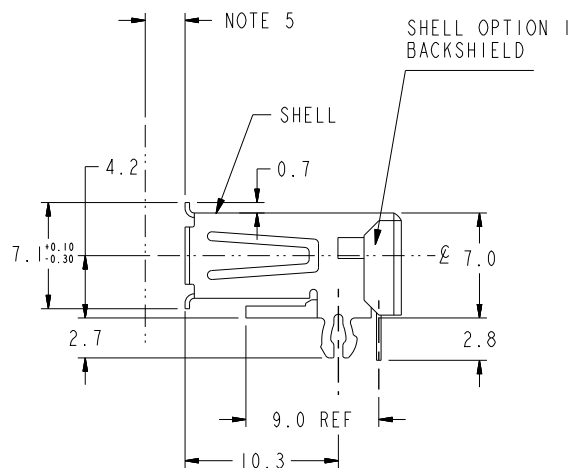
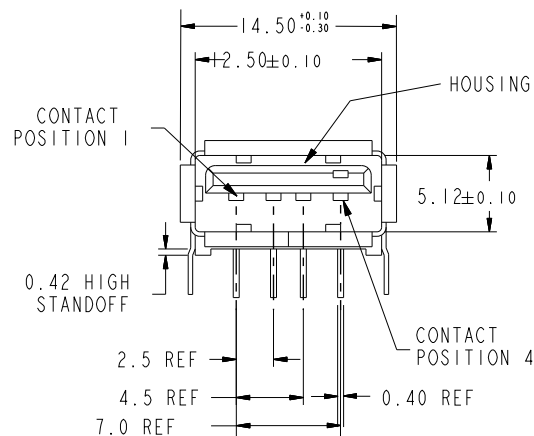
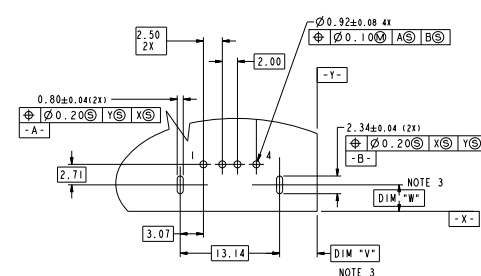
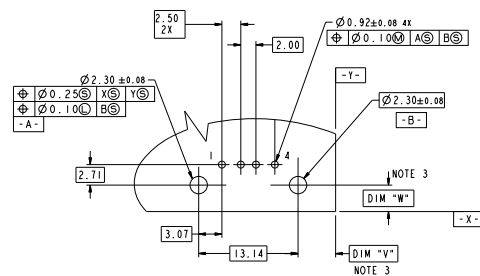
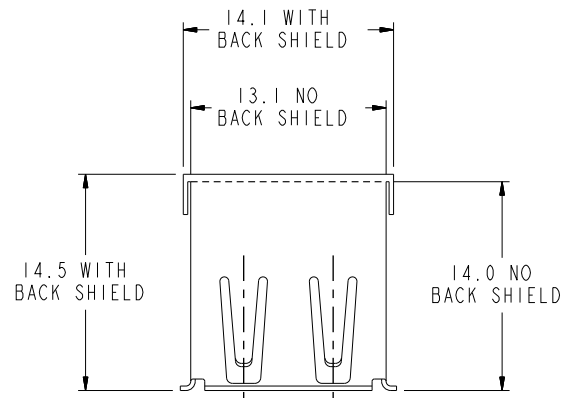




#### NOTES:

- MATERIAL:  
CONTACTS: COPPER ALLOY  
SHELL: COPPER ALLOY  
HOUSING: UL 94V-0 RATED THERMOPLASTIC;
- PLATING:  
CONTACTS: SEE PRODUCT NUMBER CODE  
SHELL: SEE PRODUCT NUMBER CODE;
- DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER;
- RECOMMENDED PC BOARD THICKNESS OF 1.57mm (EXCEPT STYLE 5 1.20mm)
- 2.67mm MAXIMUM PANEL THICKNESS IF MOUNTED BEHIND PANEL;
- CONTACT PLATING CODE OPTION 1 DOES NOT MEET THE PLATING SPECIFIED PER UNIVERSAL SERIAL BUS SPECIFICATION REVISION 1.0;
- PRODUCT SPEC GS-12-095 & PACKAGING SPEC GS-14-393;
- COMPLIED WITH USB 2.0 & TID NUMBER 60000204;
- 87520-1010XX, -1012XX, 3010XX, -3012XX, -5010XX, -6010XX AND -7010XXLF DURABILITY MET 5000 CYCLES THE OTHER DASH NUMBER MEET USB 2.0 DURABILITY 1500 CYCLES.
- PACKING STANDARD GS-14-920, WILL BE APPLIED FOR LEAD FREE P/N'S;
- FOR LEAD FREE P/N, THE PRODUCT MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008;
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRARED OR VAPOR PHASE REFLOW OVEN;
- 87520-1010XXLF/-3010XXLF/-5010XXLF CAN WITHSTAND 2Amps CURRENT EITHER PARALLEL OR SERIALS (TESTING PLUG WITH 20 AWG WIRE);
- THE PRODUCT CAN BE USED FOR PIP PROCESS.

|                      |                                       |       |      |             |           |                 |                                   |                           |                |               |       |          |    |
|----------------------|---------------------------------------|-------|------|-------------|-----------|-----------------|-----------------------------------|---------------------------|----------------|---------------|-------|----------|----|
| spec ref             |                                       |       |      | dr          | Keen Wu   | 2010/11/03      | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size           | A4            | scale | 4.000    |    |
| tolerance std        | TOLERANCES UNLESS OTHERWISE SPECIFIED |       |      | eng         | John Han  | 2013/12/26      |                                   |                           | ecn no         | ELX-N-16573-1 |       |          |    |
|                      |                                       |       |      | chr         | -         | -               |                                   |                           | rel level      |               |       | Released |    |
|                      |                                       |       |      | appr        | Rick Bian | 2013/12/26      |                                   |                           | product family |               |       |          |    |
| surface <div>✓</div> | linear                                | 0.X   | ±0.3 | <div></div> | title     | USB RECEPCTACLE |                                   |                           | dwg no         | 87520         |       | rev      | AN |
|                      |                                       | 0.XX  | ±0.2 |             |           |                 |                                   |                           |                |               |       |          |    |
|                      |                                       | 0.XXX | ±    |             |           |                 |                                   |                           |                |               |       |          |    |
|                      | angular                               | 0°    | ±3°  |             |           |                 |                                   |                           |                |               |       |          |    |

# PRODUCT NUMBER CODE

BASE PRODUCT NUMBER

HOUSING COLOR AND SHELL PLATING OPTIONS

- 0 - WHITE+SHELL TIN & NICKEL PLATING
- 1 - BLACK+SHELL TIN & NICKEL PLATING
- 2 - WHITE+SHELL NICKEL PLATING ONLY
- 3 - BLACK+SHELL NICKEL PLATING ONLY
- 4 - WHITE FR50 + SHELL TIN & NICKEL PLATING FOR NON LEAD FREE P/N'S  
CHANGE WHITE FR50 TO WHITE PA46 FOR LEAD FREE P/N'S
- 5 - BLACK NYLON 66 + SHELL TIN & NICKEL PLATING FOR NON LEAD FREE P/N'S  
CHANGE BLACK NYLON 66 TO BLACK PA46 FOR LEAD FREE P/N'S
- 6 - WHITE FR50+SHELL TIN & NICKEL PLATING FOR NON LEAD FREE P/N'S  
CHANGE WHITE FR50 TO WHITE PA46 FOR LEAD FREE P/N'S
- 7 - WHITE PA46+SHELL TIN & NICKEL PLATING

SHELL TYPE OPTION

- 0 - NO BACK SHIELD, SEE STYLE 1 FOR DURABILITY 1500 CYCLES  
SEE STYLE 4 FOR DURABILITY 5000 CYCLES
- 1 - BACK SHIELD, SEE STYLE 2
- 2 - PARTIAL BACK SHIELD, SEE STYLE 3
- 3 - NO BACK SHIELD, SEE STYLE 4 WITH HIGH PERFORMANCE MATERIAL  
FOR DURABILITY 15,000 CYCLES, NI PLATING ONLY

MOUNTING HOLE OPTIONS

- 1 - NONE

TERMINAL PLATING OPTION

- 0 - 1.25um Ni UNDERPLATE  
0.76um GXT CONTACT AREA  
2.50um MATTE TIN TAIL AREA FOR P/N'S
- 2 - 1.25um Ni UNDERPLATE  
0.76um /30u" GXT CONTACT AREA  
2.50um MATTE TIN TAIL AREA FOR P/N'S

PACKAGING OPTIONS

- A - TAPE AND REEL
- B - TUBES

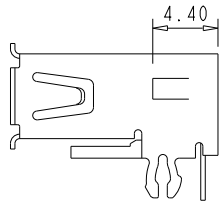
DATE CODE

SPECIAL OPTION:

- S: PANASONIC ONLY
- B: FOR 1.20mm THICKNESS PCB

LEAD FREE OPTION

- P/N'S WITH SUFFIX "LF" MEAN LEAD FREE PRODUCT
- FOR LEAD FREE P/N, CHANGE ALL ORIGINAL TIN/LEAD PLATING TO PURE TIN PLATING

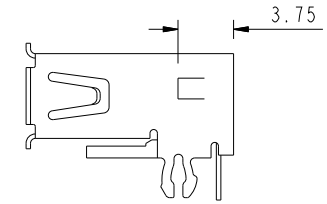


STYLE 4 WITHOUT BACK SHELL

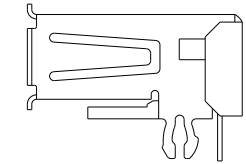
FOR 87520-1010XXLF  
-1012XXLF  
-3010XXLF  
-3012XXLF  
-5012XXLF  
-6010XXLF  
-7010XXSLF  
-3S10XPPLF  
-3S12XPPLF

## AVAILABLE PART NUMBER LIST

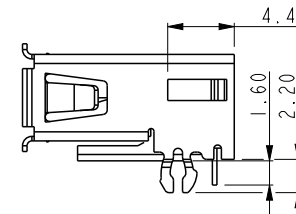
87520-0010XXLF  
87520-0012XXLF  
87520-0210XXLF  
87520-1010XXLF  
87520-1012XXLF  
87520-0110XXLF  
87520-0112XXLF  
87520-2010XXLF  
87520-2012XXLF  
87520-2110XXLF  
87520-2112XXLF  
87520-2210XXLF  
87520-3010XXLF  
87520-3012XXLF  
87520-3110XXLF  
87520-3112XXLF  
87520-4010XXLF  
87520-4110XXLF  
87520-5010XXLF/5010XXSLF  
87520-5110XXLF  
87520-6010XXLF  
87520-7010XXSLF  
87520-3010APBLF  
87520-3S10XPPLF  
87520-3S12XPPLF  
87520-3S10XPBLF  
87520-3S12XPBLF



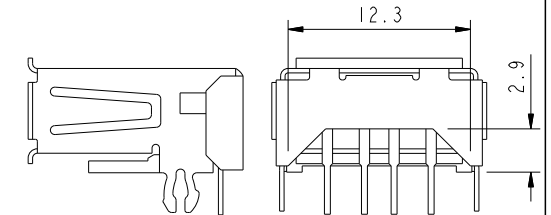
STYLE 1 WITHOUT BACK SHELL



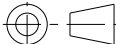
STYLE 2 WITH BACK SHELL



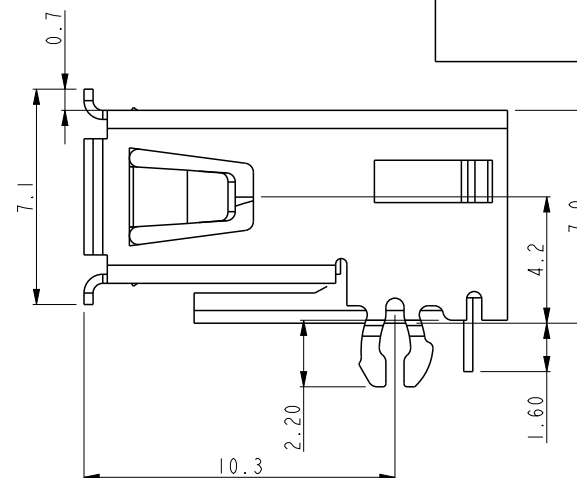
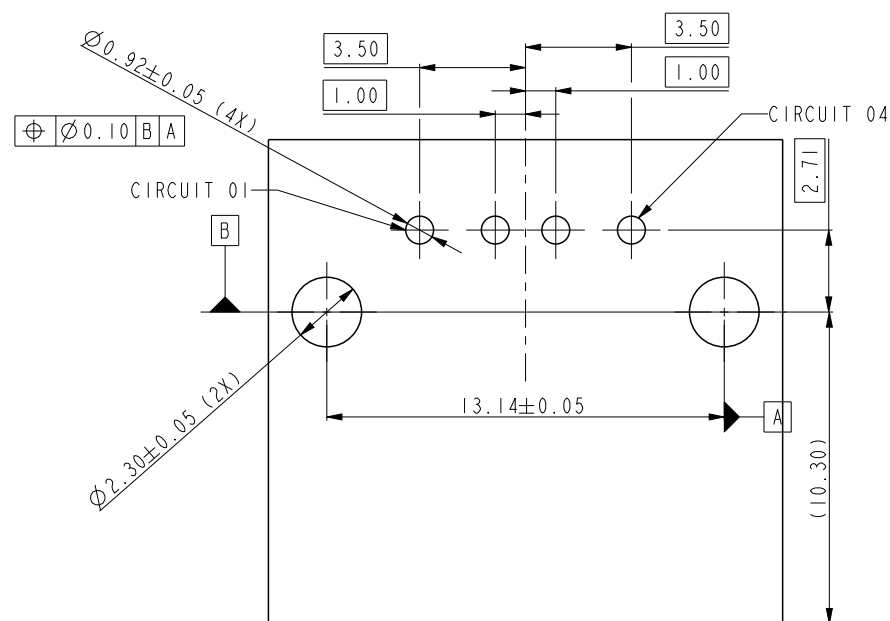
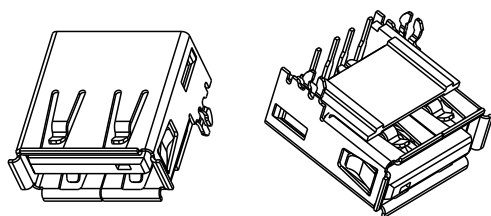
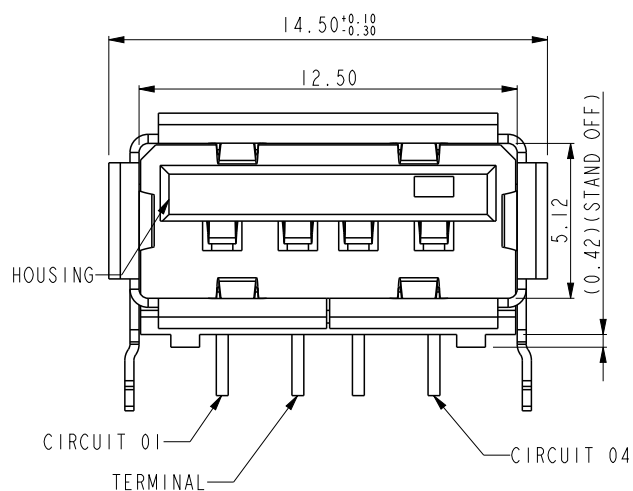
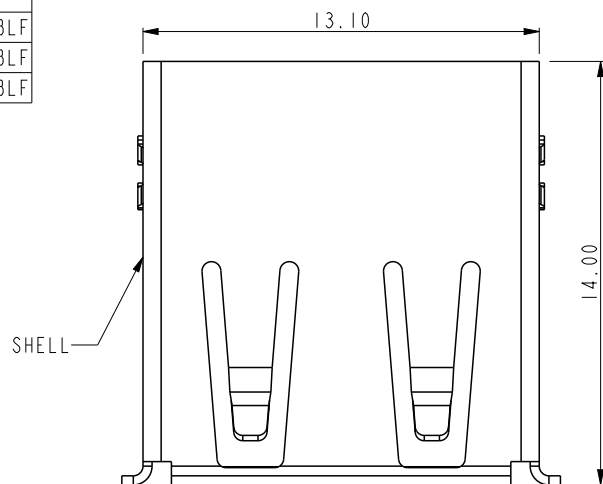
STYLE 5 WITHOUT BACK SHELL  
FOR 1.20mm THICKNESS PCB  
87520-3X10APBLF



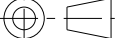
STYLE 3 WITH PARTIAL BACK SHELL

|                                                                                     |           |            |                                                                                                                        |                                                                                                                |                |               |       |        |              |       |     |    |
|-------------------------------------------------------------------------------------|-----------|------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------|---------------|-------|--------|--------------|-------|-----|----|
| dr                                                                                  | Keen Wu   | 2010/11/03 | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size           | A4            | scale | 4.000  |              |       |     |    |
| eng                                                                                 | John Han  | 2013/12/26 |                                                                                                                        |                                                                                                                | ecn no         | ELX-N-16573-1 |       |        |              |       |     |    |
| chr                                                                                 | -         | -          |                                                                                                                        |                                                                                                                |                |               |       |        |              |       |     |    |
| appr                                                                                | Rick Bian | 2013/12/26 | product family                                                                                                         |                                                                                                                |                | rel level     |       |        | Released     |       |     |    |
|  |           | title      |                                                                                                                        |                                                                                                                | USB RECEPTACLE |               |       | dwg no |              | 87520 | rev | AN |
| www.fci.com                                                                         |           | cat. no.   |                                                                                                                        | Product - Customer Drw                                                                                         |                |               |       |        | sheet 2 of 3 |       |     |    |

| PART NUMBER     |
|-----------------|
| 87520-3010APBLF |
| 87520-3SI0XPBLF |
| 87520-3SI2XPBLF |



RECOMMENDED PCB LAYOUT  
COMPONENT SIDE

|                                                                                     |           |            |                                                                                                                        |                                                                                                                |                 |           |               |        |              |       |     |
|-------------------------------------------------------------------------------------|-----------|------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|-----------|---------------|--------|--------------|-------|-----|
| dr                                                                                  | Keen Wu   | 2010/11/03 | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size            | A4        | scale         | 4.000  |              |       |     |
| eng                                                                                 | John Han  | 2013/12/26 |                                                                                                                        |                                                                                                                | ecn no          |           | ELX-N-16573-1 |        |              |       |     |
| chr                                                                                 | -         | -          |                                                                                                                        |                                                                                                                |                 |           |               |        |              |       |     |
| appr                                                                                | Rick Bian | 2013/12/26 | product family                                                                                                         |                                                                                                                |                 | rel level |               |        | Released     |       |     |
|  |           | title      |                                                                                                                        |                                                                                                                | USB RECECPTACLE |           |               | dwg no |              | 87520 | rev |
|                                                                                     |           | USB        |                                                                                                                        |                                                                                                                |                 |           |               |        |              |       | AI  |
| www.fci.com                                                                         |           | cat. no.   |                                                                                                                        | Product - Customer Drw                                                                                         |                 |           |               |        | sheet 3 of 3 |       |     |