

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 TEMPERATURE 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	size	A4	scale	4.000
tolerance std	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					
surface	linear	0.X	±0.3	Amphenol FCI	title	USB RECECPTACLE	dwg no	87520	rev
		0.XX	±0.2			USB			AR
		0.XXX	±						
	angular	0°	±3°	www.fci.com	cat. no.		Product - Customer Drw	sheet 1 of 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
- 5 - 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

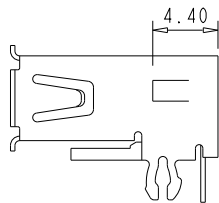
DATE CODE

SPECIAL OPTION:

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

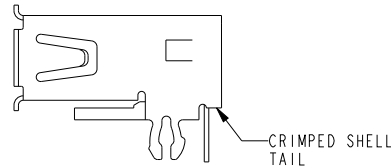
LEAD FREE OPTION

- 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

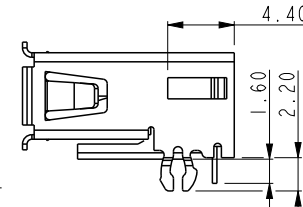


STYLE 4 WITHOUT BACK SHELL

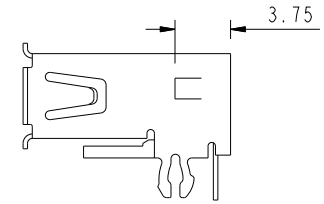
FOR 87520-1010XXLF
-1012XXLF
-3010XXLF
-3012XXLF
-5012XXLF
-6010XXLF
-7010XXSLF
-3S10XPBF
-3S12XPBF



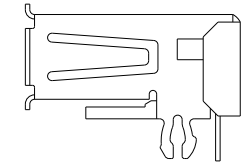
STYLE 6 WITHOUT BACK SHELL
CRIMP SHELL TAIL OPTION



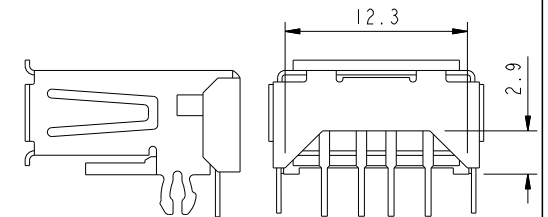
STYLE 5 WITHOUT BACK SHELL
FOR 1.20mm THICKNESS PCB
87520-3X10APBLF&87520-1010APBLF



STYLE 1 WITHOUT BACK SHELL



STYLE 2 WITH BACK SHELL



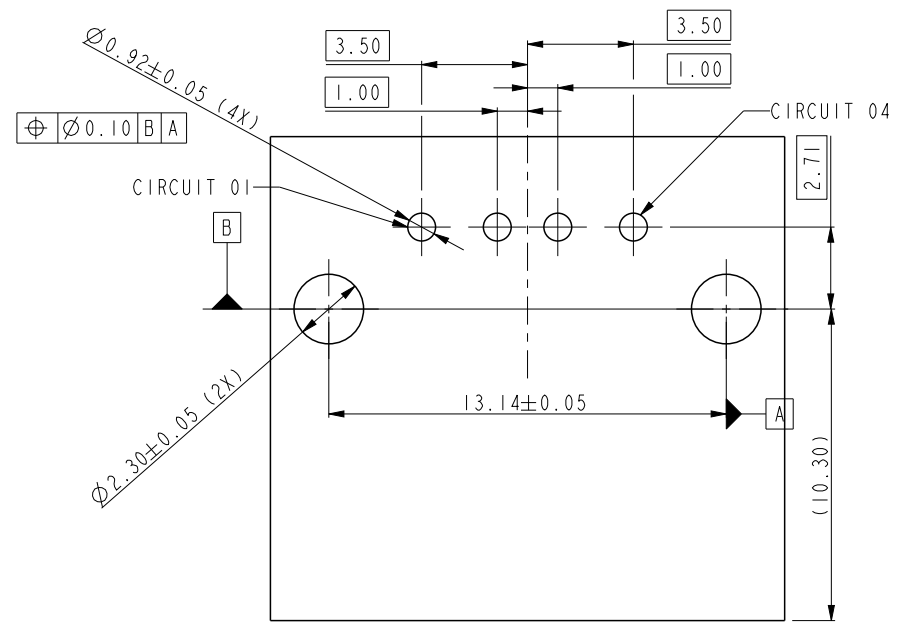
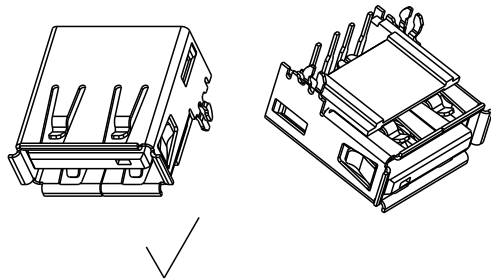
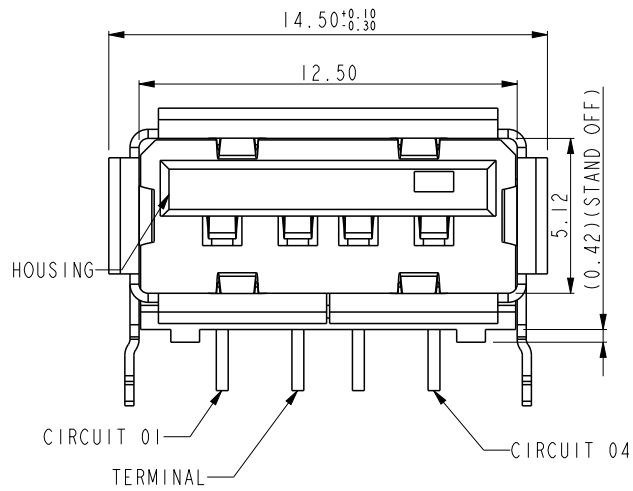
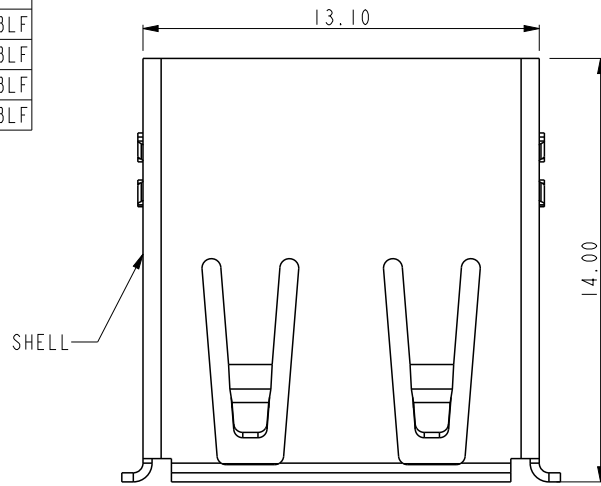
STYLE 3 WITH PARTIAL BACK SHELL

AVAILABLE PART NUMBER LIST

87520-0010XXLF
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
87520-3S10XPBF
87520-3S12XPBF
87520-3S10XPBLF
87520-3S12XPBLF
87520-1010APBLF

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 RECEPTACLE	dwg no	87520	rev	AR		
www.fci.com	cat. no.		Product - Customer Drw		sheet 2 of 3			

PART NUMBER
87520-3010APBLF
87520-3SI0XPBLF
87520-3SI2XPBLF
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		rev	AR		
Amphenol FCI		title			USB RECEPCTACLE		87520	
www.fci.com		cat. no.			Product - Customer Drw		sheet 3 of 3	

Mouser Electronics

Authorized Distributor

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Amphenol:

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