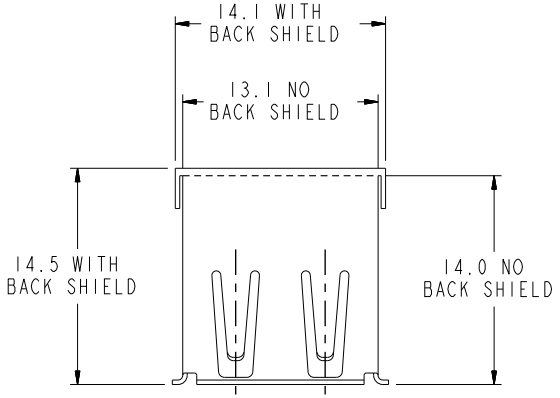
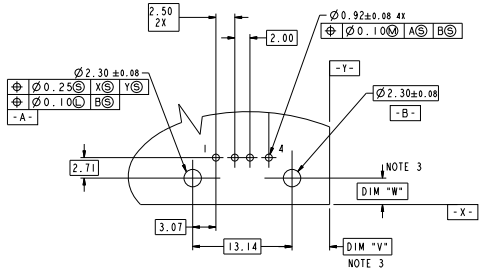
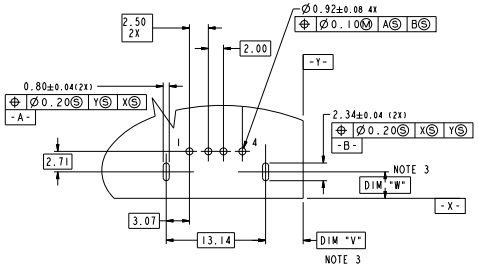
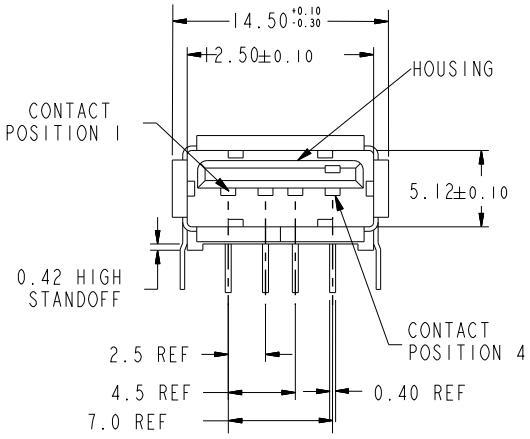


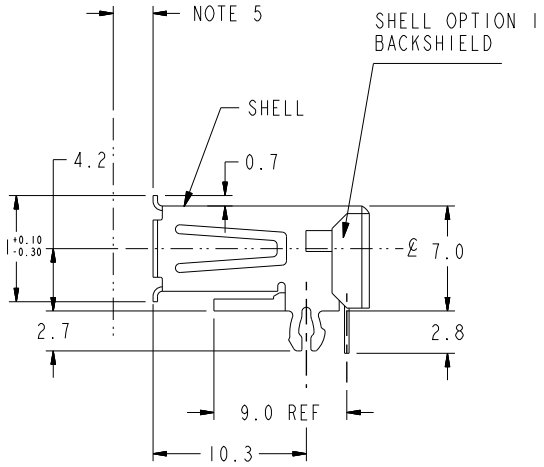


P.C. BOARD LAYOUT
RECOMMEND TYPE 1



P.C. BOARD LAYOUT
RECOMMEND TYPE 2





NOTES:
1. MATERIAL:
   CONTACTS: COPPER ALLOY
   SHELL: COPPER ALLOY
   HOUSING: UL 94V-0 RATED THERMOPLASTIC;
2. PLATING:
   CONTACTS: SEE PRODUCT NUMBER CODE
   SHELL: SEE PRODUCT NUMBER CODE;
3. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER;
4. RECOMMENDED PC BOARD THICKNESS OF 1.57mm (EXCEPT STYLE 5 1.20mm)
5. 2.67mm MAXIMUM PANEL THICKNESS IF MOUNTED BEHIND PANEL;
6. CONTACT PLATING CODE OPTION 1 DOES NOT MEET THE PLATING
   SPECIFIED PER UNIVERSAL SERIAL BUS SPECIFICATION REVISION 1.0;
7. PRODUCT SPEC GS-12-095 & PACKAGING SPEC GS-14-393;
8. COMPLIED WITH USB 2.0 & TID NUMBER 60000204;
9. 87520-1010XX, -1012XX,3010XX,-3012XX , -5010XX, -6010XX
   AND -7010XXLF DURABILITY MET 5000 CYCLES THE OTHER DASH
   NUMBER MEET USB 2.0 DURABILITY 1500 CYCLES.
10. PACKING STANDARD GS-14-920, WILL BE APPLIED FOR LEAD FREE P/N'S;
11. FOR LEAD FREE P/N, THE PRODUCT MEET EUROPEAN UNION DIRECTIVES AND
    OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008;
12. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK
    TERMERATURE FOR 40 SECONDS IN A CONVECTION, INFRO-RED
    OR VAPOR PHASE REFLOW OVEN;
13. 87520-1010XXLF/-3010XXLF/-5010XXLF CAN WITHSTAND 2Amps
    CURRENT EITHER PARALLEL OR SERIALS
    (TESTING PLUG WITH 20 AWG WIRE);
14. THE PRODUCT CAN BE USED FOR PIP PROCESS.

spec ref			dr	Keen Wu	2010/11/04	projection	MM
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Li-Qing Lei	2021/03/31		
			chr	-	-		
			appr	Tim Yao	2021/04/29	product family	
surface	linear	0.X	±0.3	Amphenol FCi	title	USB RECECPTACLE	dwg no 87520
		0.XX	±0.2			USB	
		0.XXX	±				
	angular	0°	±3°	www.fci.com	cat. no.	Product - Customer Drw	sheet 1 of 3

size	scale
A4	4.000
ecn no	ELX-N-40522-1
rel level	Released
rev	AR

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Creo File:ELX-MC-A4C,REV F,2020-12-21

PRODUCT NUMBER CODE

87520- X X X X X P X LF

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
- S - 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

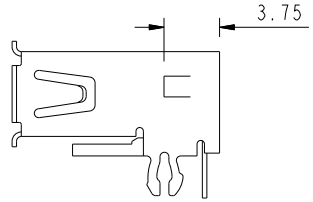
DATE CODE

SEPECIAL OPTION:
S: PANASONIC ONLY
B: FOR 1.20mm THICKNESS PCB
C: FOR CRIMP SHELL TAIL OPTION
SHELL STYLE 6

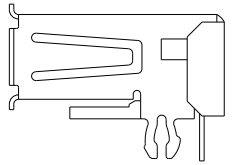
LEAD FREE OPTION
P/N'S WITH SUFFIX "LF" MEAN LEAD FREE PRODUCT
FOR LEAD FREE P/N, CHANGE ALL ORIGINAL TIN/LEAD PLATING TO PURE TIN PLATING

AVALIABLE PART NUMBER LIST

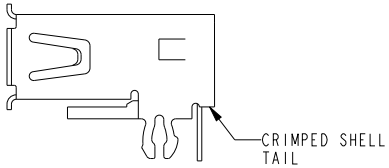
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87520-0012XXLF
87520-0210XXLF
87520-1010XXLF
87520-1012XXLF
87520-0110XXLF
87520-0112XXLF
87520-1110XXLF
87520-1112XXLF
87520-2010XXLF
87520-2012XXLF
87520-2110XXLF
87520-2112XXLF
87520-2210XXLF
87520-3010XXLF
87520-3012XXLF
87520-3110XXLF
87520-3112XXLF
87520-4010XXLF
87520-4110XXLF
87520-5010XXLF/5010XXSLF
87520-5110XXLF
87520-6010XXLF
87520-7010XXSLF
87520-3010APBLF
87520-3S10XPLF
87520-3S12XPLF
87520-3S10XPBLF
87520-3S12XPBLF
87520-1010APBLF



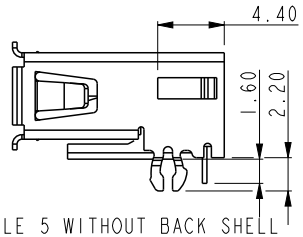
STYLE 1 WITHOUT BACK SHELL



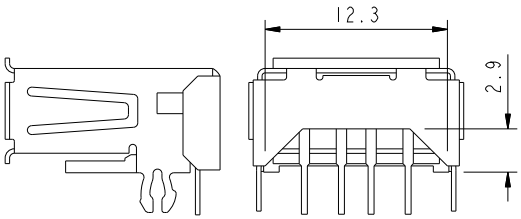
STYLE 2 WITH BACK SHELL



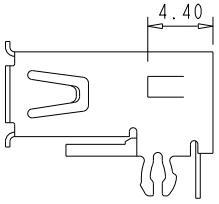
STYLE 6 WITHOUT BACK SHELL
CRIMP SHELL TAIL OPTION



STYLE 5 WITHOUT BACK SHELL
FOR 1.20mm THICKNESS PCB
87520-3X10APBLF&87520-1010APBLF



STYLE 3 WITH PARTIAL BACK SHELL



STYLE 4 WITHOUT BACK SHELL

FOR 87520-1010XXLF
-1012XXLF
-3010XXLF
-3012XXLF
-5012XXLF
-6010XXLF
-7010XXSLF
-3S10XPLF
-3S12XPLF

dr	Keen Wu	2010/11/04
eng	Li-Qing Lei	2021/03/31
chr	-	-
appr	Tim Yao	2021/04/29

projection | MM | size A4 | scale 4.000

ecn no ELX-N-40522-1

product family | rel level Released

Amphenol FCi

title: USB RECECPTACLE
USB

dwg no 87520

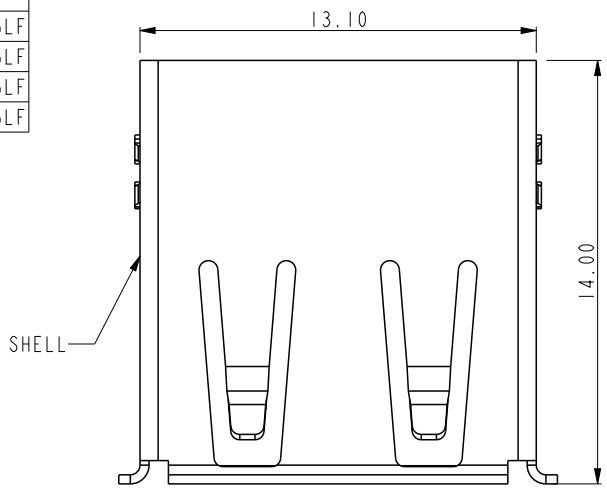
rev AR

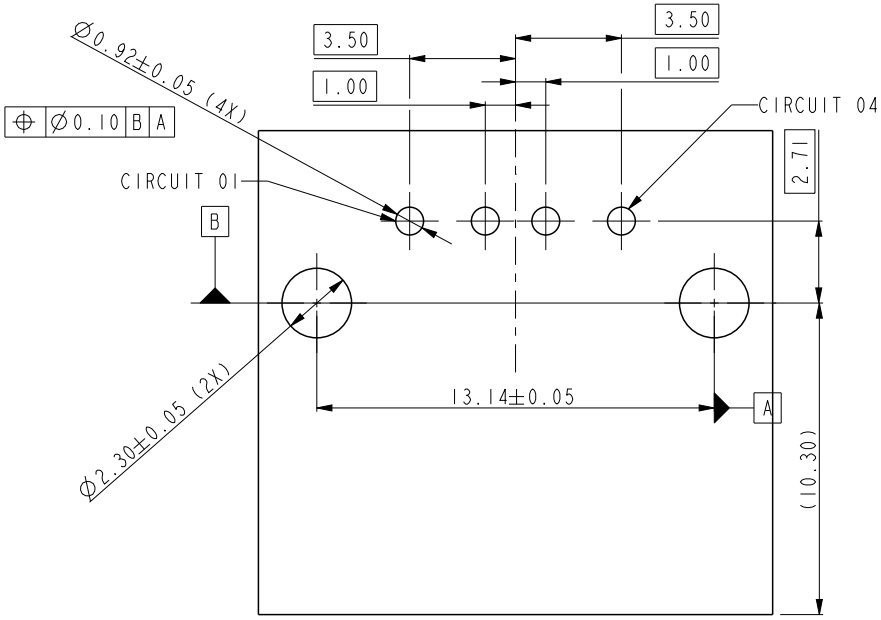
www.fci.com | cat. no. | Product - Customer Drw | sheet 2 of 3

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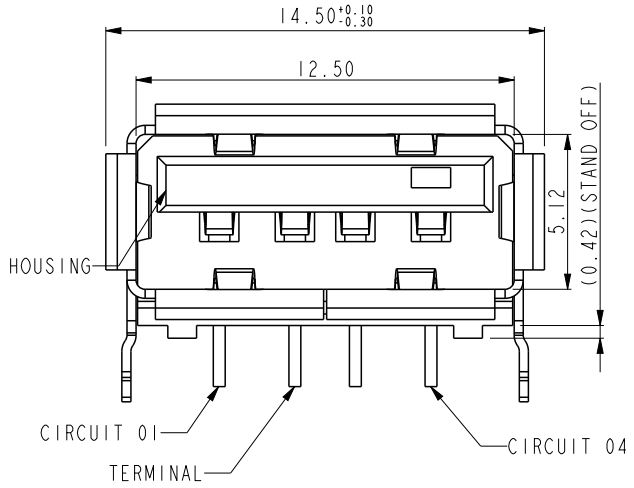
Creo File:ELX-MC-A4C,REV F,2020-12-21

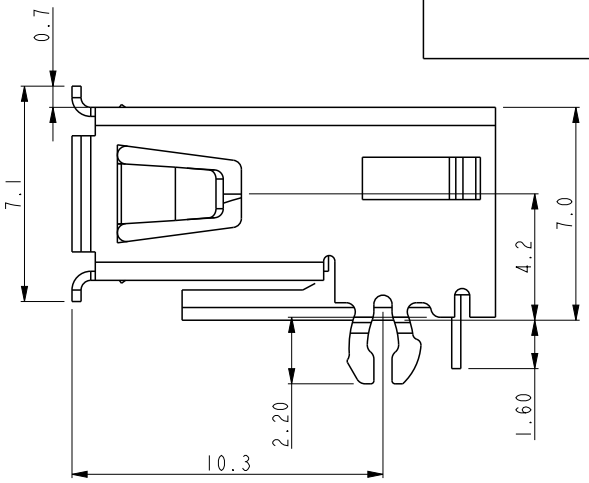
PART NUMBER
87520-3010APBLF
87520-3S10XPBLF
87520-3S12XPBLF
87520-1010APBLF

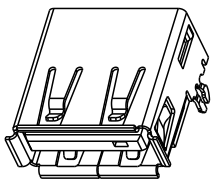


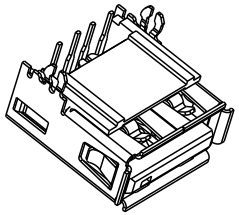


RECOMMENDED PCB LAYOUT
COMPONENT SIDE









dr	Keen Wu	2010/11/04	projection	MM	size A4	scale 4.000
eng	Li-Qing Lei	2021/03/31			ecn no	ELX-N-40522-1
chr	-	-			rel level	Released
appr	Tim Yao	2021/04/29	product family			

Amphenol FCi	title: USB RECECPTACLE USB	dwg no 87520	rev AR
www.fci.com	cat. no.	Product - Customer Drw	sheet 3 of 3

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Creo File:ELX-MC-A4C,REV F,2020-12-21