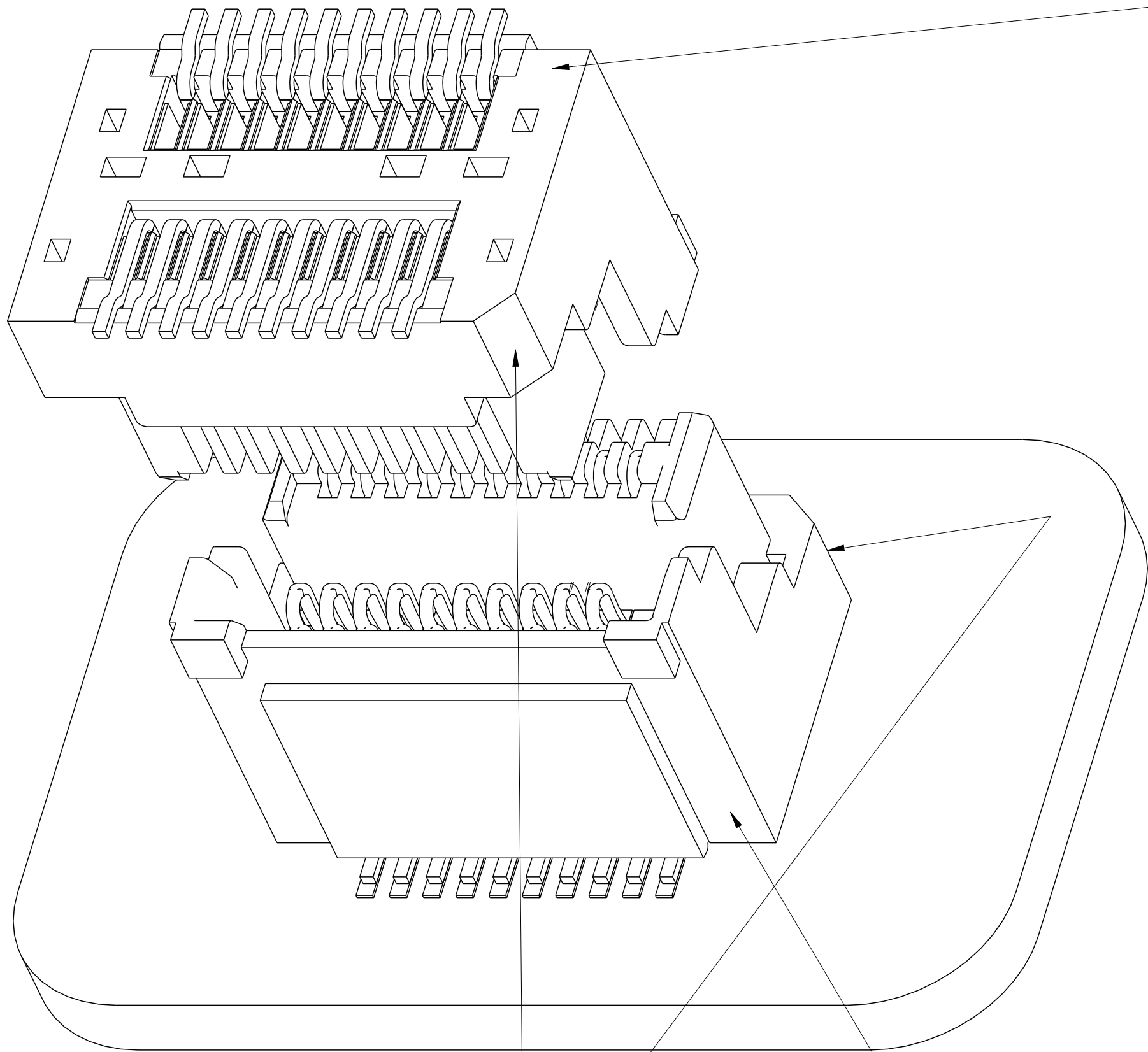
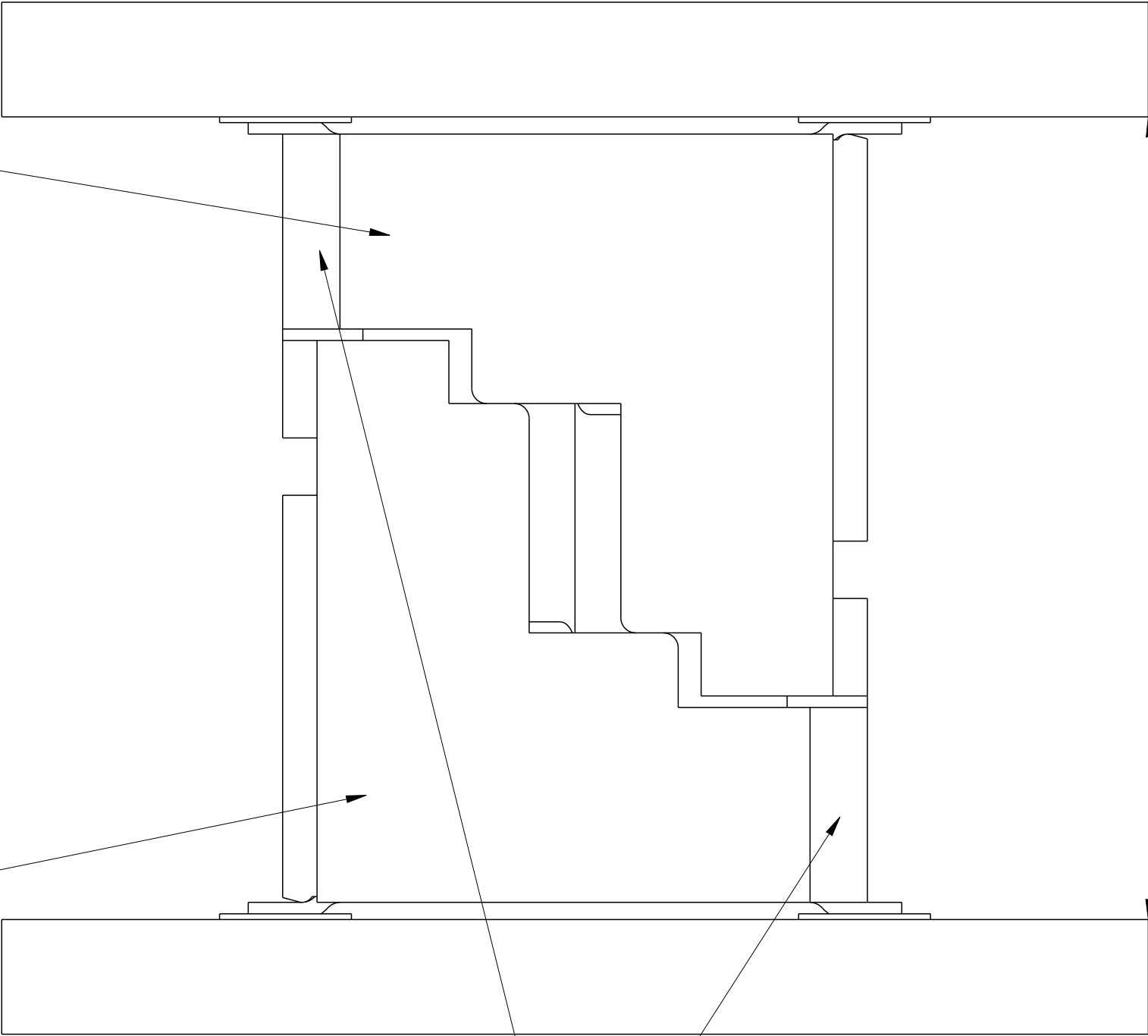


PRODUCT NUMBER
10106814-0XX002LF



10106814-0XX002LF
HERMAPHRODITIC CONNECTOR
ASSEMBLY



PRINTED
CIRCUIT
BOARD

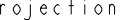
CONNECTOR ORIENTATION
FEATURE
SEE PCB LAYOUT ON PAGE 5

10106814-0XX002LF
HERMAPHRODITIC CONNECTOR
ASSEMBLY

CONNECTOR ORIENTATION
FEATURE
SEE PCB LAYOUT ON PAGE 5



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spec ref		---		dr		Stu Stoner		2010/11/22		projection				size		A2		scale		11:1	
tolerance std		---		eng		Heaven Cen		2012/05/24		chr		-		ecn no		ELX-DG-010892-1		rel level		Released	
---		TOLERANCES UNLESS OTHERWISE SPECIFIED		appr		Collins Lu		2012/05/24		product family		MezzoStak		rel level		Released					
surface		✓		linear		0.X		±0.3		FCi		title		HERMAPHRODITIC CONNECTOR, SHORT STYLE		dwg no		10106814		rev	
						0.XX		±0.10						20-70 POS, 0.5MM CTR, 4-7MM STACK HT						C	
---				angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 1 of 8			

PDS: Rev :C

STATUS:Released

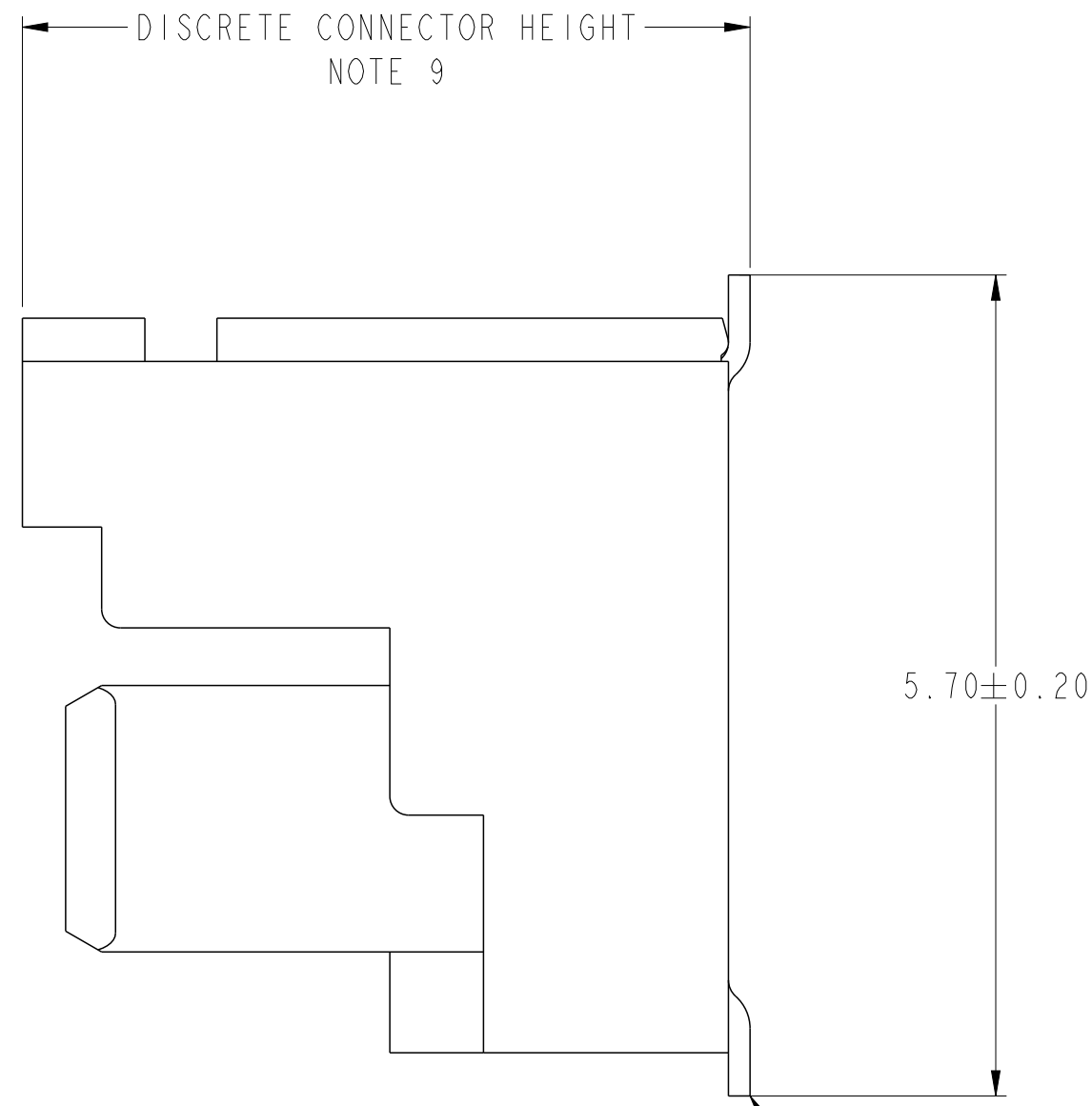
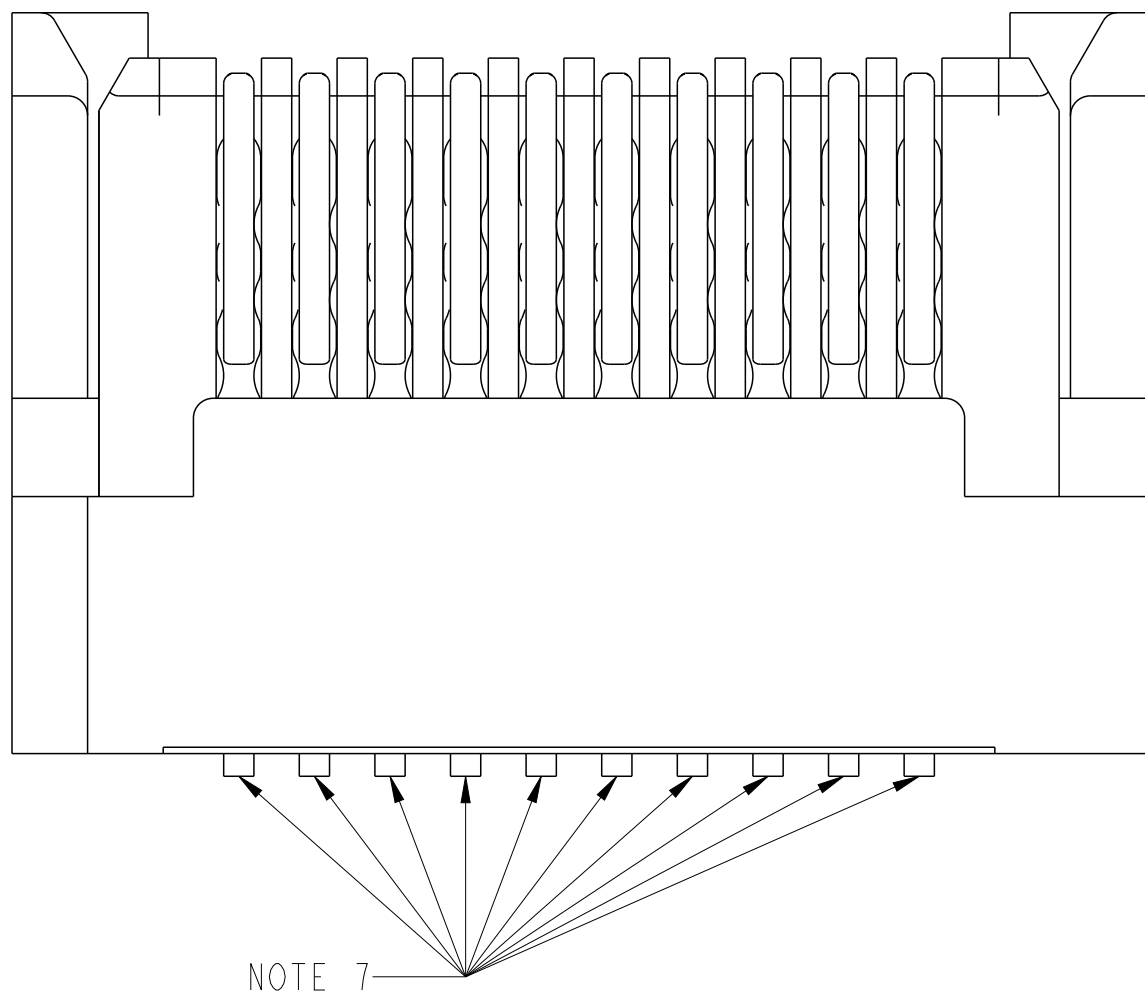
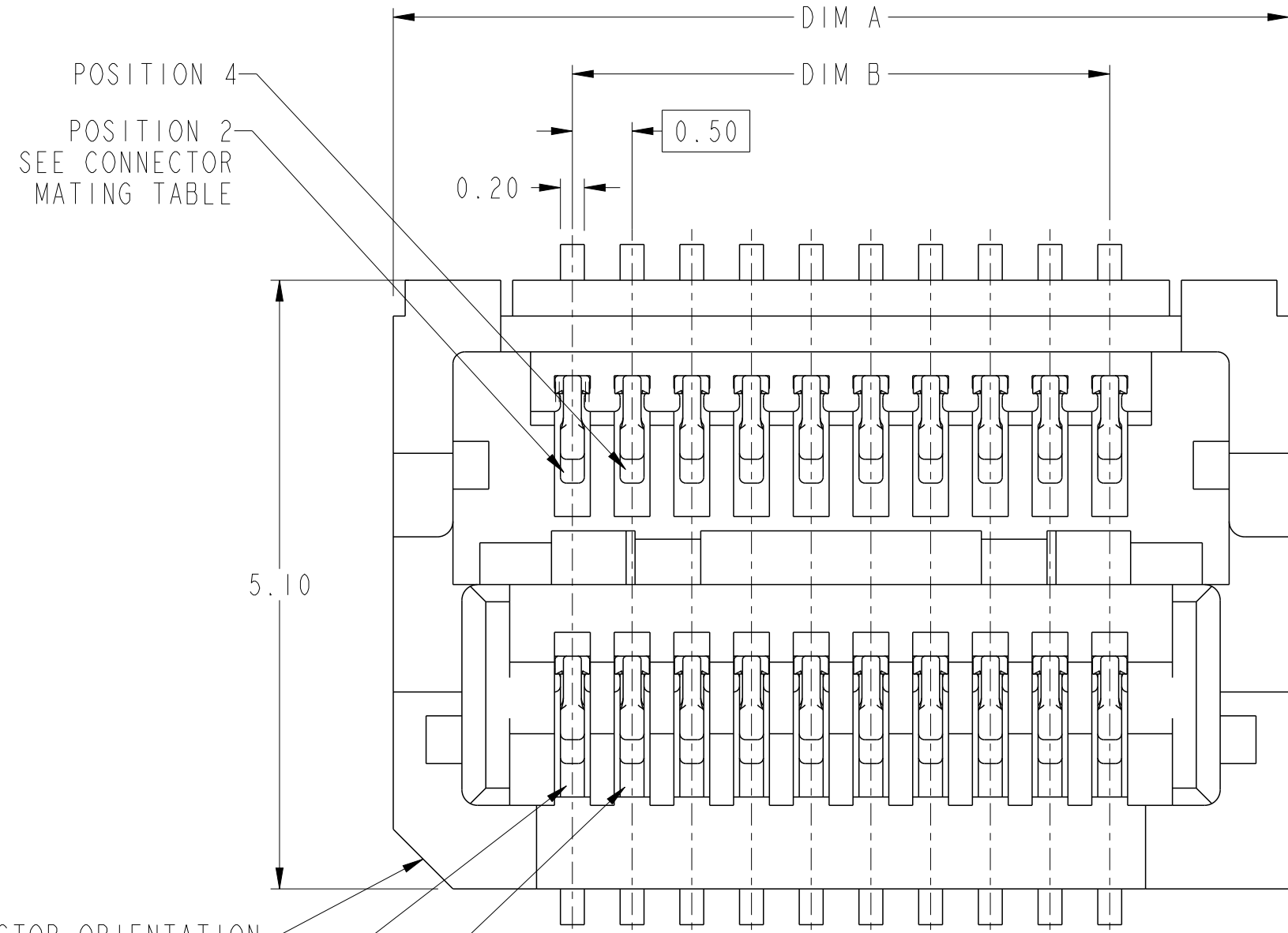
Printed: May 25, 2012

POSITION 4
POSITION 2
SEE CONNECTOR
MATING TABLE

CONNECTOR ORIENTATION
FEATURE

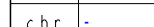
POSITION 1
SEE CONNECTOR
MATING TABLE

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		11:1	
tolerance std		---		eng		Heaven Cen		2012/05/24						ecn no		ELX-DG-010892-1					
---		chr		-		-		rel level						Released							
---		appr		Collins Lu		2012/05/24		product family						MezzoStak							
surface		✓		linear				title		HERMAPHRODITIC CONNECTOR, SHORT STYLE		dwg no		10106814		rev		C			
---		0.X		±0.3				20-70 POS, 0.5MM CTR, 4-7MM STACK HT													
---		0.XX		±0.10																	
---		0.XXX		±0.05																	
---		angular		0°		±2°		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 0 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

LEAD FREE INDICATOR

PACKAGING

2

TAPE AND REEL
WITH PICK-UP CAP

PEG OPTION

0 = NO PEGS

2 = PEGS

PRACTICAL CONNECTOR
HEIGHT
NOTE 8

1 = 2.0MM

2 = 2.5MM

3 = 3.0MM

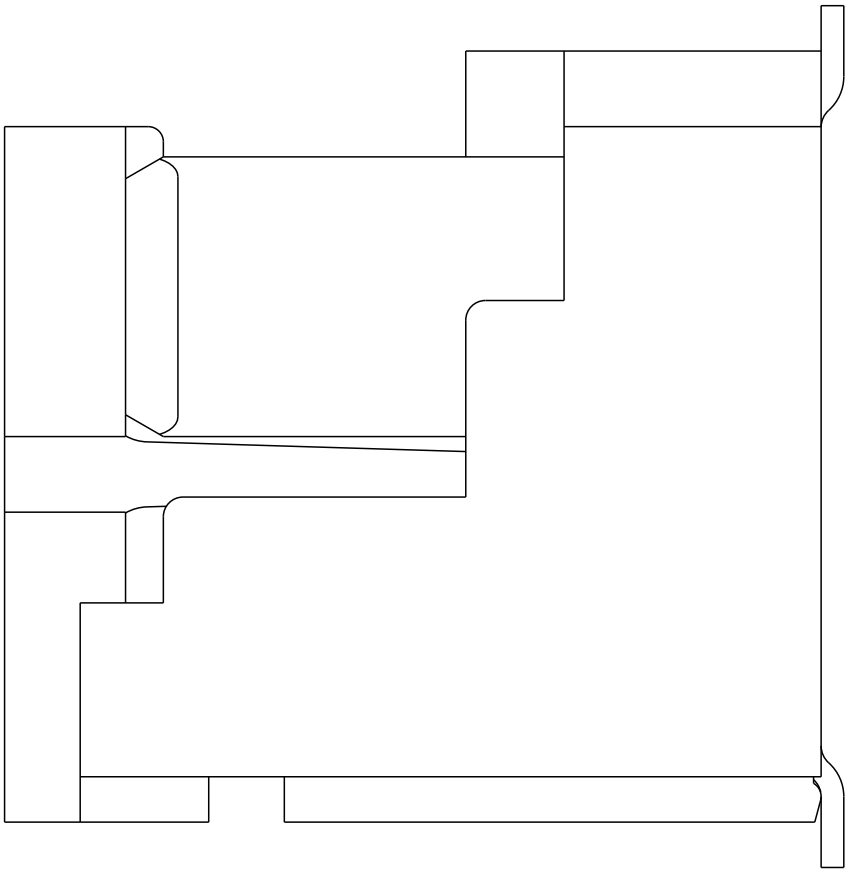
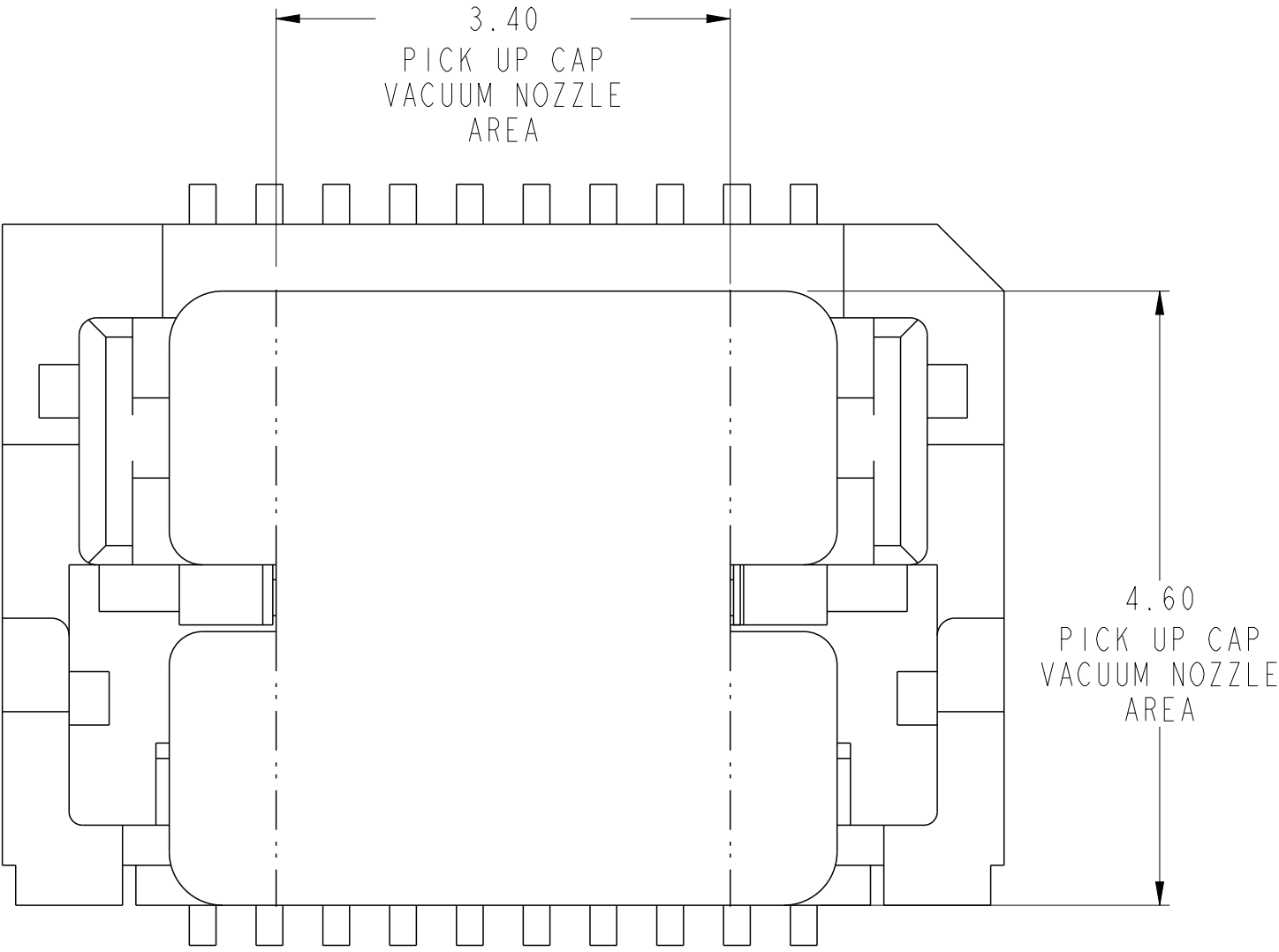
4 = 3.5MM

spec ref	---	dr	Stu Stoner	2010/11/22	projection	mm	size	A2	scale	10:1
tolerance std	---	eng	Heaven Cen	2012/05/24	chr	-	ecn no	ELX-DG-010892-1		
---		appr	Collins Lu	2012/05/24	product family	MezzoStak	rel level	Released		
surface	✓	linear	0.X	±0.3	FCI	title	HERMAPHRODITIC CONNECTOR,SHORT STYLE	eng no	10106814	rev
---		angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 3 of 8	C

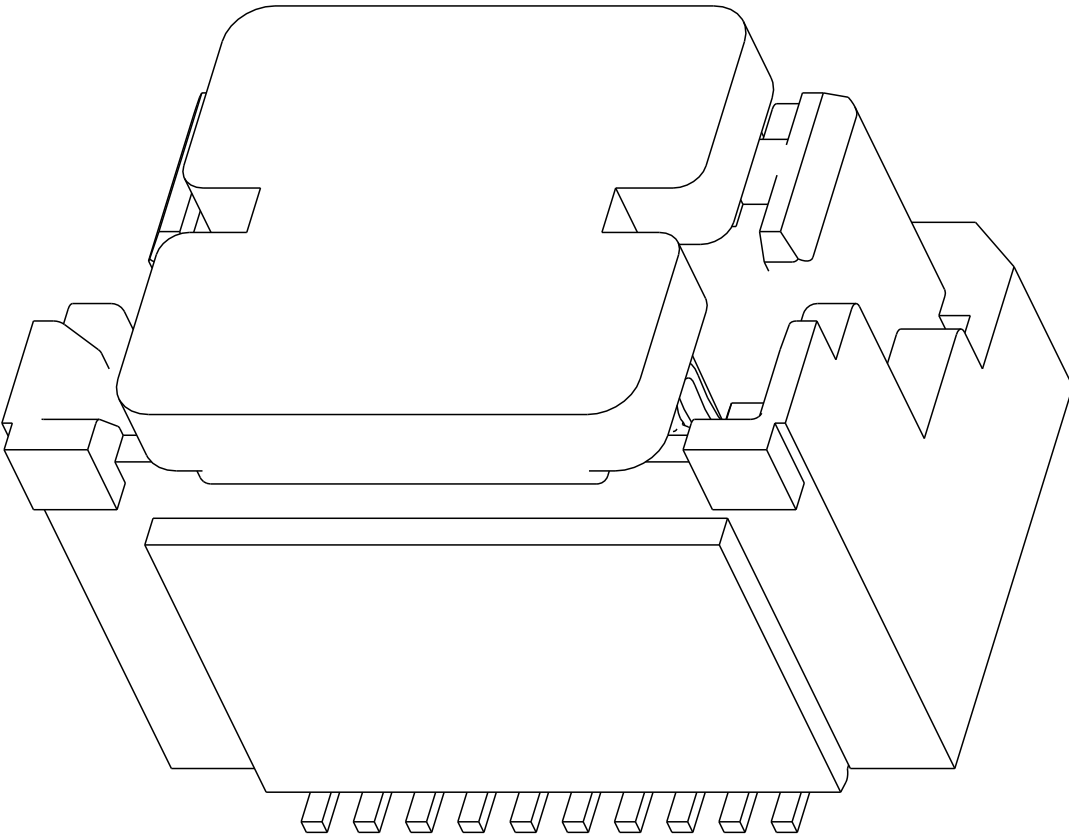
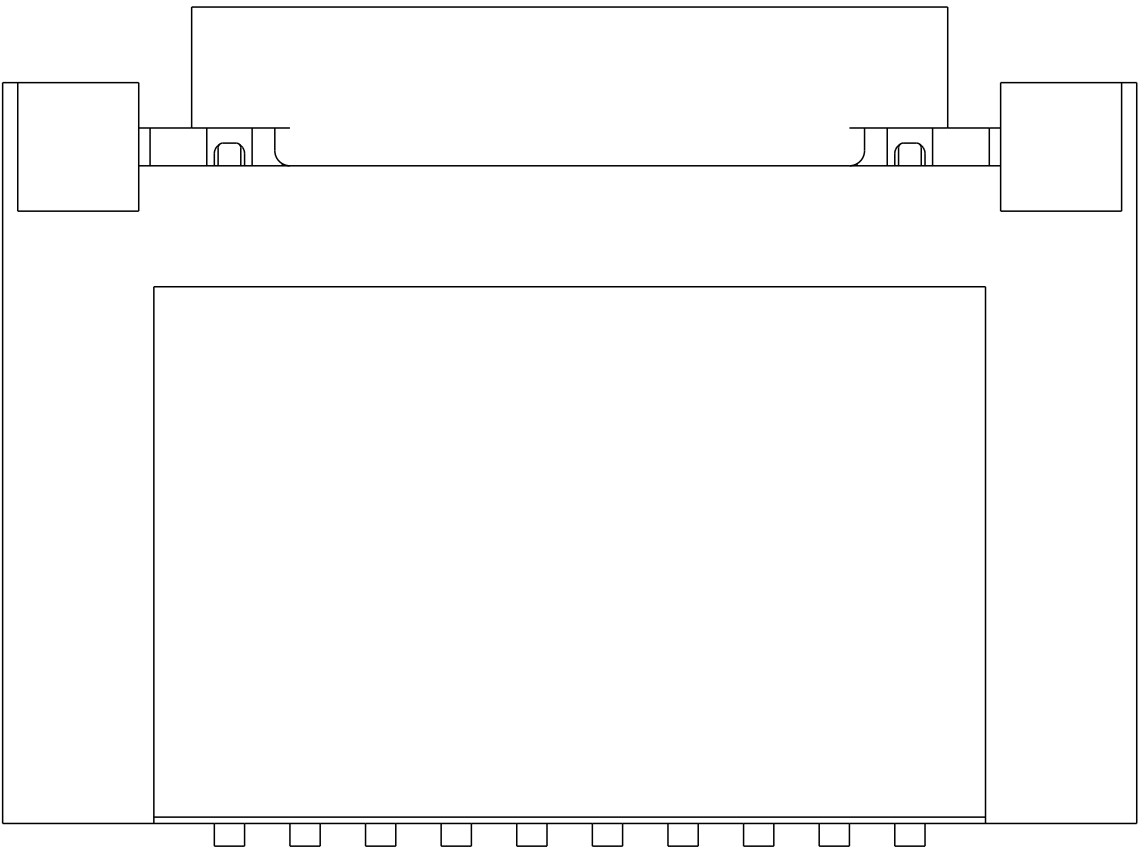
PDS: Rev :C

STATUS:Released

Printed: May 25, 2012



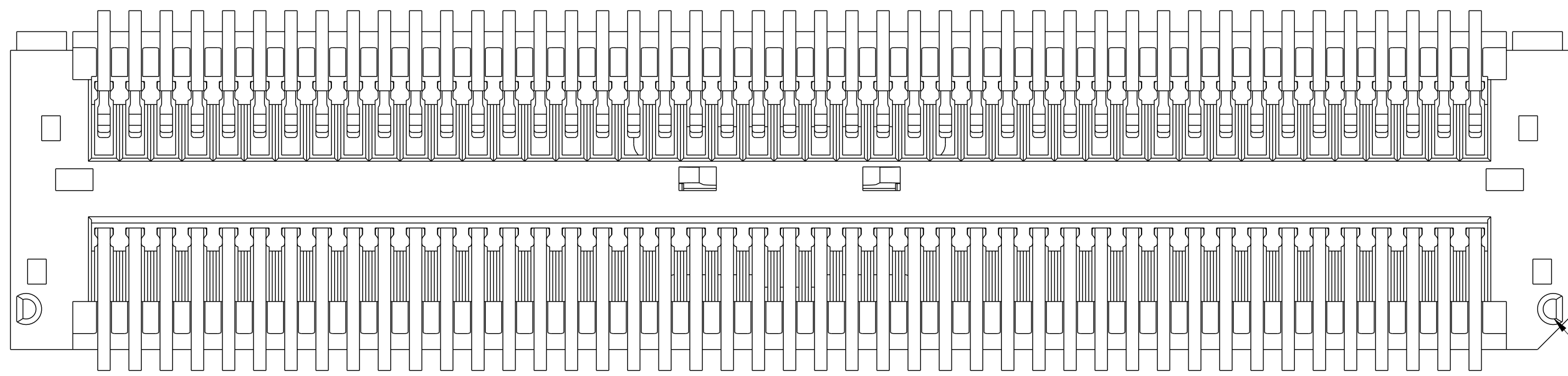
10106814-024002LF SHOWN
WITH STANDARD PICK-UP CAP



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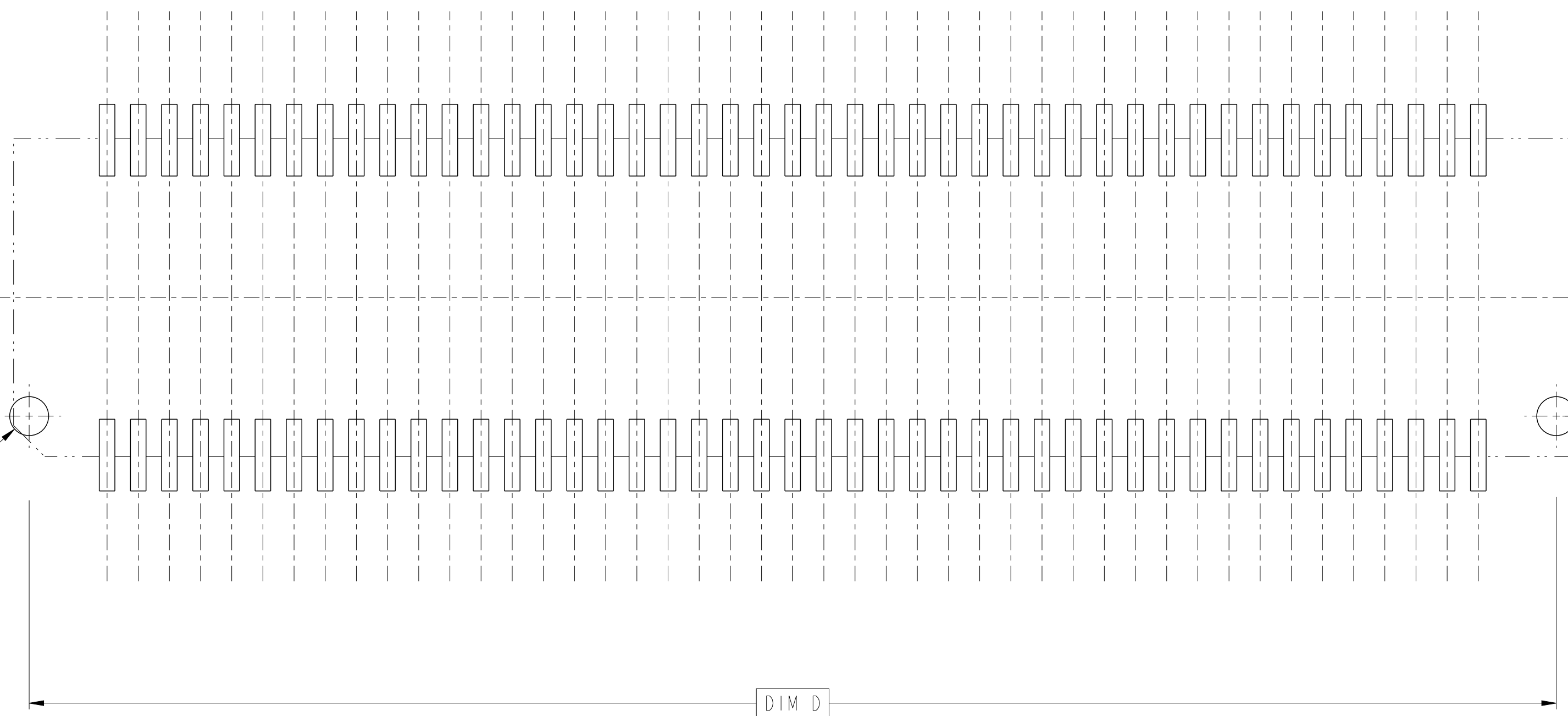
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TOLERANCES UNLESS OTHERWISE SPECIFIED				chr -		2012/05/24						rel level Released					
---				appr Collins Lu		2012/05/24		product family MezzoStak				rel level Released					
surface 		linear		0.X		±0.3				title		HERMAPHRODITIC CONNECTOR, SHORT STYLE 20-70 POS, 0.5MM CTR, 4-7MM STACK HT		dwg no 10106814		rev C	
				0.XX		±0.10											
		0.XXX		±0.05													
---		angular		0°		±2°		www.fci.com		cat. no. -		Product - Customer Drw				sheet 4 of 8	

10106814-093202LF 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		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Heaven Cen		2012/05/24						ecn no		ELX-DG-010892-1							
chr				-		-		rel level						Released									
---				appr		Collins Lu		2012/05/24						product family		MezzoStak							
surface		✓		linear		0.X		±0.3				title		HERMAPHRODITIC CONNECTOR, SHORT STYLE		dwg no		10106814		rev		C	
---		0.XX		±0.10																			
---		0.XXX		±0.05																			
angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 7 of 8									

PDS: Rev :C

STATUS:Released

Printed: May 25, 2012

NOTES

1 - MATERIAL:
HOUSING - LCP, UL94-V0, COLOR: BLACK
CONTACTS:
CONTACT PLATING:
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-577.
SOLDER TAILS: 0.10µm Au.

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. SEE APPLICATION SPECIFICATION.

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

6 - PRODUCT SPECIFICATION GS-12-577

⑦- LEAD CO-PLANARITY TO BE 0.08MM MAX.

⑧- 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.

⑨- DISCRETE CONNECTOR HEIGHT AS SHOWN IN THE TABLE IS THE ACTUAL DIMENSIONAL CONNECTOR HEIGHT. ALSO SEE INFORMATION ON PRACTICAL HEIGHT IN NOTE 8.

⑩- THE TOE HEIGHT OF THE SOLDER TAIL SHALL BE MEASURED FROM THE LOWEST POINT OF THE 0.08 COPLANARITY PLANE. THIS MEASUREMENT SHALL NOT EXCEED A WINDOW OF 0.00 TO 0.10MM.

⑪- REFER TO IPC 7525-A FOR STENCIL CREATION

spec ref		---		dr		Stu Stoner		2010/11/22		projection				size		A2		scale		11:1			
tolerance std				eng		Heaven Cen		2012/09/24						ecn no		ELX-DG-010892-1							
---		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-						rel level		Released							
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surface		✓		linear		0.X		±0.3				title		HERMAPHRODITIC CONNECTOR,SHORT STYLE 20-70 POS, 0.5MM CTR, 4-7MM STACK HT		dwg no		10106814		rev		C	
---				0.XX		±0.10																	
				0.XXX		±0.05																	
---		angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 8 of 8							