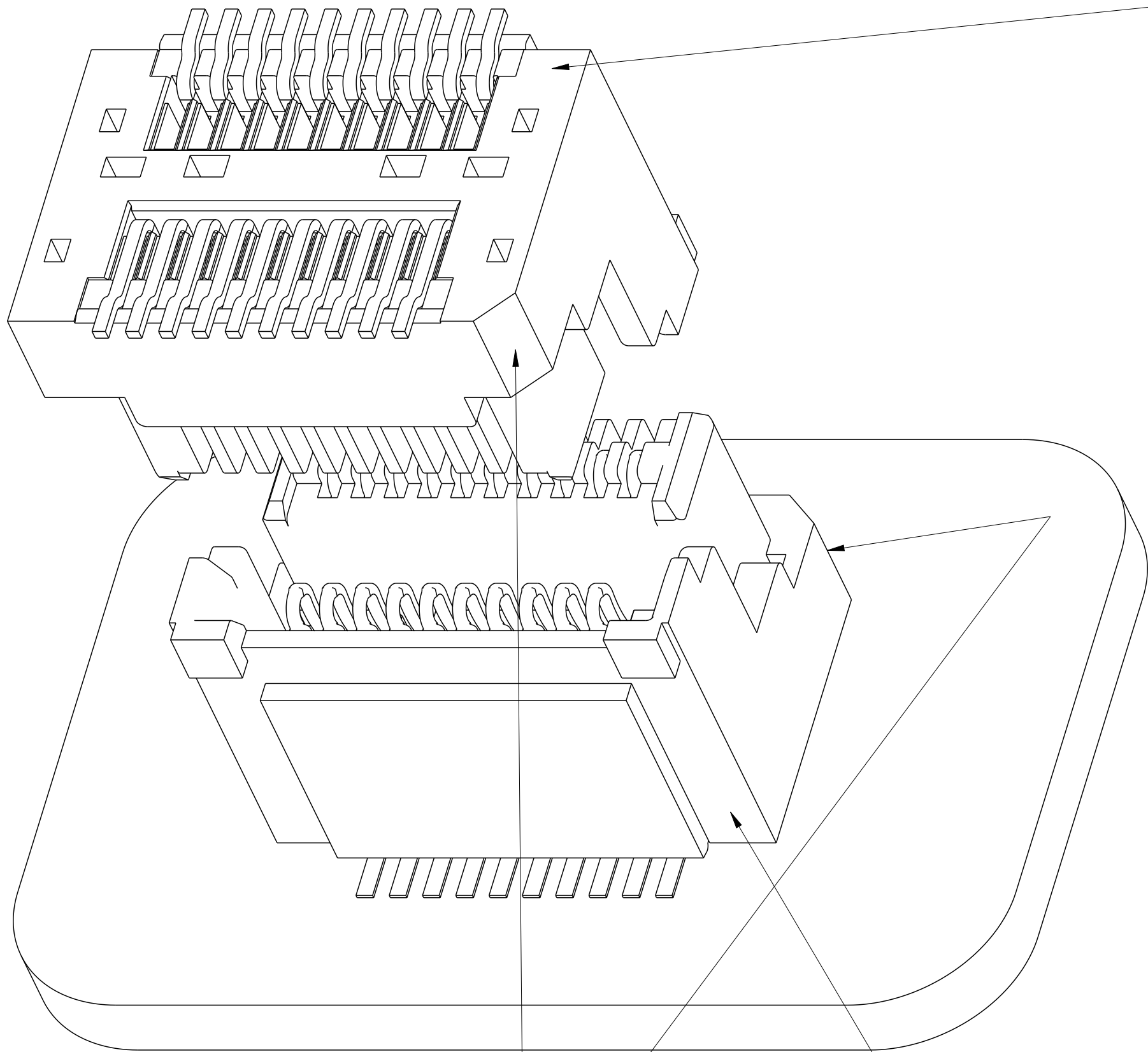
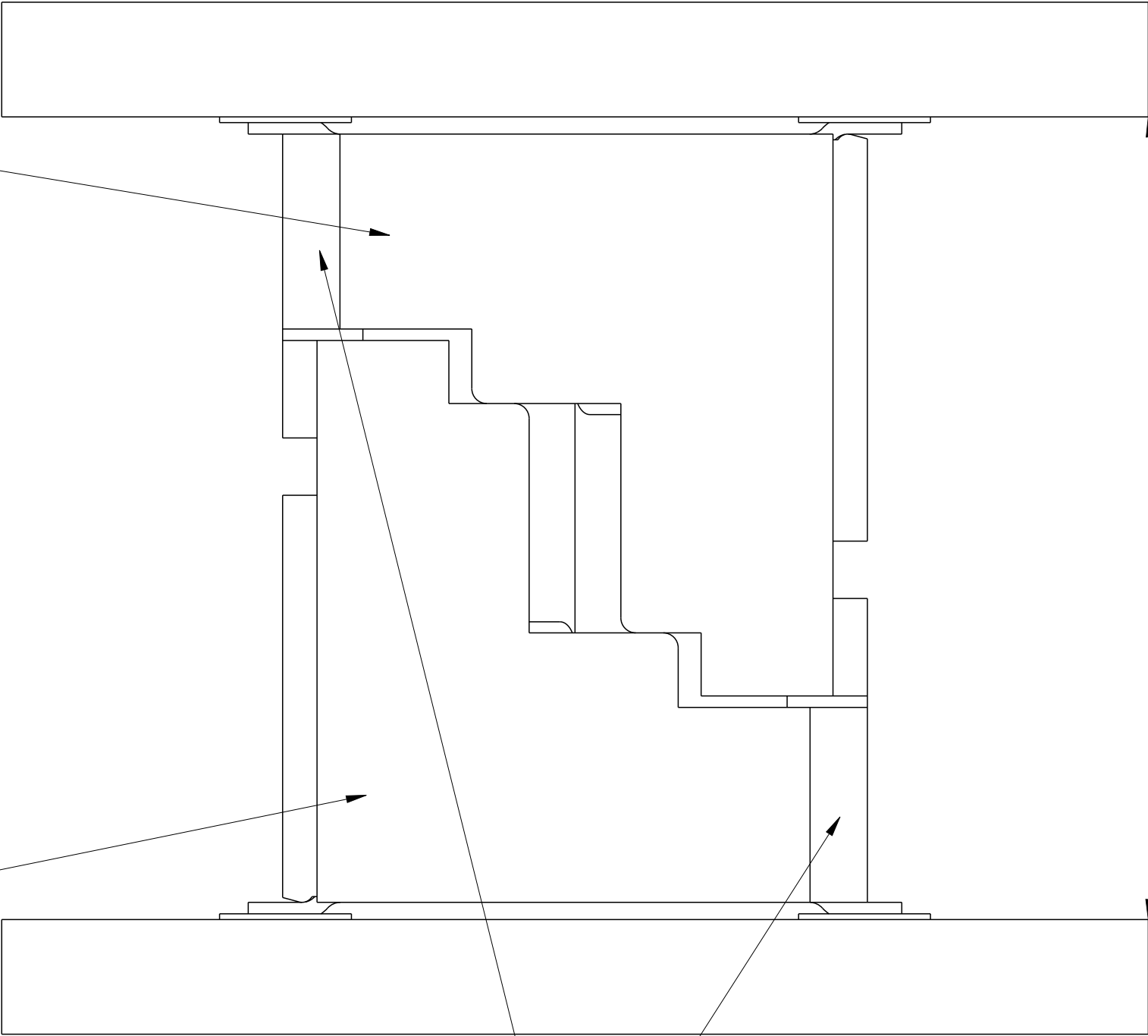


PRODUCT NUMBER
10106814-0XX0X2LF



10106814-0XX0X2LF
HERMAPHRODITIC CONNECTOR
ASSEMBLY



PRINTED
CIRCUIT
BOARD

CONNECTOR ORIENTATION
FEATURE
SEE PCB LAYOUT ON PAGE 5

10106814-0XX0X2LF
HERMAPHRODITIC CONNECTOR
ASSEMBLY

CONNECTOR ORIENTATION
FEATURE
SEE PCB LAYOUT ON PAGE 5



Copyright FCI.

spec ref	---	dr	Stu Stoner	2010/11/22	projection	mm	size	A2	scale	20:1
tolerance std	ASME Y14.5	eng	Andy Lu	2015/07/15	chr	-	ecn no	ELX-DG-21387-1	rel level	Released
surface	✓	appr	Pei-Ming Zheng	2015/07/15	product family	MezzoStak	rel level	Released	rev	D
linear	0.X ±0.3	0.XX ±0.15	0.XXX ±0.05	angular	0° ±3°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 1 of 8
HERMAPHRODITIC CONNECTOR, SHORT STYLE 20-90 POS, 0.5MM CTR, 4-7MM STACK HT										

PDS: Rev :D

STATUS:Released

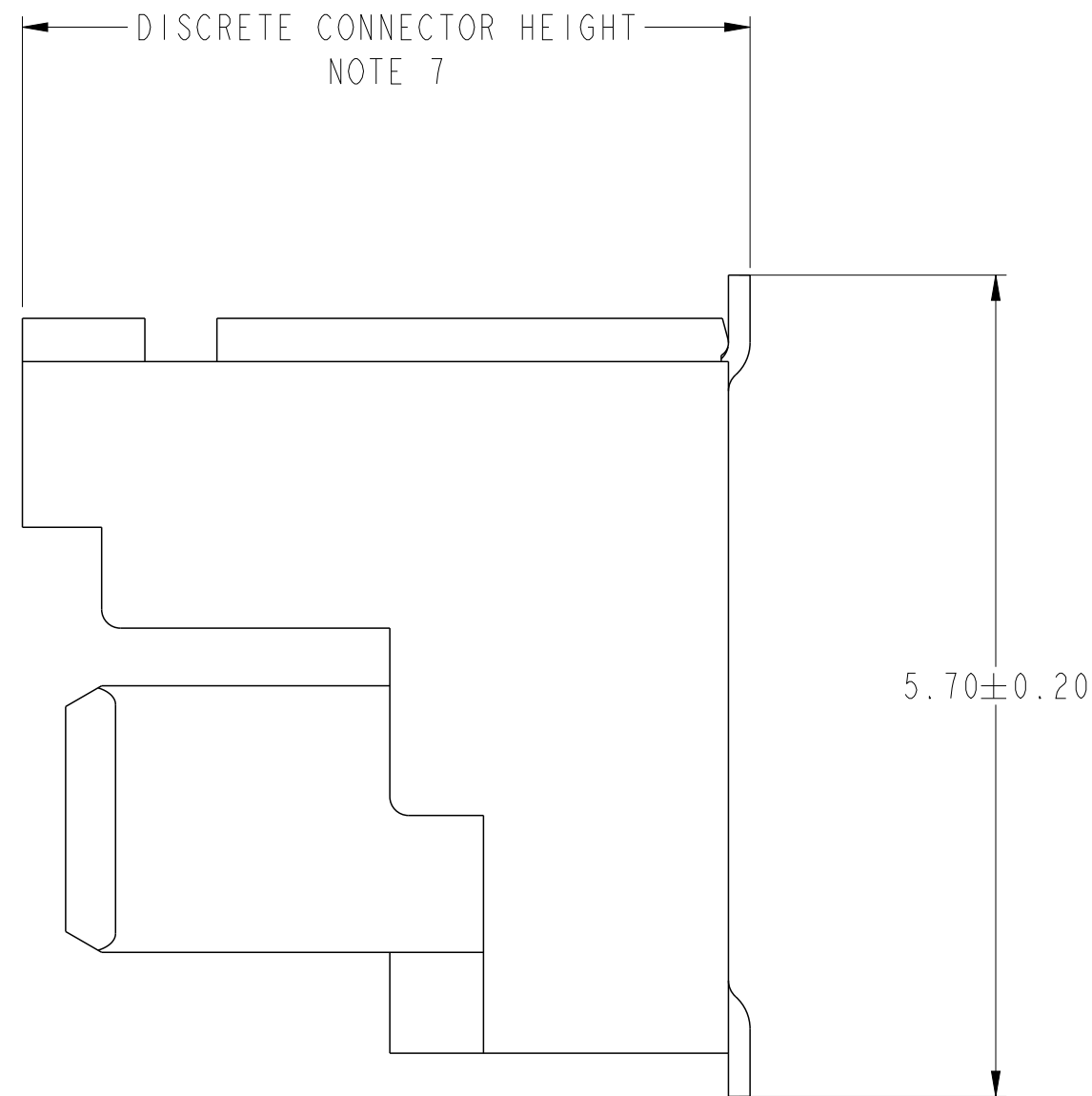
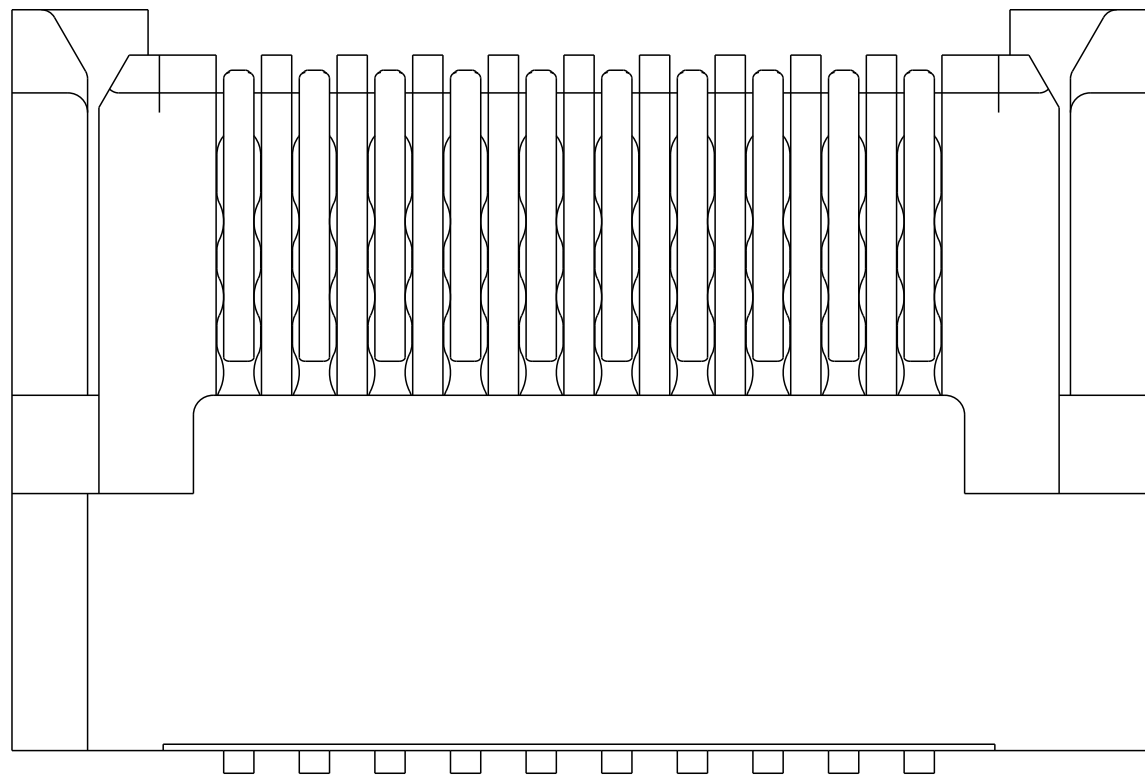
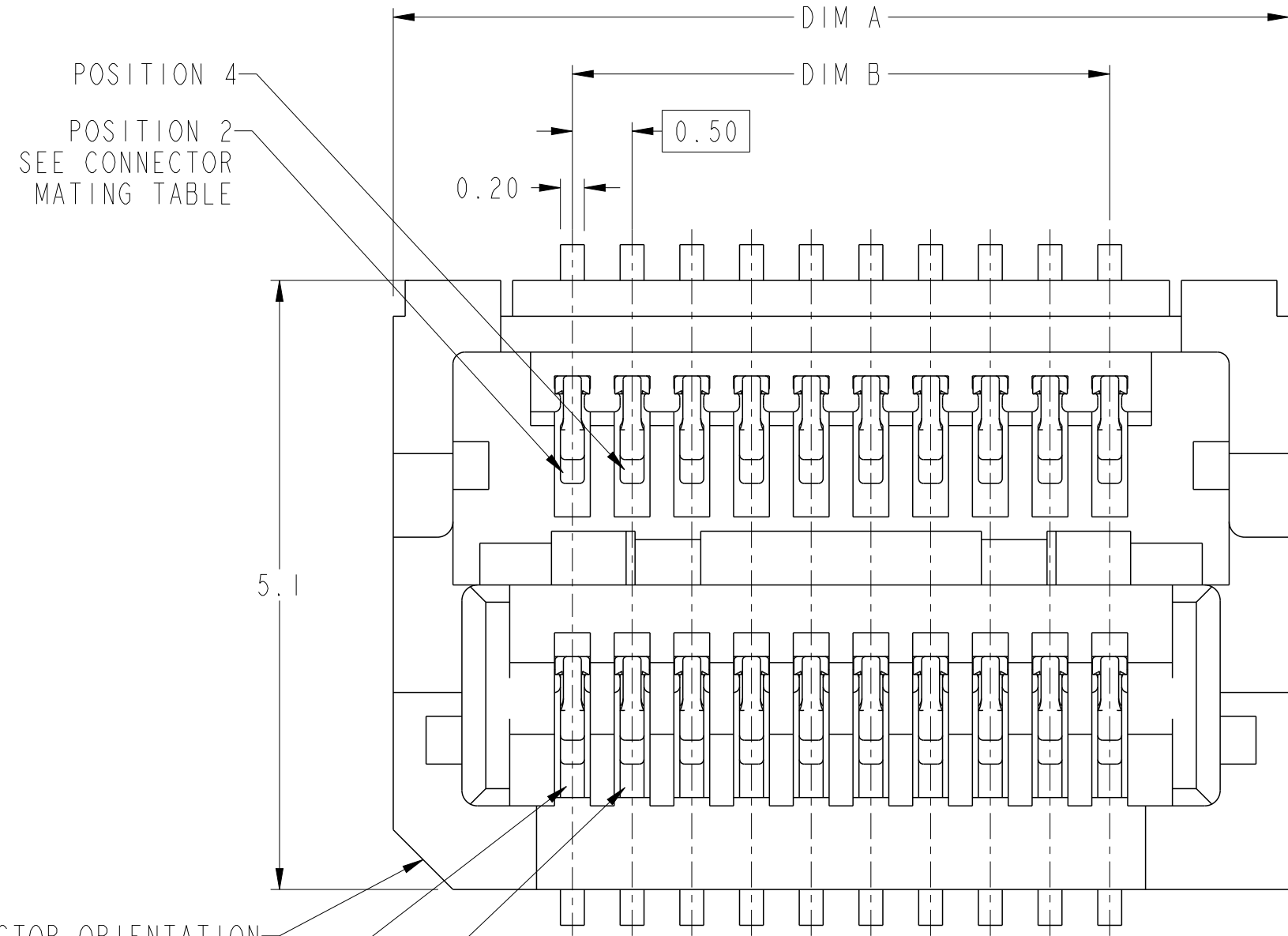
Printed: Jul 16, 2015

POSITION 4
POSITION 2
SEE CONNECTOR
MATING TABLE

CONNECTOR ORIENTATION
FEATURE

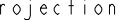
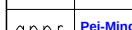
POSITION 1
SEE CONNECTOR
MATING TABLE

POSITION 3



HERMAPHRODITIC CONNECTOR MATING	
CONNECTOR POSITION	MATES WITH CONNECTOR POSITION
1	2
3	4
5	6
7	8
9	10
ETC.	

10106814-024002LF SHOWN
WITHOUT STANDARD PICK-UP CAP

spec ref			---		dr	Stu Stoner	2010/11/22	projection		mm	size	A2	scale	20:1	
tolerance std			ASME Y14.5			eng	Andy Lu				2015/07/15	ecn no	ELX-DG-21387-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED			ASME Y14.5			chr	-	product family			MezzoStak			rel level	Released
						appr			Pei-Ming Zheng			2015/07/15			
surface		linear	0.X	±0.3		title	HERMAPHRODITIC CONNECTOR, SHORT STYLE 20-90 POS, 0.5MM CTR, 4-7MM STACK HT				dwg no	10106814		rev	D
			0.XX	±0.15											
			0.XXX	±0.05											
ASME Y14.5		angular	0°	±3°	www.fci.com	cat. no.	-	Product - Customer Drw				sheet 2 of 8			



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0.5 BTB HERMAPHRODITIC CONNECTOR ASSEMBLY PART NUMBER SCHEME
EXAMPLE: 10106814-XX X X X 2 LF

NUMBER OF POSITIONS
02 = 20 POS
03 = 30 POS
04 = 40 POS
05 = 50 POS
06 = 60 POS
07 = 70 POS
08 = 80 POS
09 = 90 POS

PRACTICAL CONNECTOR HEIGHT NOTE 8
1 = 2.0MM
2 = 2.5MM
3 = 3.0MM
4 = 3.5MM

LEAD FREE INDICATOR

PACKAGING	
2	TAPE AND REEL WITH PICK-UP CAP

CONTACT PLATING	
0	GENERAL PLATING PER PERFORMANCE REQUIRED BY PRODUCT SPECIFICATION
1	30u" GXT(SPECIAL)

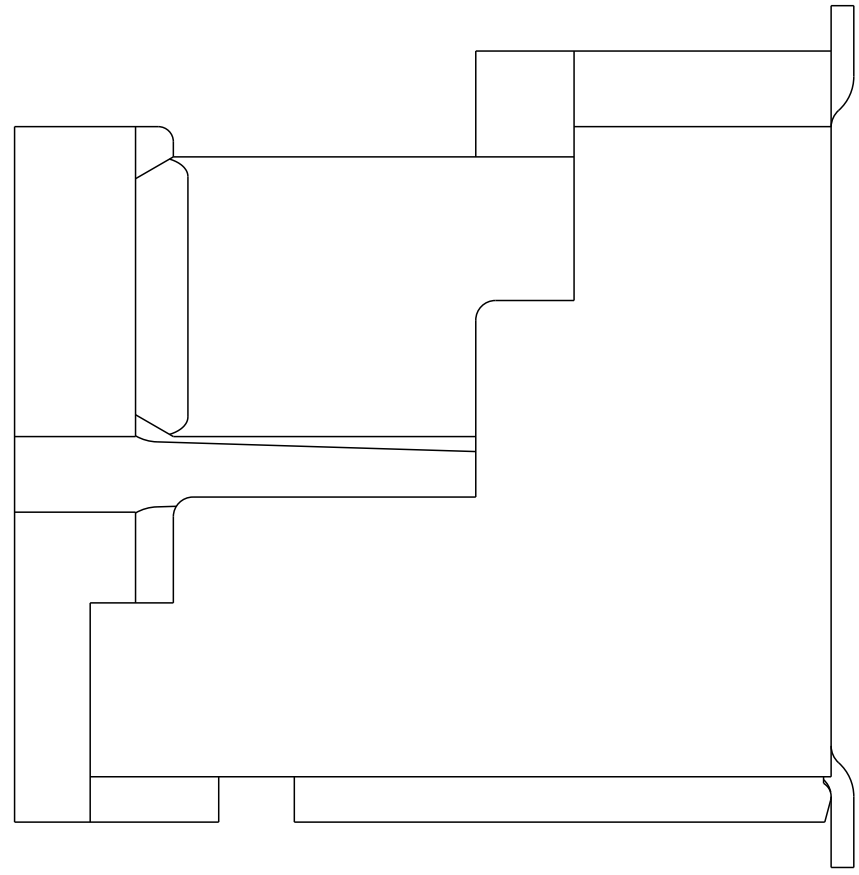
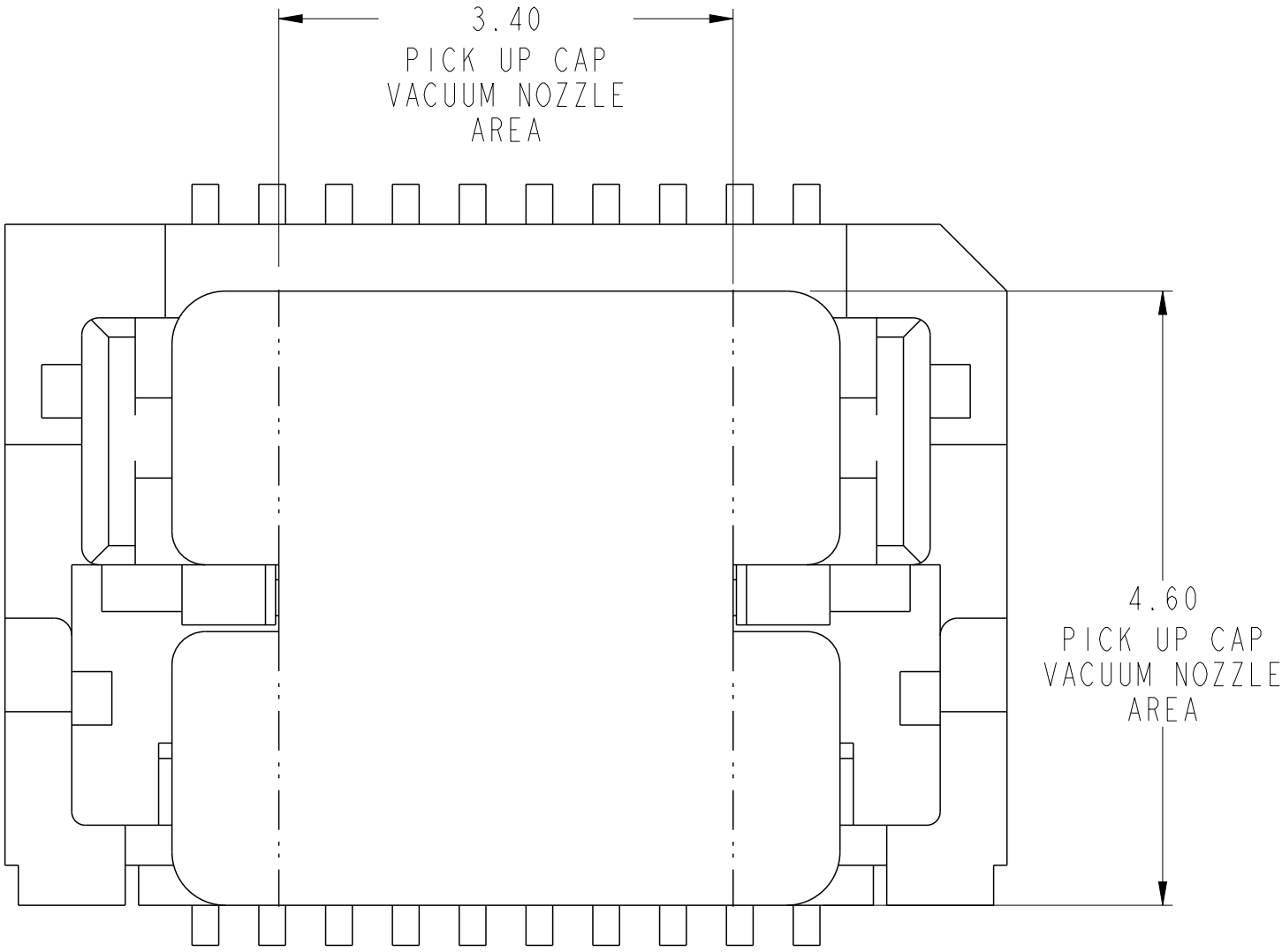
PEG OPTION	
0	NO PEGS
2	PEGS

spec ref		---		dr		Stu Stoner		2010/11/22		projection				size		A2		scale		10:1											
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Lu		2015/07/15						ecn no		ELX-DG-21387-1															
ASME Y14.5				chr		-		-						rel level		Released															
				appr		Pei-Ming Zheng		2015/07/15		product family		MezzoStak																			
surface				linear		0.X		±0.3				title		HERMAPHRODITIC CONNECTOR,SHORT STYLE 20-90 POS, 0.5MM CTR, 4-7MM STACK HT						dwg no		10106814						rev		D	
						0.XX		±0.15																							
						0.XXX		±0.05																							
ASME Y14.5				angular		0°		±3°		www.fci.com		cat. no.		-		Product - Customer Drw						sheet 3 of 8									

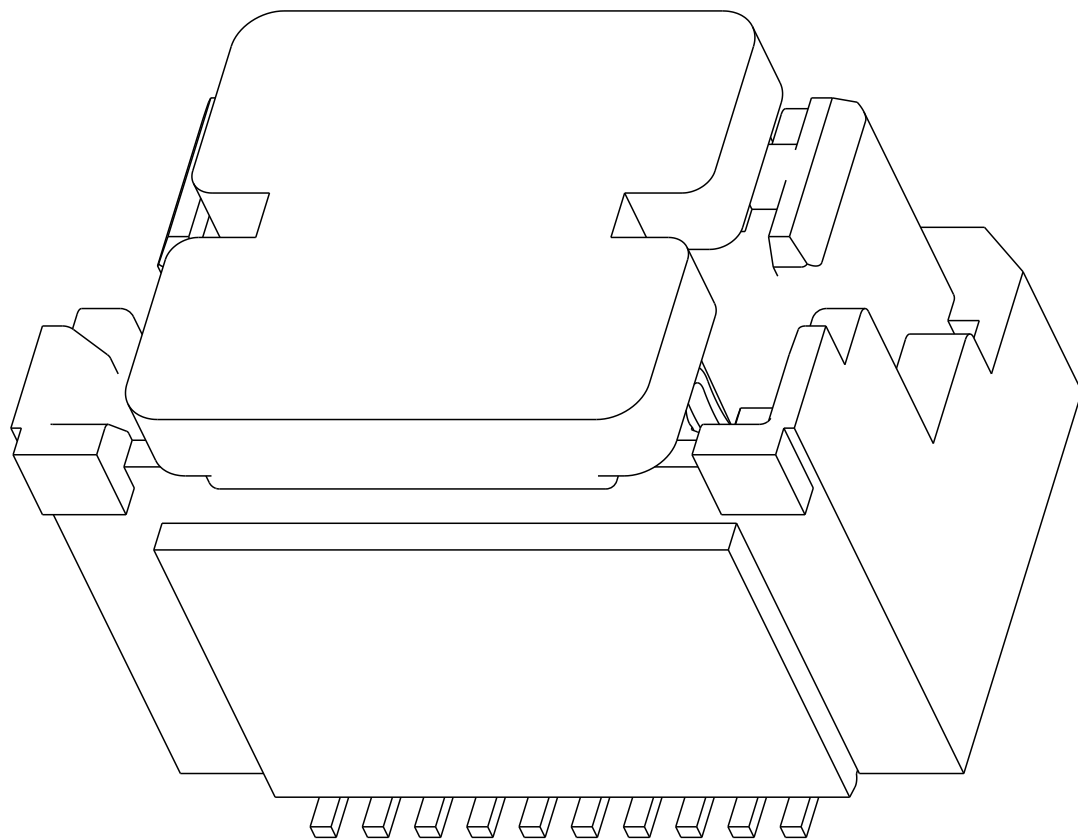
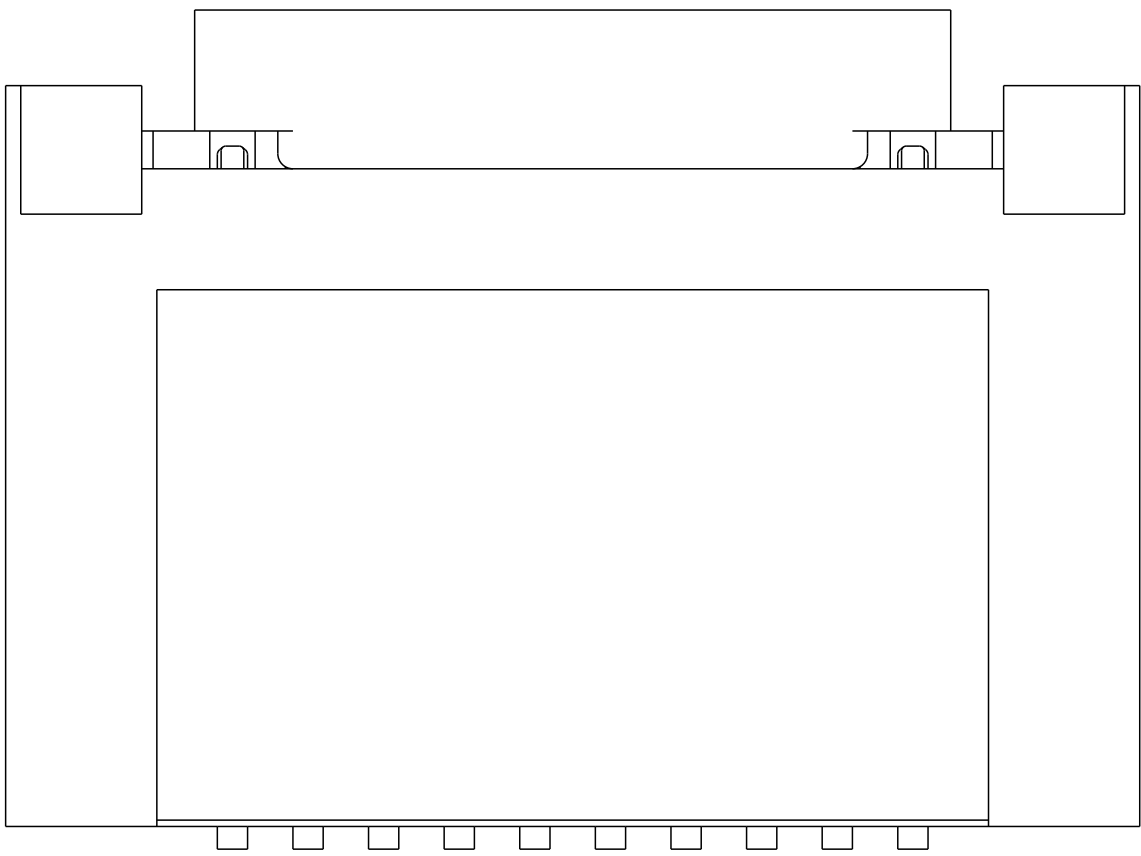
PDS: Rev :D

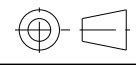
STATUS:Released

Printed: Jul 16, 2015

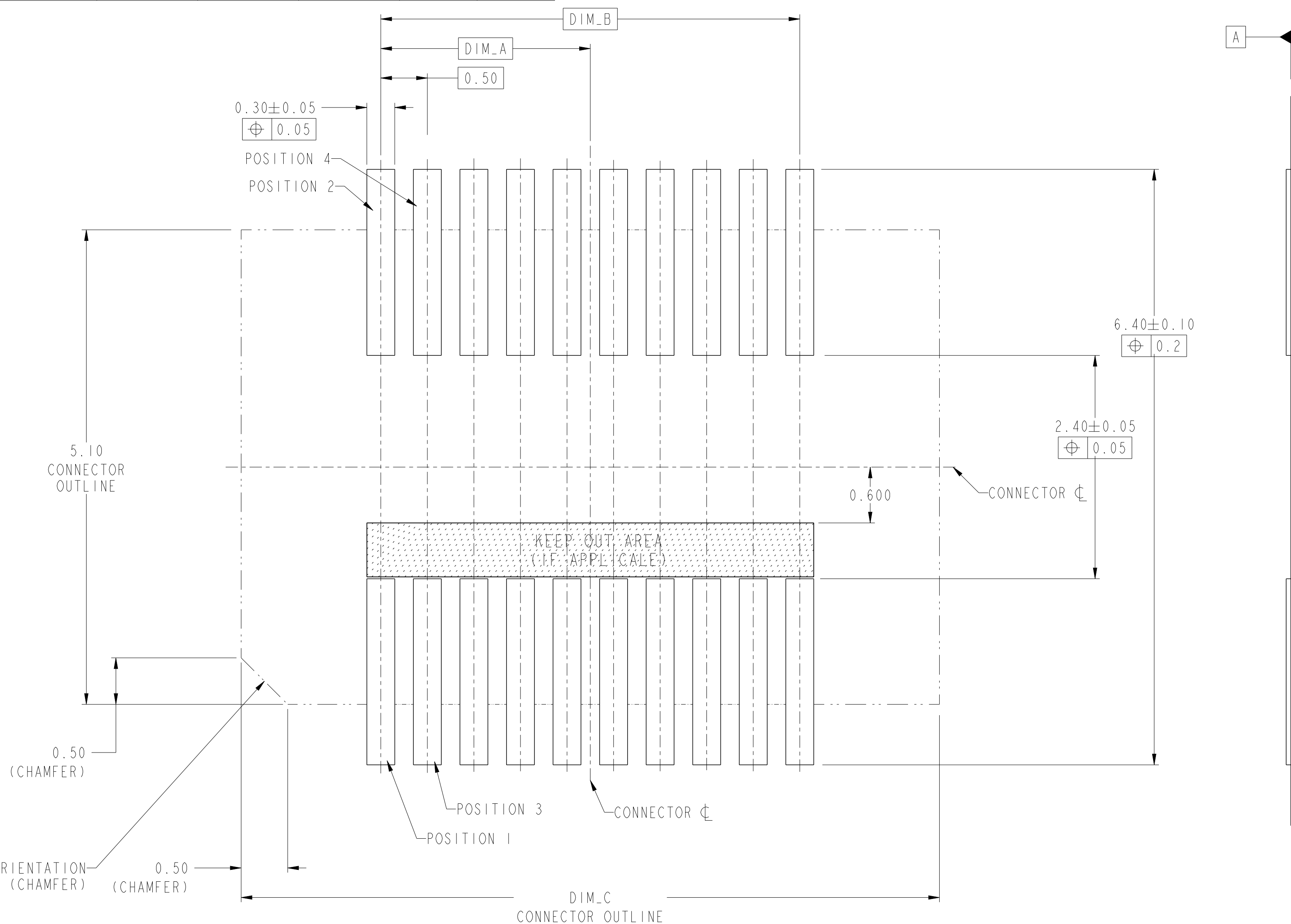


10106814-024002LF SHOWN
WITH STANDARD PICK-UP CAP



spec ref		---		dr		Stu Stoner		2010/11/22		projection				mm		size		A2		scale		20:1	
tolerance std		ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Lu		2015/07/15		chr		-		ecn no		ELX-DG-21387-1					
						appr		Pei-Ming Zheng		2015/07/15		product family		MezzoStack		rel level		Released					
surface		- / ✓		linear		0.X		±0.3		FCI		title		HERMAPHRODITIC CONNECTOR, SHORT STYLE		dwg no		10106814		rev		D	
ASME Y14.5				0.XX		±0.15						20-90 POS, 0.5MM CTR, 4-7MM STACK HT											
				0.XXX		±0.05																	
				angular		0°		±3°		www.fci.com		cat. no.		-		Product - Customer Drw				sheet 4 of 8			

1		2		3		4	5	6	7	8
PRODUCT NUMBER	NUMBER OF POSTIONS	DIM A	DIM B	DIM C	PEGS STATUS	DIM D				
10106814-02X002LF	20	2.25	4.50	7.50	NO	N/A				
10106814-03X002LF	30	3.50	7.00	10.00	NO	N/A				
10106814-04X002LF	40	4.75	9.50	12.50	NO	N/A				
10106814-05X002LF	50	6.00	12.00	15.00	NO	N/A				
10106814-06X002LF	60	7.25	14.50	17.50	NO	N/A				
10106814-07X002LF	70	8.50	17.00	20.00	NO	N/A				
10106814-08X002LF	80	9.75	19.50	22.50	NO	N/A				
10106814-09X0X2LF	90	11.00	22.00	25.00	NO	N/A				
10106814-08X202LF	80	9.75	19.50	22.50	YES	22.00				
10106814-09X202LF	90	11.00	22.00	25.00	YES	24.50				



OPTION 2 - FOOTPRINT
SEE TABLE FOR CONNECTOR LAYOUT DIMENSIONS
SEE NOTE 8 FOR STENCIL CREATION GUIDELINES

spec ref		---		dr		Stu Stoner		2010/11/22		projection		mm		size		A2		scale		10:1									
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Lu		2015/07/15						ecn no		ELX-DG-21387-1													
ASME Y14.5				chr		-		-						rel level		Released													
				appr		Pei-Ming Zheng		2015/07/15		product family		MezzoStack																	
surface  ASME Y14.5		linear		0.X		±0.3				title		HERMAPHRODITIC CONNECTOR, SHORT STYLE 20-90 POS, 0.5MM CTR, 4-7MM STACK HT										dwg no		10106814		rev		D	
				0.XX		±0.15																							
				0.XXX		±0.05																							
		angular		0°		±3°		www.fci.com		cat. no.		-		Product - Customer Drw															

1

2

3

4

5

6

7

8

A

B

C

D

E

F

A

B

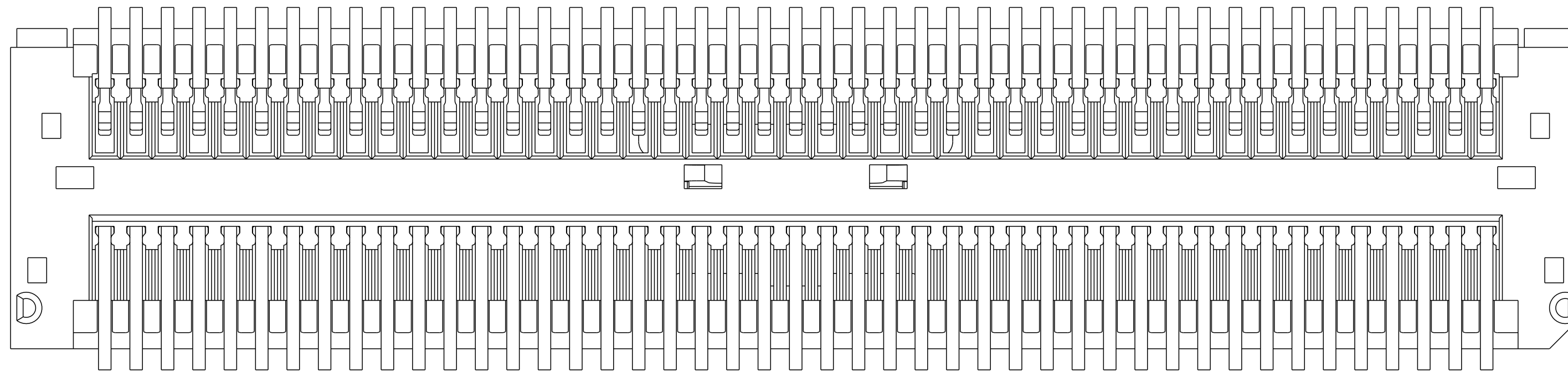
C

D

E

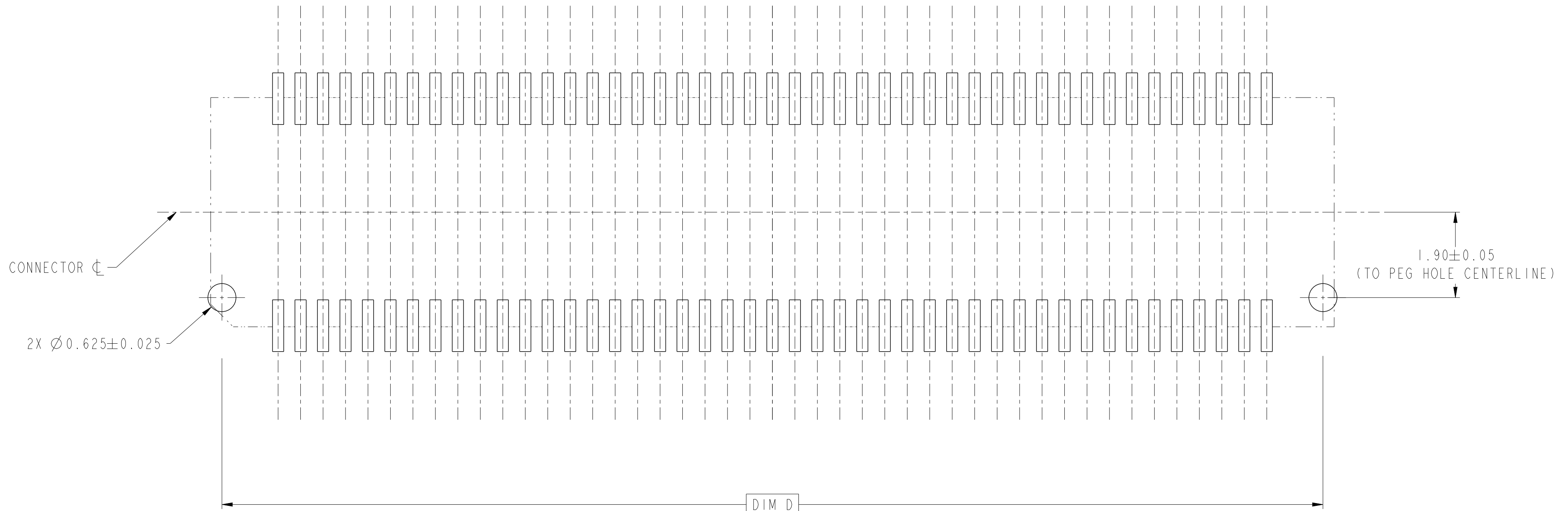
F

10106814-0932X2LF SHOWN



SCALE 15:1

2X (Ø0.50) PEGS FEATURE
ONLY FOR 10106814-083202LF
AND 10106814-093202LF



PCB LAYOUT FOR 10106814-083202LF AND 10106814-093202LF
OTHER DIMENSIONS, SEE SHEET 5 AND 6

SCALE 15:1

spec ref	---	dr	Stu Stoner	2010/11/22	projection	mm	size	A2	scale	10:1
tolerance std	ASME Y14.5	eng	Andy Lu	2015/07/15	chr	-	ecn no	ELX-DG-21387-1	rel level	Released
surface	✓	appr	Pei-Ming Zheng	2015/07/15	product family	MezzoStack	title	HERMAPHRODITIC CONNECTOR, SHORT STYLE	dwg no	10106814
ASME Y14.5	linear	0.X	±0.3	0.XX	±0.15	0.XXX	±0.05	angular	0°	±3°
www.fci.com	cat. no.	-	Product - Customer Drw	sheet 7 of 8	rev	D				

PDS: Rev :D

STATUS:Released

Printed: Jul 16, 2015

2

3

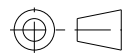
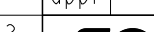
4

5

1

NOTES

- 1 - MATERIAL:
HOUSING - HIGH-TEMPERATURE THERMOPLASTIC, UL94-V0, COLOR: BLACK
CONTACTS: COPPER ALLOY
CONTACT PLATING:
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION.
SOLDER TAILS: GOLD FLASH.
- 2 - RECOMMENDED LEAD FREE SOLDER PASTE THICKNESS 150µm.
- 3 - THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 30 SECONDS IN A CONVECTION INFRA RED OR VAPOR PHASE REFLOW OVEN.
- 4 - THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGUGULATION AS DESCRIBED IN GS-22-008
- 5 - PACKAGING TAPE AND REEL. PACKAGING SPECIFICATION GS-14-1320, PRODUCT SPECIFICATION GS-12-1322.
- 6 - PRACTICAL CONNECTOR HEIGHT AS SPECIFIED IN THE TABLE IS NOT THE DIMENSIONAL HEIGHT OF THE CONNECTOR BUT THE HEIGHT AS IT PERTAINS TO TOTAL STACK HEIGHT. AN EXAMPLE IS A CONNECTOR WITH A 2.5MM PRACTICAL CONNECTOR HEIGHT, WHEN MATED TO ITSELF WILL RESULTING IN A BOARD TO BOARD STACK HEIGHT OF 5MM.
- 7 - DISCRETE CONNECTOR HEIGHT AS SHOWN IN THE TABLE IS THE ACTUAL DIMENSIONAL CONNECTOR HEIGHT. ALSO SEE INFORMATION ON PRACTICAL HEIGHT IN NOTE 6.
- 8 - REFER TO IPC 7525-A FOR STENCIL CREATION.

spec ref				---		dr		Stu Stoner		2010/11/22		projection				mm		size		A2		scale		20:1							
tolerance std				TOLERANCES UNLESS OTHERWISE SPECIFIED						eng		Andy Lu		2015/07/15				ecn no		ELX-DG-21387-1											
ASME Y14.5										chr		-								rel level		Released									
										appr		Pei-Ming Zheng		2015/07/15		product family		MezzoStak													
surface				linear		0.X		±0.3				title		HERMAPHRODITIC CONNECTOR,SHORT STYLE 20-90 POS, 0.5MM CTR, 4-7MM STACK HT						dwg no		10106814						rev		D	
				0.XX		±0.15																									
				0.XXX		±0.05																									
ASME Y14.5				angular		0°		±3°		www.fci.com		cat. no.		-		Product - Customer Drw						sheet 8 of 8									