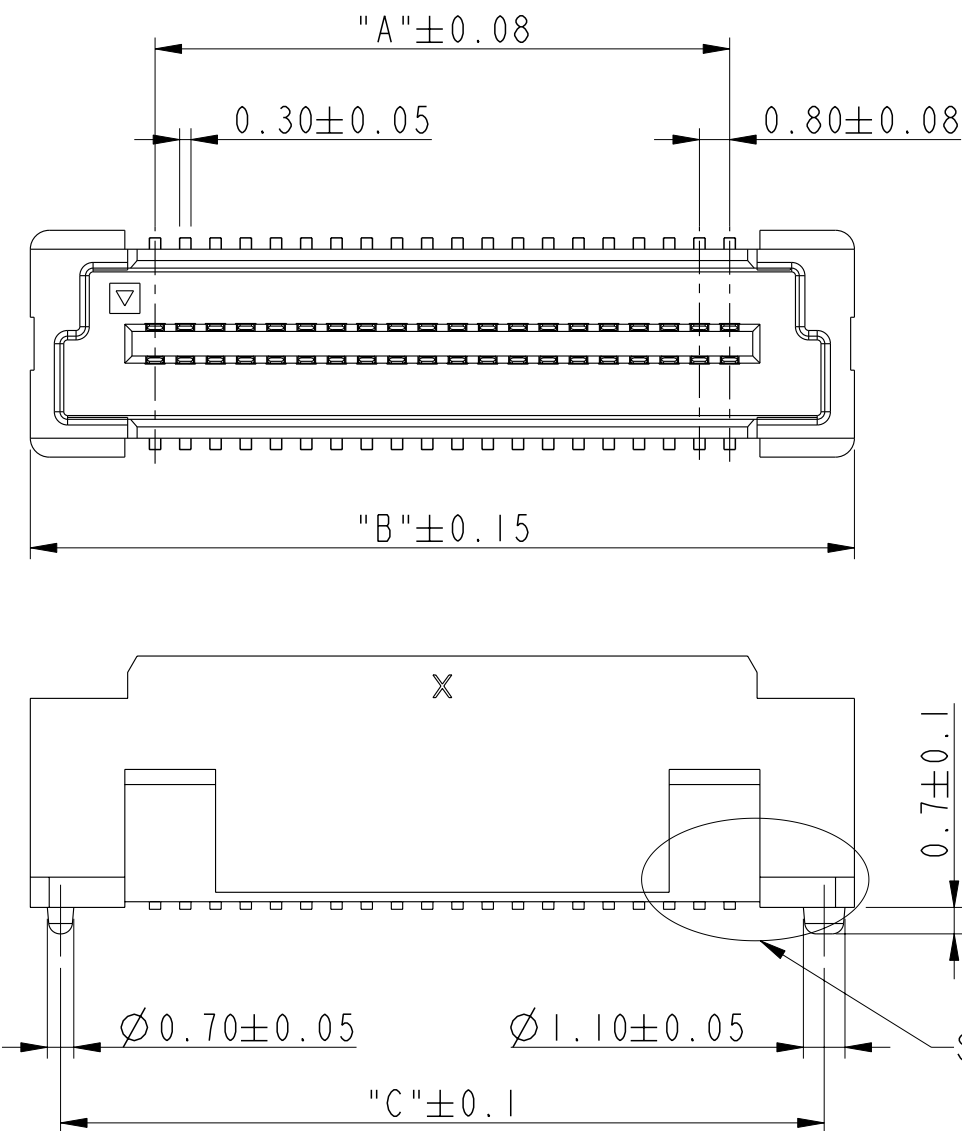
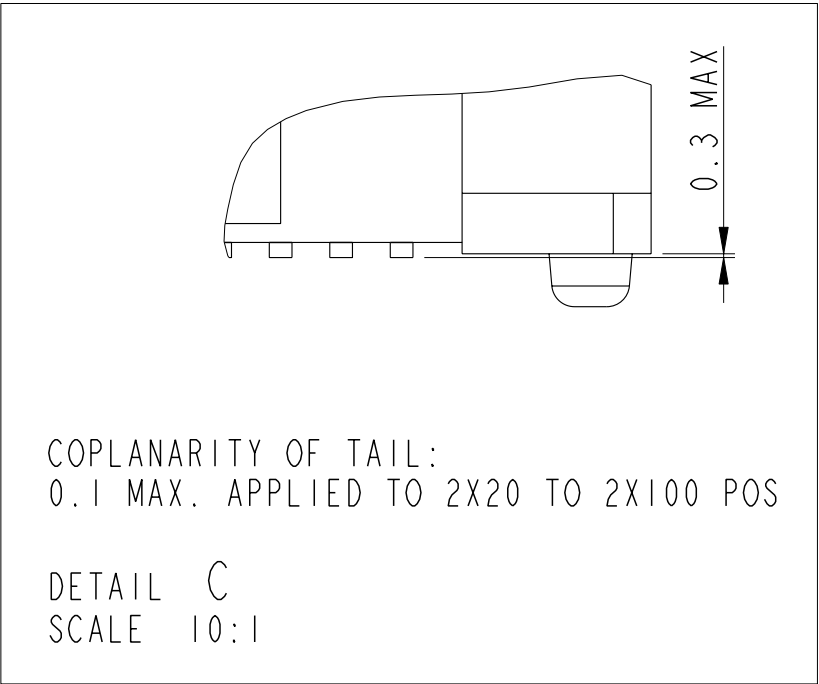
DETAIL B  
SCALE 10:1



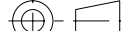
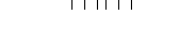
PLUG 2

|                                |                                       |                |         |            |            |                                   |                           |           |             |          |          |  |       |  |          |  |
|--------------------------------|---------------------------------------|----------------|---------|------------|------------|-----------------------------------|---------------------------|-----------|-------------|----------|----------|--|-------|--|----------|--|
| spec ref                       |                                       | dr             |         | MAGGIE WU  | 1999-03-24 | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size      | A3          | scale    | 3:1      |  |       |  |          |  |
| tolerance std                  | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng            |         | YU WEN CHU | 1999-03-24 |                                   |                           | ecn no    |             | S10-0210 |          |  |       |  |          |  |
|                                |                                       | chr            |         | M CHEONG   | 2010-09-29 |                                   |                           | rel level |             |          |          |  |       |  |          |  |
|                                |                                       | appr           |         | JOEY NG    | 2010-09-29 |                                   |                           |           |             |          |          |  |       |  |          |  |
| ISO 406                        |                                       | product family |         |            |            | BERGSTAK                          |                           | -         |             |          |          |  |       |  |          |  |
| ISO 1101                       |                                       |                |         |            |            |                                   |                           | RELEASE   |             |          |          |  |       |  |          |  |
| <div>surface</div> <div></div> | linear                                | 0.X            |         | ±0.2       |            | <div>FCi</div> <div></div>        | title                     |           |             |          | dwg no   |  | 61083 |  | rev      |  |
|                                |                                       | 0.XX           |         | ±0.15      |            |                                   |                           |           |             |          |          |  |       |  |          |  |
|                                |                                       | 0.XXX          |         | ±0.10      |            |                                   |                           |           |             |          |          |  |       |  |          |  |
|                                | ISO 1302                              |                | angular | 0°         |            |                                   | ±2°                       |           | www.fci.com |          | cat. no. |  | -     |  | CUSTOMER |  |

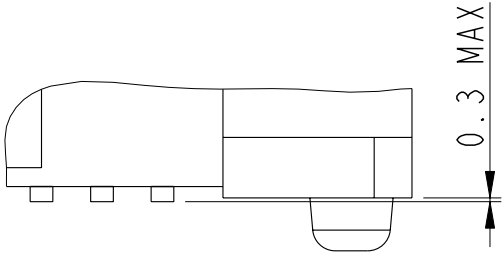
| PRODUCT NO.  | NO. OF POSITION | DIMENSION |      |      |
|--------------|-----------------|-----------|------|------|
|              |                 | A         | B    | C    |
| 61083-043*** | 2X20            | 15.2      | 21.8 | 20.2 |
| 61083-063*** | 2X30            | 23.2      | 29.8 | 28.2 |
| 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 |



PLUG 3

|                                      |                                       |         |       |                                                                                       |             |                                                                                                     |                                                                                             |            |                  |       |              |           |
|--------------------------------------|---------------------------------------|---------|-------|---------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------|------------------|-------|--------------|-----------|
| spec ref                             |                                       | dr      |       | MAGGIE WU                                                                             | 1999-03-24  | projection<br> | mm<br> | size       | A3               | scale | 3:1          |           |
| tolerance std<br>ISO 406<br>ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED |         |       | eng                                                                                   | YU WEN CHU  |                                                                                                     |                                                                                             | 1999-03-24 | ecn noS10-0210   |       |              |           |
|                                      |                                       |         |       | chr                                                                                   | M CHEONG    |                                                                                                     |                                                                                             | 2010-09-29 |                  |       |              |           |
|                                      |                                       |         | appr  | JOEY NG                                                                               | 2010-09-29  | product family                                                                                      | BERGSTAK                                                                                    | -          | rel levelRELEASE |       |              |           |
| surface<br>-<br>ISO 1302             | linear                                | 0.X     | ±0.2  |  | title       | BERGSTAK 0.8mm BTB<br>PLUG ASSY                                                                     |                                                                                             |            | dwg no           | 61083 |              | rev<br>AC |
|                                      |                                       | 0.XX    | ±0.15 |                                                                                       |             |                                                                                                     |                                                                                             |            |                  |       |              |           |
|                                      |                                       | 0.XXX   | ±0.10 |                                                                                       |             |                                                                                                     |                                                                                             |            |                  |       |              |           |
|                                      |                                       | angular | 0°    | ±2°                                                                                   | www.fci.com | cat. no.                                                                                            | -                                                                                           | CUSTOMER   |                  |       | sheet 4 of 6 |           |

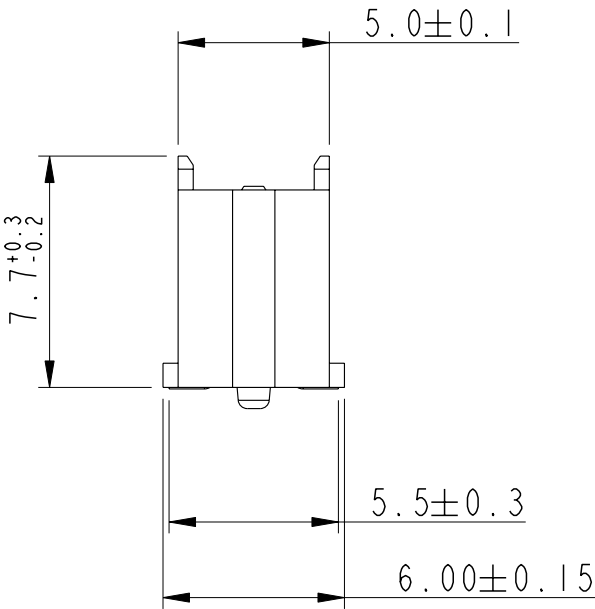
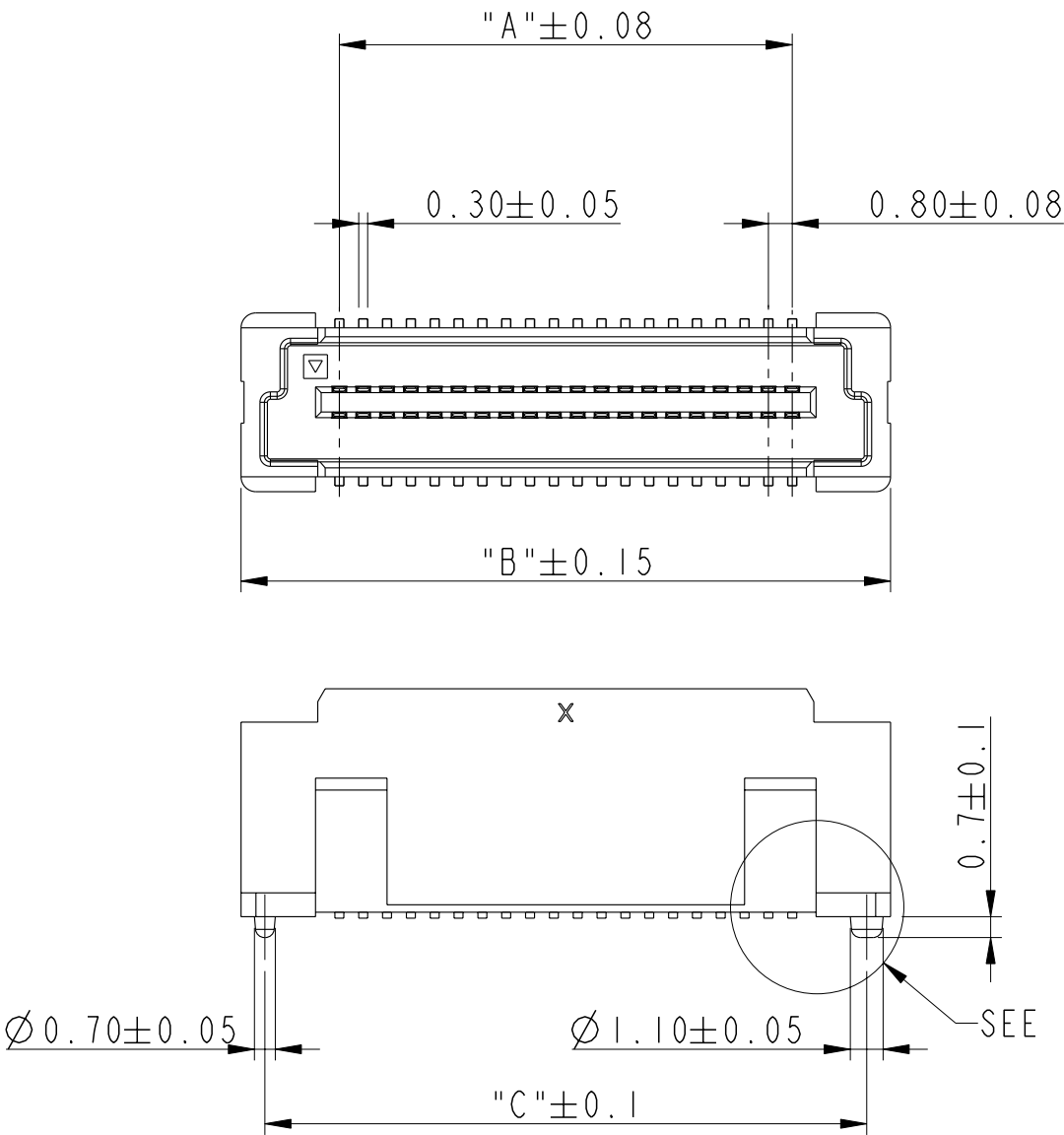
| PRODUCT NO.  | NO. OF POSITION | DIMENSION |      |      |
|--------------|-----------------|-----------|------|------|
|              |                 | A         | B    | C    |
| 61083-042*** | 2X20            | 15.2      | 21.8 | 20.2 |
| 61083-062*** | 2X30            | 23.2      | 29.8 | 28.2 |
| 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 |



COPLANARITY OF TAIL:  
0.1 MAX. APPLIED TO 2X20 TO 2X100 POS

DETAIL D  
SCALE 10:1

AC



PLUG 4

|                                                                                                                   |                                          |       |  |            |            |                                                                                                     |                                                                                             |          |          |           |                 |           |              |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------|--|------------|------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|----------|-----------|-----------------|-----------|--------------|
| spec ref                                                                                                          |                                          | dr    |  | MAGGIE WU  | 1999-03-24 | projection<br> | mm<br> | size     | A3       | scale     | 3:1             |           |              |
| tolerance std<br>ISO 406<br>ISO 1101                                                                              | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED | eng   |  | YU WEN CHU | 1999-03-24 |                                                                                                     |                                                                                             | ecn no   | S10-0210 |           |                 |           |              |
|                                                                                                                   |                                          | chr   |  | M CHEONG   | 2010-09-29 |                                                                                                     |                                                                                             |          |          |           |                 |           |              |
|                                                                                                                   |                                          | appr  |  | JOEY NG    | 2010-09-29 | product family                                                                                      |                                                                                             | BERGSTAK | -        | rel level |                 | RELEASE   |              |
| surface<br>-<br><br>ISO 1302 | linear                                   | 0.X   |  | ±0.2       |            |                | title<br>BERGSTAK 0.8mm BTB<br>PLUG ASSY                                                    |          |          |           | dwg no<br>61083 | rev<br>AC |              |
|                                                                                                                   |                                          | 0.XX  |  | ±0.15      |            |                                                                                                     |                                                                                             |          |          |           |                 |           |              |
|                                                                                                                   |                                          | 0.XXX |  | ±0.10      |            |                                                                                                     |                                                                                             |          |          |           |                 |           |              |
| angular                                                                                                           |                                          | 0°    |  | ±2°        |            | www.fci.com                                                                                         |                                                                                             | cat. no. |          | -         | CUSTOMER        |           | sheet 5 of 6 |



BERGSTAK 0.8mm BTB  
PLUG ASSY

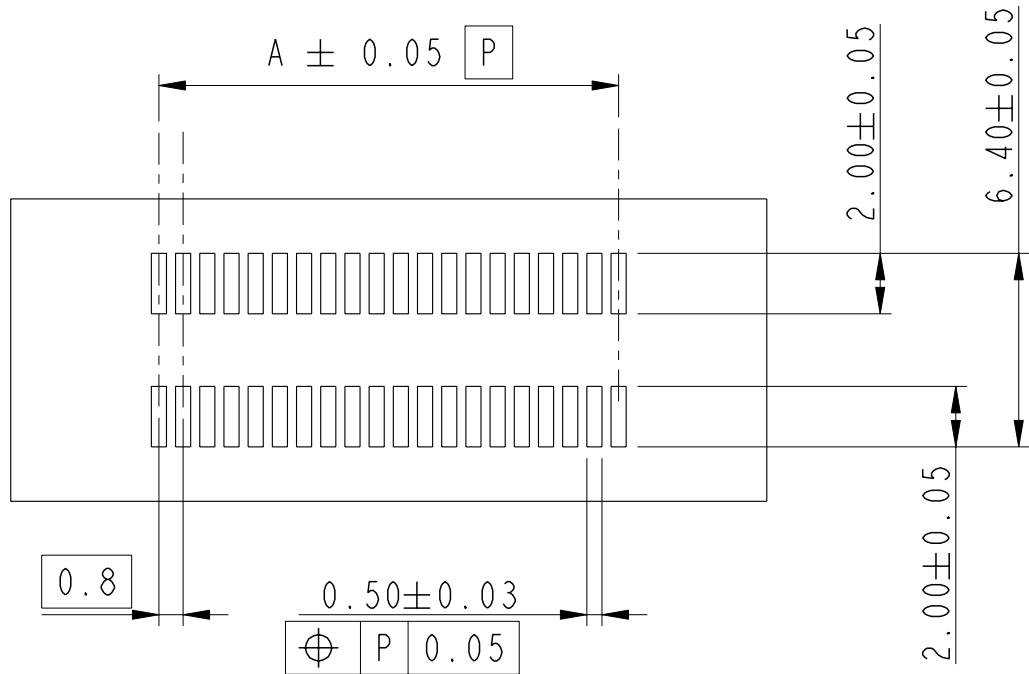
61083

AC

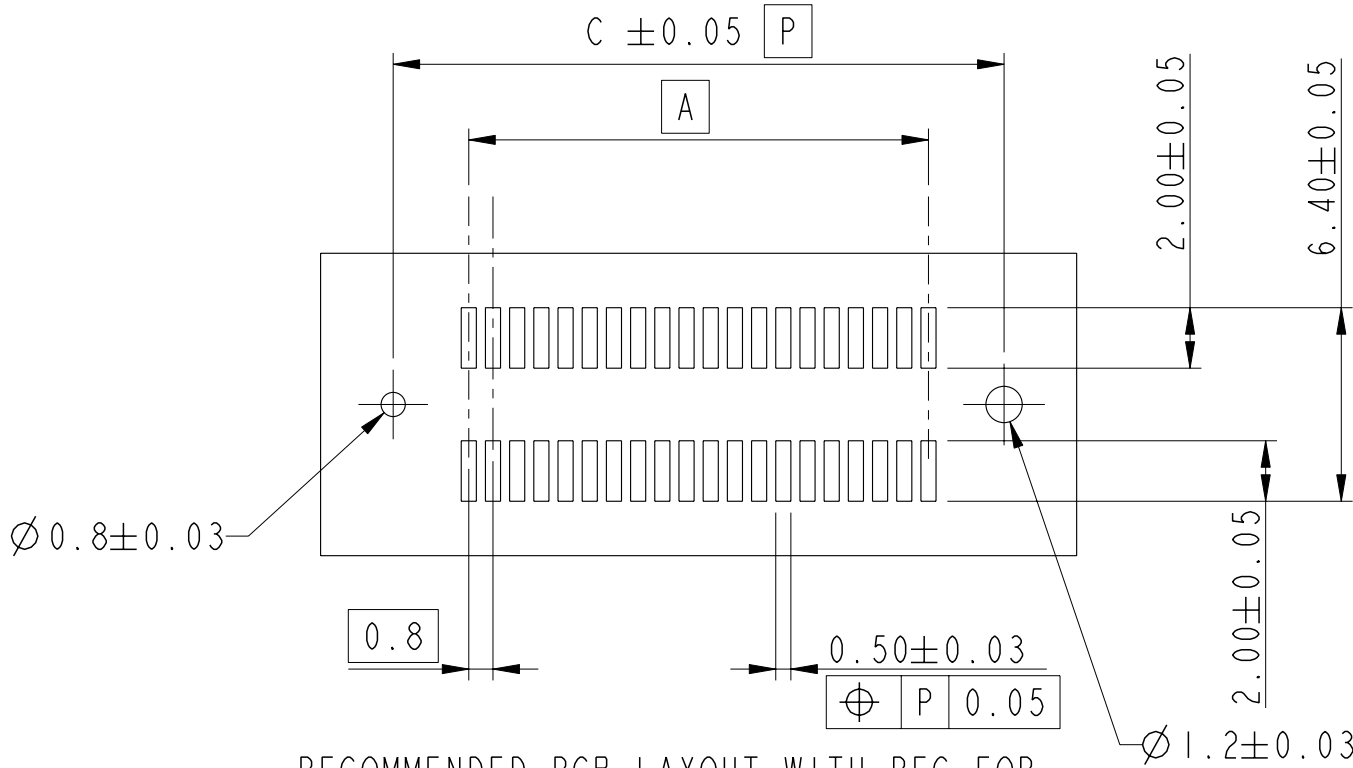


Copyright FCI.

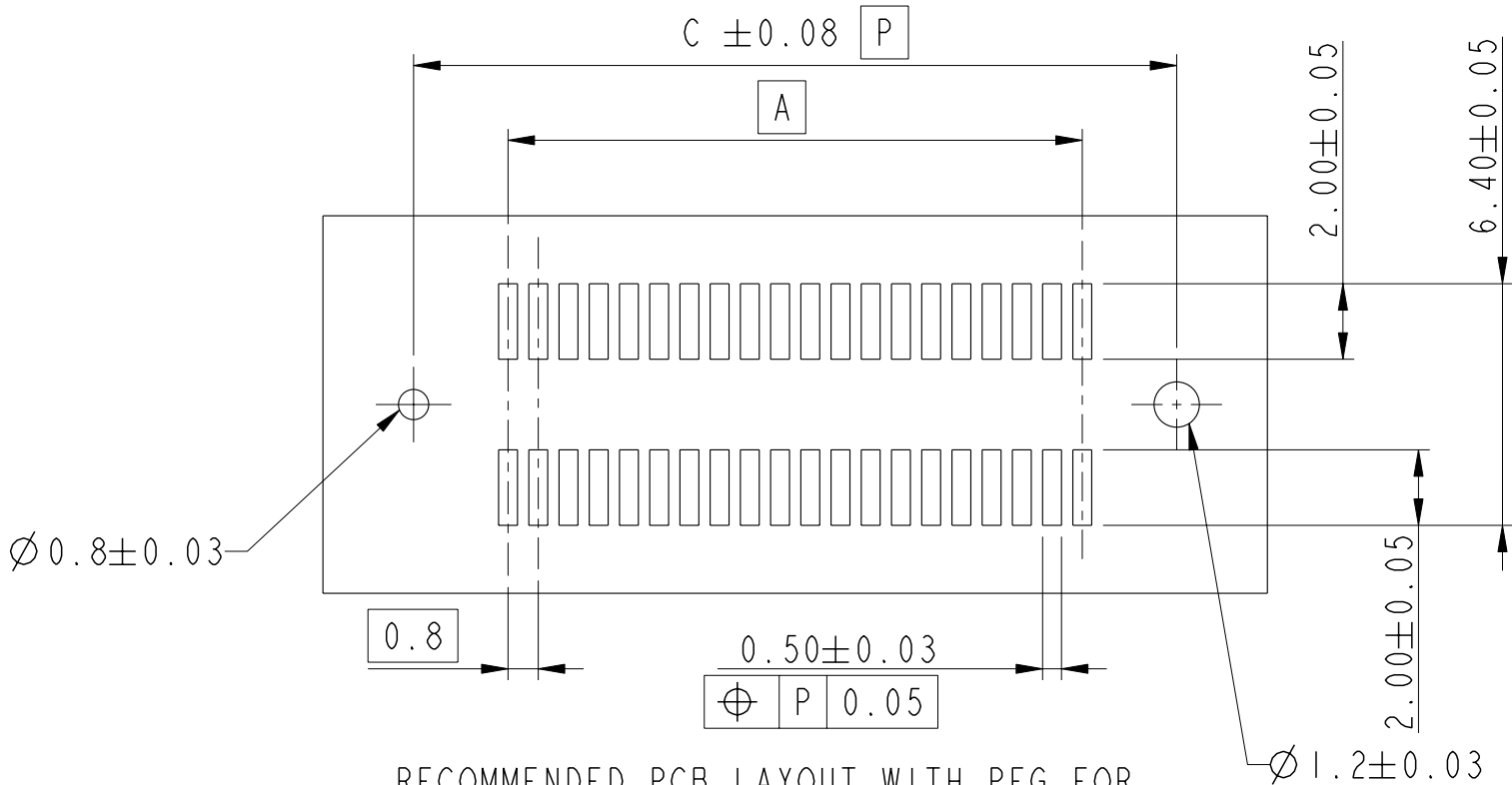
FOR PLUG 1/2/3/4



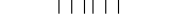
RECOMMENDED PCB LAYOUT WITHOUT PEG AND HOLDDOWN FOR NO. OF POS 2X20, 2X30, 2X40, 2X50 2X60



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

|                                                                                                              |                                       |         |       |                                                                                       |                                          |            |                                                                                                     |                                                                                             |                      |           |              |     |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------|---------|-------|---------------------------------------------------------------------------------------|------------------------------------------|------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|-----------|--------------|-----|
| spec ref                                                                                                     |                                       |         |       | dr                                                                                    | MAGGIE WU                                | 1999-03-24 | projection<br> | mm<br> | size                 | A3        | scale        | 3:1 |
| tolerance std<br>ISO 406<br>ISO 1101                                                                         | TOLERANCES UNLESS OTHERWISE SPECIFIED |         |       | eng                                                                                   | YU WEN CHU                               | 1999-03-24 |                                                                                                     |                                                                                             | ecn no               |           | S10-0210     |     |
|                                                                                                              |                                       |         |       | chr                                                                                   | M CHEONG                                 | 2010-09-29 |                                                                                                     |                                                                                             | rel level<br>RELEASE |           |              |     |
|                                                                                                              |                                       |         |       | appr                                                                                  | JOEY NG                                  | 2010-09-29 | product family                                                                                      |                                                                                             |                      |           |              |     |
| surface<br><br>ISO 1302 | linear                                | 0.X     | ±0.2  |  | title<br>BERGSTAK 0.8mm BTB<br>PLUG ASSY |            |                                                                                                     |                                                                                             | dwg no<br>61083      | rev<br>AC |              |     |
|                                                                                                              |                                       | 0.XX    | ±0.15 |                                                                                       |                                          |            |                                                                                                     |                                                                                             |                      |           |              |     |
|                                                                                                              |                                       | 0.XXX   | ±0.10 |                                                                                       |                                          |            |                                                                                                     |                                                                                             |                      |           |              |     |
|                                                                                                              |                                       | angular | 0°    | ±2°                                                                                   | www.fci.com                              | cat. no.   | -                                                                                                   | CUSTOMER                                                                                    |                      |           | sheet 6 of 6 |     |