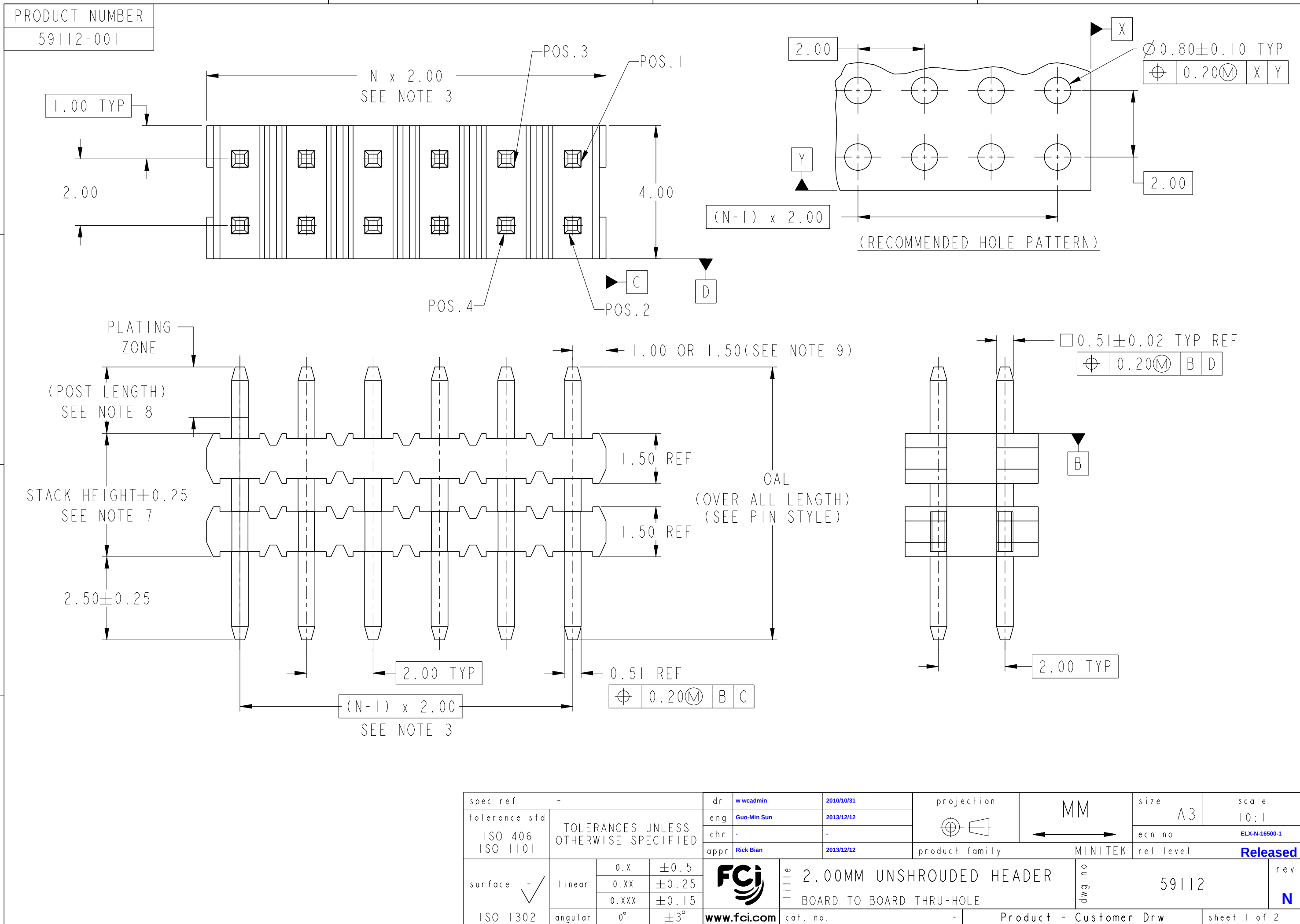


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|                            |  |                                       |  |       |  |             |            |            |  |       |  |                          |                |              |               |          |      |     |  |   |
|----------------------------|--|---------------------------------------|--|-------|--|-------------|------------|------------|--|-------|--|--------------------------|----------------|--------------|---------------|----------|------|-----|--|---|
| spec ref                   |  | -                                     |  | dr    |  | wcadmin     | 2010/10/31 | projection |  | MM    |  | size                     |                | A3           | scale         |          | 10:1 |     |  |   |
| tolerance std              |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  | eng   |  | Guo-Min Sun |            | 2013/12/12 |  |       |  |                          | ecn no         |              | ELX-N-16500-1 |          |      |     |  |   |
| ISO 406                    |  |                                       |  | chr   |  | -           |            | -          |  |       |  |                          | rel level      |              |               | Released |      |     |  |   |
| ISO 1101                   |  |                                       |  | appr  |  | Rick Bian   |            | 2013/12/12 |  |       |  |                          | product family |              | MINITEK       |          |      |     |  |   |
| surface<br>- ✓<br>ISO 1302 |  | linear                                |  | 0.X   |  | ±0.5        |            |            |  | title |  | 2.00MM UNSHROUDED HEADER |                | dwg no       |               | 59112    |      | rev |  | N |
|                            |  |                                       |  | 0.XX  |  | ±0.25       |            |            |  |       |  |                          |                |              |               |          |      |     |  |   |
|                            |  |                                       |  | 0.XXX |  | ±0.15       |            |            |  |       |  |                          |                |              |               |          |      |     |  |   |
| angular                    |  | 0°                                    |  | ±3°   |  | www.fci.com |            | cat. no.   |  | -     |  | Product - Customer Drw   |                | sheet 1 of 2 |               |          |      |     |  |   |

A

B

C

D

PRODUCT NUMBER  
59112-001

PRODUCT NUMBER DESCRIPTION :  
59112- X XX - XX - XXX XLF

PLATING  
S = 0.38um GOLD  
ON CONTACT AREA  
0.38um GOLD ON TAIL

G = 0.76um GOLD  
ON CONTACT AREA  
0.76um GOLD ON TAIL

F = 0.20um GOLD  
ON CONTACT AREA  
0.20um GOLD ON TAIL

T = 0.76um GOLD ON CONTACT AREA  
2.54um 100% MATTE TIN ON TAIL

K = 0.76um GXT ON CONTACT AREA  
2.54um 100% MATTE TIN ON TAIL

R = 0.38um GXT ON CONTACT AREA  
2.54um 100% MATTE TIN ON TAIL

LEAD FREE (SEE NOTE 11)  
RETENTION (SEE NOTES 6 & 10)  
R: RETENTIVE LEG  
STACKER HEIGHT (SEE NOTE 7)  
PACKAGING: - = BAGS  
(SEE NOTE 5) U = TUBES  
P = TUBE WITH PICK-UP CAP  
A = TAPE & REEL WITH PICK-UP CAP  
POSITIONS PER ROW = "N"  
(02 TO 25)  
OMIT FROM PRODUCT NUMBER FOR  
LEAD FREE WITH RETENTIVE LEG PRODUCT

| PIN STYLE | OAL  |
|-----------|------|
| 22        | 08.2 |
| 24        | 09.6 |
| 26        | 10.2 |
| 28        | 11.8 |
| 30        | 13.5 |
| 32        | 14.1 |
| 34        | 15.6 |
| 36        | 17.1 |
| 38        | 19.1 |
| 40        | 21.1 |

- NOTES:
- MATERIAL HOUSING: HIGH TEMPERATURE THERMOPLASTIC  
UL 94V-0, COLOR BLACK
  - MATERIAL TERMINAL: COPPER ALLOY
  - TO DETERMINE DIMENSIONS:  
N=NUMBER OF POSITIONS PER ROW  
EX.: 10 POS., N x 2.00 = 20.00 TOTAL POSITIONS
  - 0.9kg MIN. PIN RETENTION IN EITHER DIRECTION.
  - PACKAGING;  
(A) STANDARD PACKAGING: IN POLY BAGS.  
(B) SPECIAL PACKAGING: IN TUBE OR TAPE AND REEL.  
FOR TUBE AN OPTIONAL PICK-UP CAP IS PROVIDED AT  
THE CENTER OF THE PRODUCT FOR PICK AND PLACE APPLICATIONS.  
PICK-UP CAP IS STANDARD IN TAPE AND REEL.  
FOR ALL SPECIAL PACKAGING,FCI MUST BE CONTACTED FOR  
AVAILABILITY IN SIZE REQUESTED.

- RETENTION LEG:  
2.3kg MAX INSERTION FORCE AND 1 kg MIN RETENTION FORCE PER  
RETENTIVE PIN USING 1.57 THICK CIRCUIT BOARD AND RECOMMENDED  
HOLE PATTERN. RETENTIVE LOCATION AT THE  
DISCRETION OF THE MANUFACTURER.RETENTION IS TWO PINS PER  
PART ADJACENT TO ONE ANOTHER.
- STACK HEIGHT IS DETERMINED BY CUSTOMER APPLICATION REQUIREMENTS.  
SPECIFIED IN mm. EXAMPLE: 3.7mm STACK HEIGHT=59112-XXX-037X.
- POST LENGTH IS DETERMINED BY: (OAL)-(2.50)-(STACK HGT.)=POST  
LENGTH.MINIMUM MATING LENGTH TO BE 2.0mm
- DIM 1.0 APPLIES TO MOLDED SIDE(S) ONLY.IF SIDE(S) ARE BROKEN,  
DIM 1.5 MAX APPLIES.
- OMIT FROM PRODUCT NUMBER IF FEATURE IS NOT APPLICABLE.
- P/N:59112-XXXLF IS SAME AS P/N:59112-XXX. THE SUFFIX 'LF'  
IS ADDED FOR EASY LEAD FREE IDENTIFICATION.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 255°C PEAK  
TEMPERATURE FOR 10 SECONDS IN A CONVECTION, INFRA-RED  
OR VAPOR PHASE REFLOW OVEN.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK  
TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER  
APPLICATION WITH A 1.57MM MINIMUM THICK CIRCUIT BOARD.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND  
OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

|               |                     |     |             |             |            |       |                        |               |           |          |
|---------------|---------------------|-----|-------------|-------------|------------|-------|------------------------|---------------|-----------|----------|
| spec ref      | -                   | dr  | wcadmin     | 2010/10/31  | projection | MM    | size                   | A3            | scale     | 5:1      |
| tolerance std | ISO 406<br>ISO 1101 | eng | Guo-Min Sun | 2013/12/12  | chr        | -     | ecn no                 | ELX-N-16500-1 | rel level | Released |
| surface       | linear              | 0.X | ±0.5        | 0.XX        | ±0.25      | 0.XXX | ±0.15                  | angular       | 0°        | ±3°      |
| ISO 1302      | angular             | 0°  | ±3°         | www.fci.com | cat. no.   | -     | Product - Customer Drw | sheet 2 of 2  | rev       | N        |