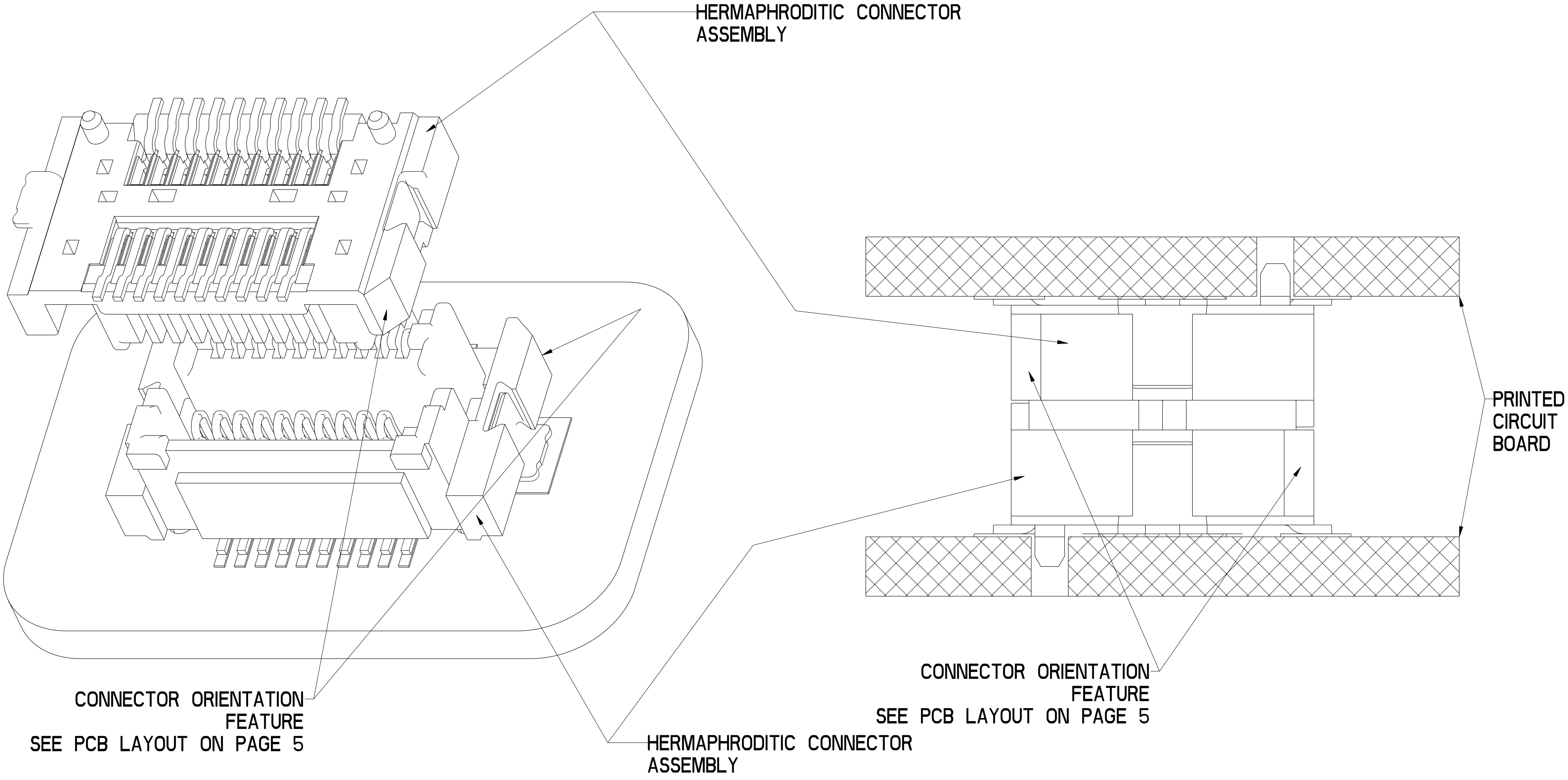


PRODUCT NUMBER
10090503-0XXI12LF



CONNECTOR ORIENTATION
FEATURE
SEE PCB LAYOUT ON PAGE 5

CONNECTOR ORIENTATION
FEATURE
SEE PCB LAYOUT ON PAGE 5

PRINTED
CIRCUIT
BOARD

HERMAPHRODITIC CONNECTOR
ASSEMBLY

PRELIMINARY

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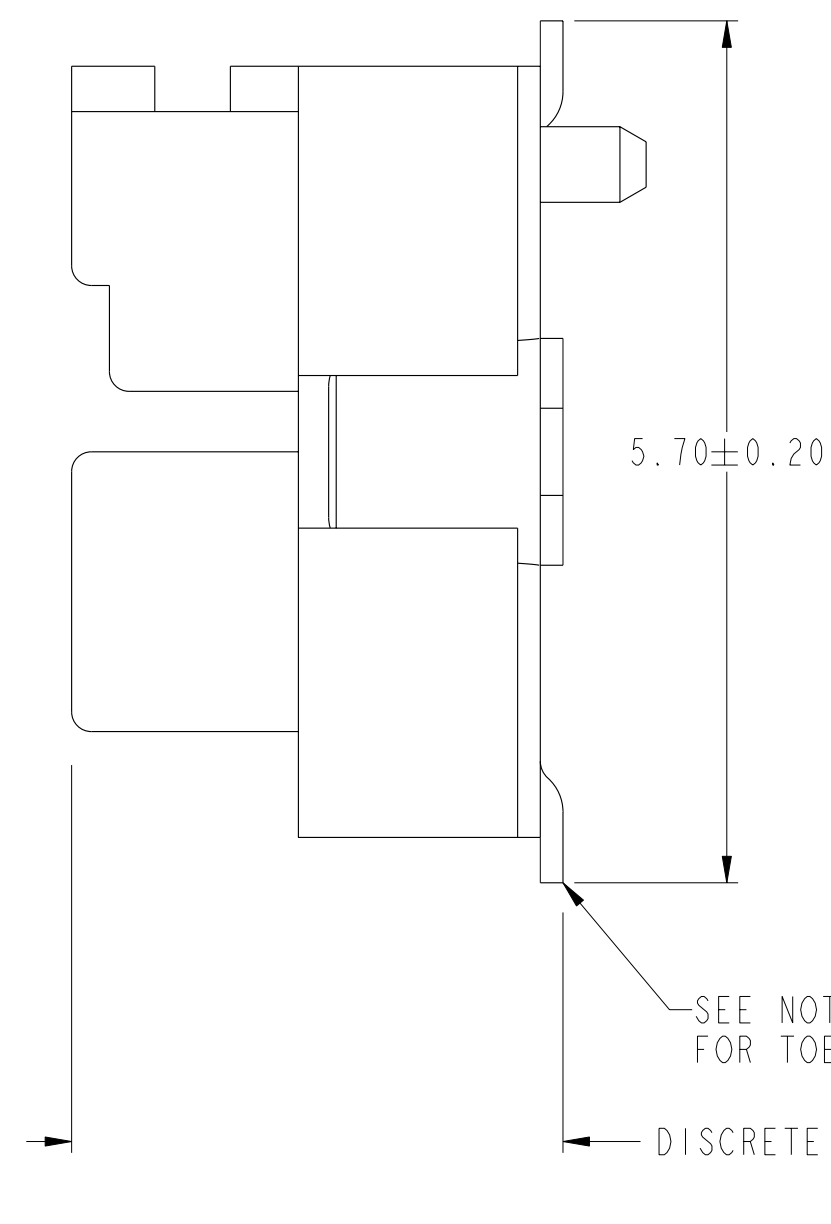
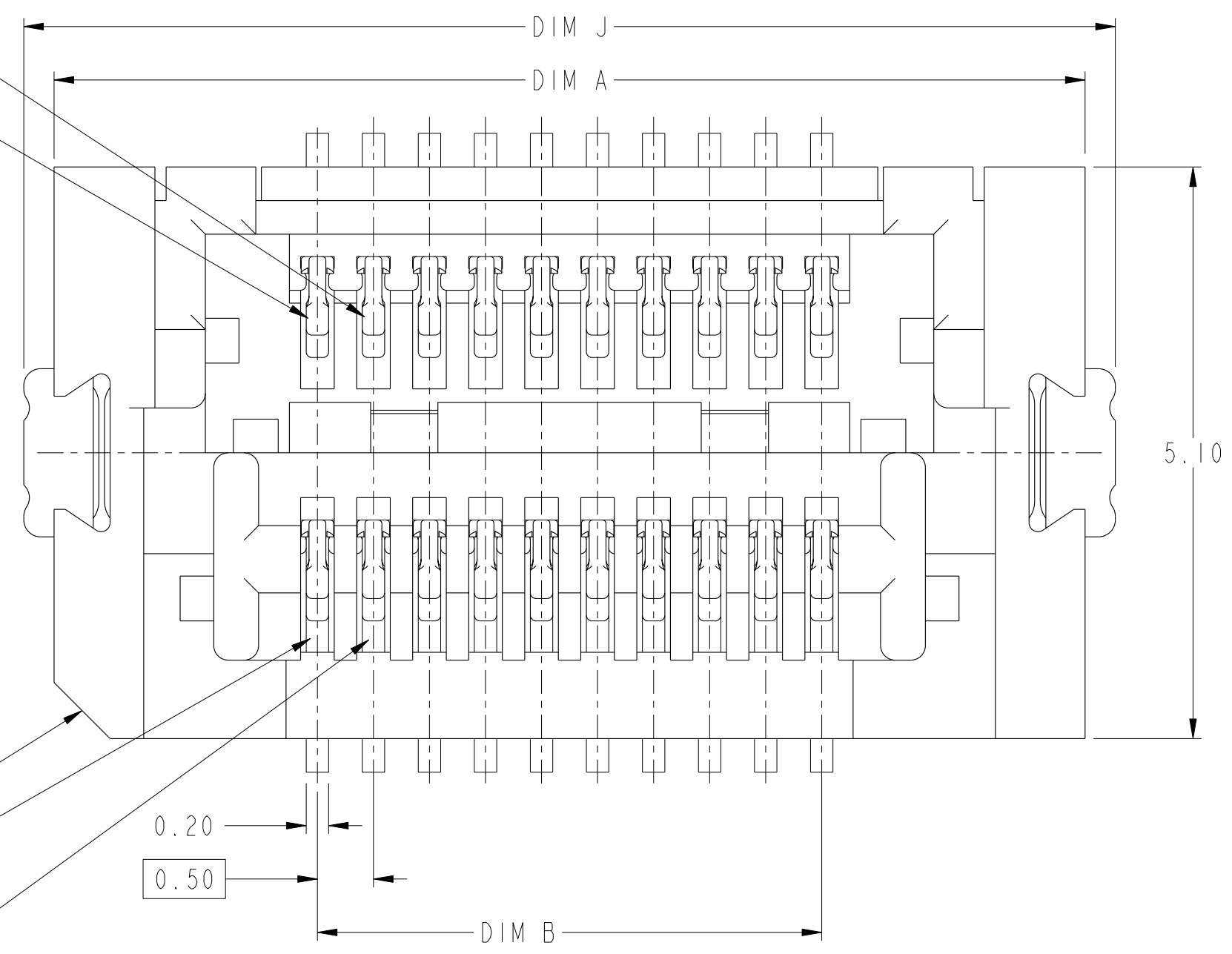
spec ref	---	dr	STU STONER	2009-02-03	projection	mm	size	A2	scale	10:1									
tolerance std	---	eng	STU STONER	2009-02-03			ecn no	rel level	In Work	rev									
---	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	STU STONER	2009-02-03															
---		appr	S MINICH	2009-02-03							product family	MezzoStak							
surface	<table border="1"> <tr> <td rowspan="3"> </td> <td>linear</td> <td>0.X</td> <td>±0.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±0.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±0.05</td> </tr> <tr> <td></td> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table>		linear	0.X	±0.3		0.XX	±0.10		0.XXX	±0.05		angular	0°	±2°		HERMAPHRODITIC CONNECTOR, LONG STYLE 10-70 POS, 0.50 CTR, 4-7MM STACK HT	dwg no 10090503	rev 6
	linear		0.X	±0.3															
			0.XX	±0.10															
		0.XXX	±0.05																
	angular	0°	±2°																
---		www.fci.com	catalog no	-	Product - Customer Drw	sheet 1 of 6													

POSITION 4
 POSITION 2
 SEE CONNECTOR
 MATING TABLE

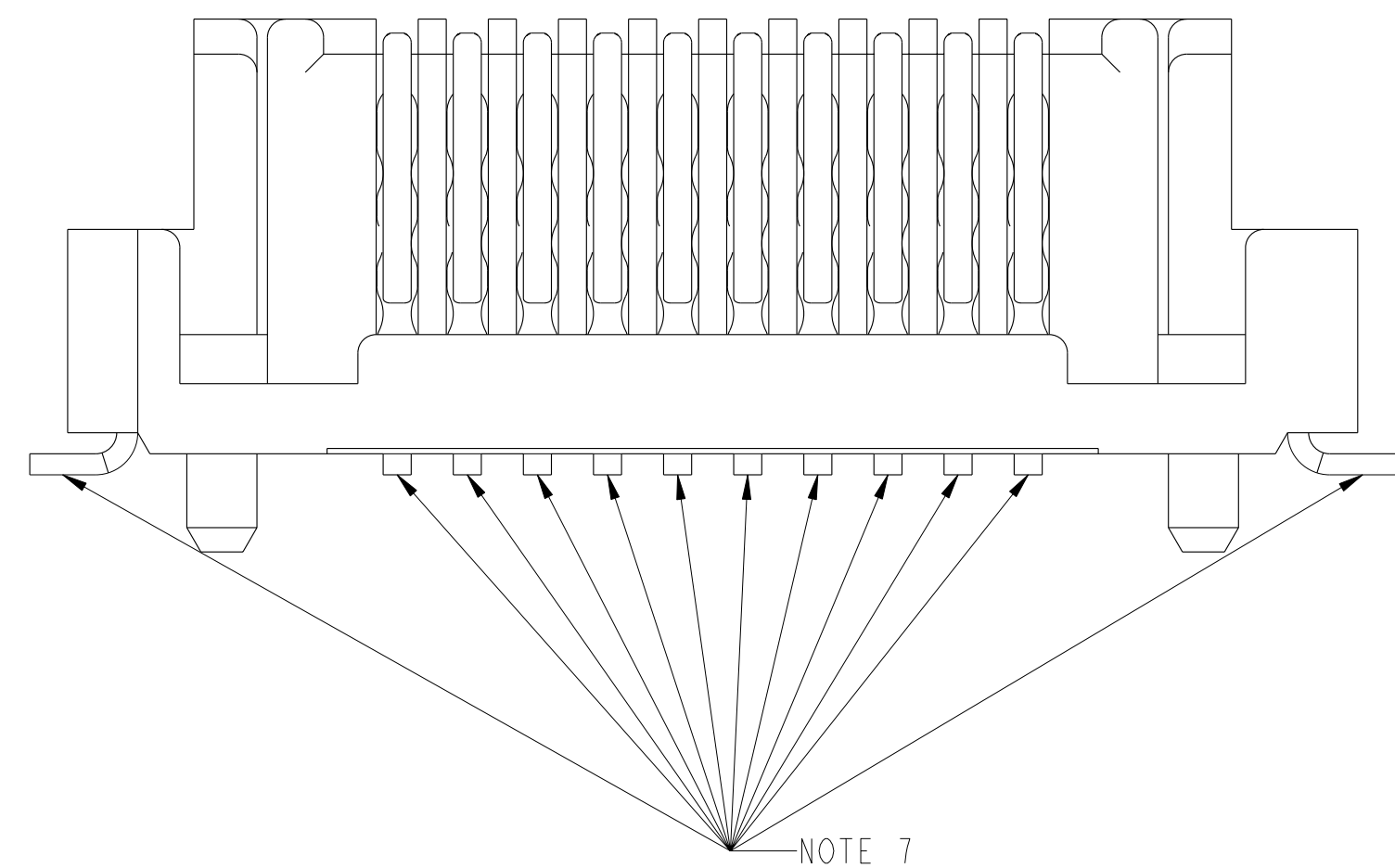
CONNECTOR ORIENTATION
 FEATURE

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.	



10090503-02112LF SHOWN
 WITHOUT STANDARD PICK-UP CAP

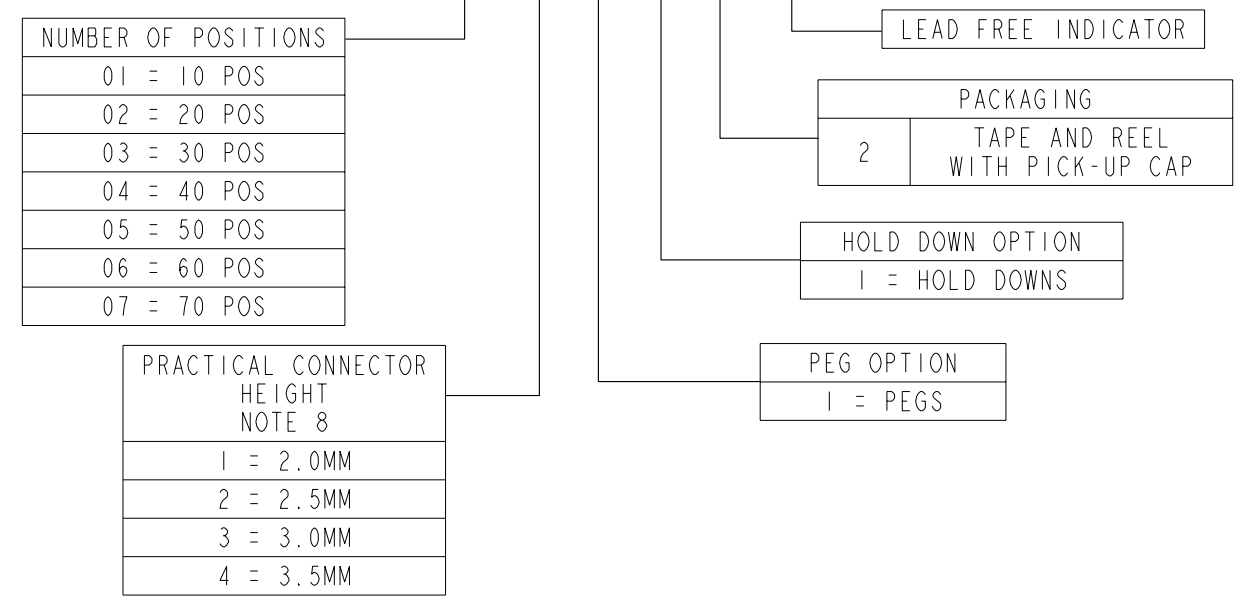
PRELIMINARY

spec ref	---	dr	STU STONER	2009-02-03	projection	mm	size	A2	scale	10:1				
tolerance std	---	eng	STU STONER	2009-02-03		mm	A2	ecn no	rel level	In Work				
---	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	STU STONER	2009-02-03										
---	---	appr	S MINICH	2009-02-03	product family	MezzoStak	rel level	In Work						
surface	✓	linear	0.X	±0.3		HERMAPHRODITIC CONNECTOR, LONG STYLE 10-70 POS, 0.50 CTR, 4-7MM STACK HT	dwg no 10090503	rev 6						
			0.XX	±0.10					www.fci.com	catalog no	Product - Customer Drw	sheet 2 of 6		
			0.XXX	±0.05										
		angular	0°	±2°										

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PRODUCT NUMBER	NUMBER OF POSITIONS	DIM A	DIM B	DIM J	PEGS	HOLD DOWNS	DISCRETE CONNECTOR HEIGHT NOTE 9	PRACTICAL CONNECTOR HEIGHT NOTE 8
10090503-011112LF	10	6.70	2.00	7.24	YES	YES	3.25	2.00
10090503-021112LF	20	9.20	4.50	9.74				
10090503-031112LF	30	11.70	7.00	12.24				
10090503-041112LF	40	14.20	9.50	14.74				
10090503-051112LF	50	16.70	12.00	17.24				
10090503-061112LF	60	19.20	14.50	19.74				
10090503-071112LF	70	21.70	17.00	22.24				
10090503-012112LF	10	6.70	2.00	7.24				
10090503-022112LF	20	9.20	4.50	9.74				
10090503-032112LF	30	11.70	7.00	12.24				
10090503-042112LF	40	14.20	9.50	14.74				
10090503-052112LF	50	16.70	12.00	17.24				
10090503-062112LF	60	19.20	14.50	19.74				
10090503-072112LF	70	21.70	17.00	22.24				
10090503-013112LF	10	6.70	2.00	7.24				
10090503-023112LF	20	9.20	4.50	9.74				
10090503-033112LF	30	11.70	7.00	12.24				
10090503-043112LF	40	14.20	9.50	14.74				
10090503-052312LF	50	16.70	12.00	17.24				
10090503-063112LF	60	19.20	14.50	19.74				
10090503-073112LF	70	21.70	17.00	22.24				
10090503-014112LF	10	6.70	2.00	7.24				
10090503-024112LF	20	9.20	4.50	9.74				
10090503-034112LF	30	11.70	7.00	12.24				
10090503-044112LF	40	14.20	9.50	14.74				
10090503-054112LF	50	16.70	12.00	17.24				
10090503-064112LF	60	19.20	14.50	19.74				
10090503-074112LF	70	21.70	17.00	22.24				

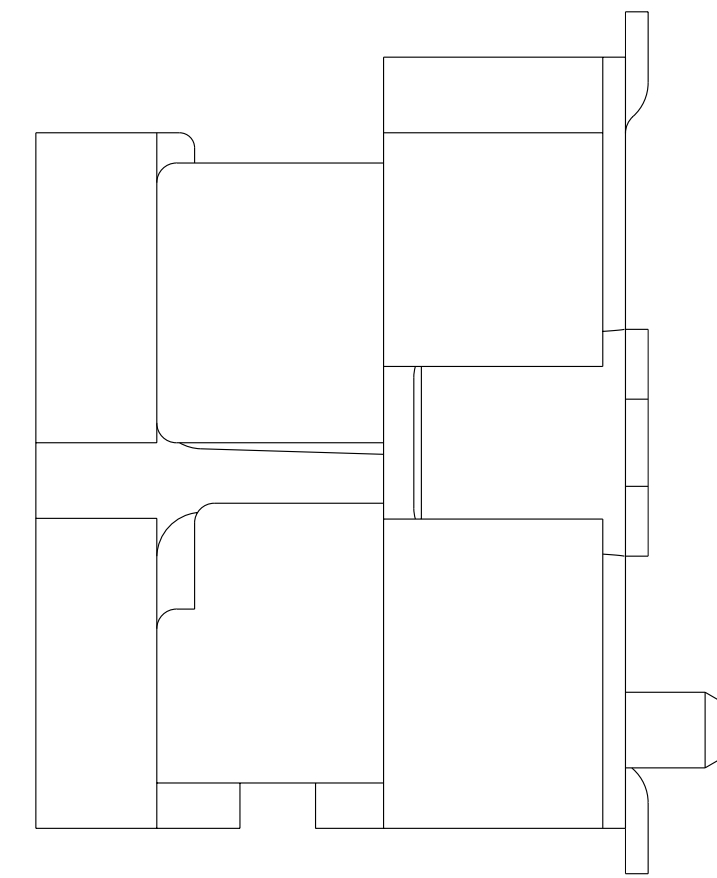
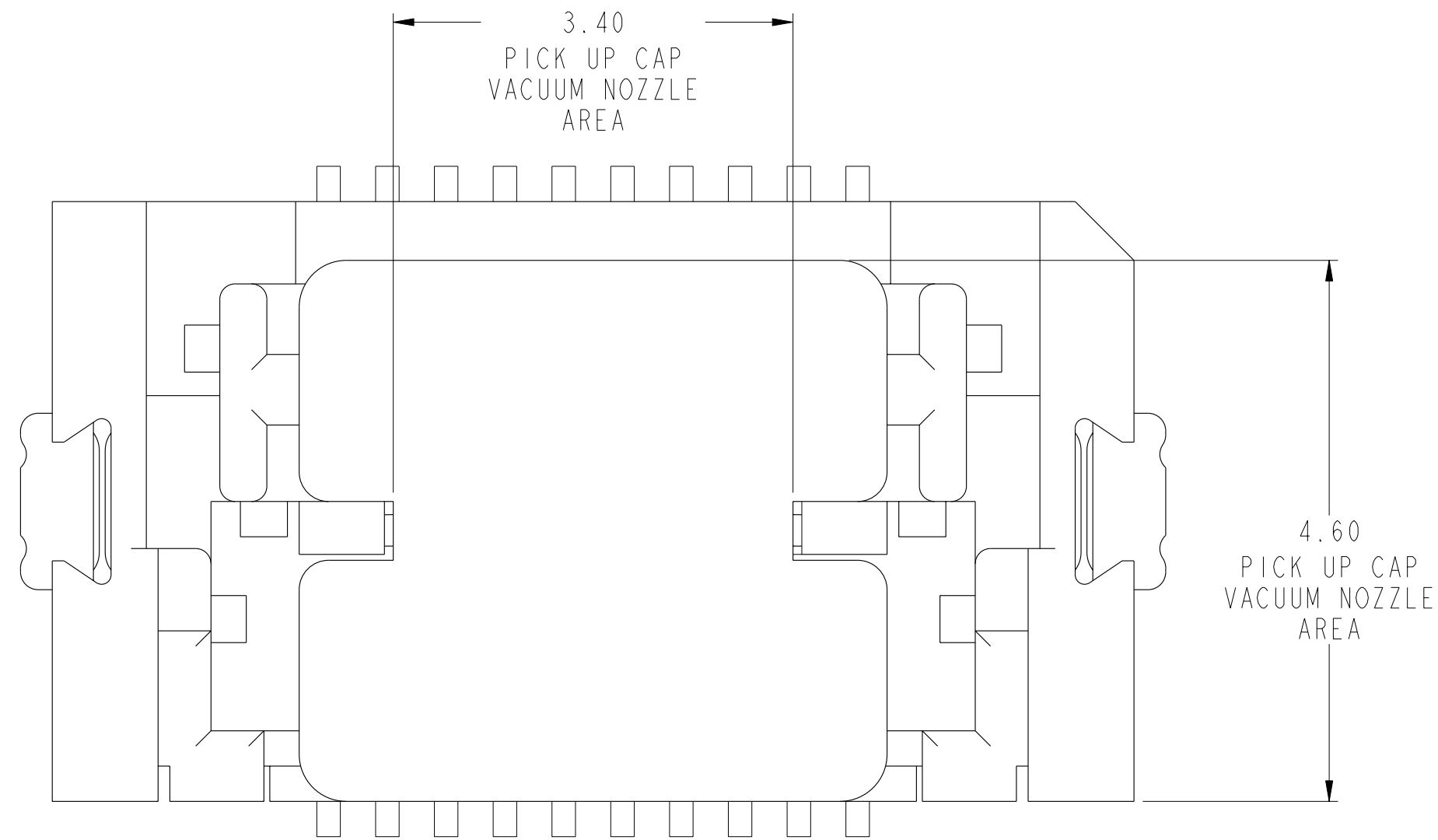
0.5 BTB HERMAPHRODITIC CONNECTOR ASSEMBLY PART NUMBER SCHEME
EXAMPLE: 10090503-XX X X X X LF



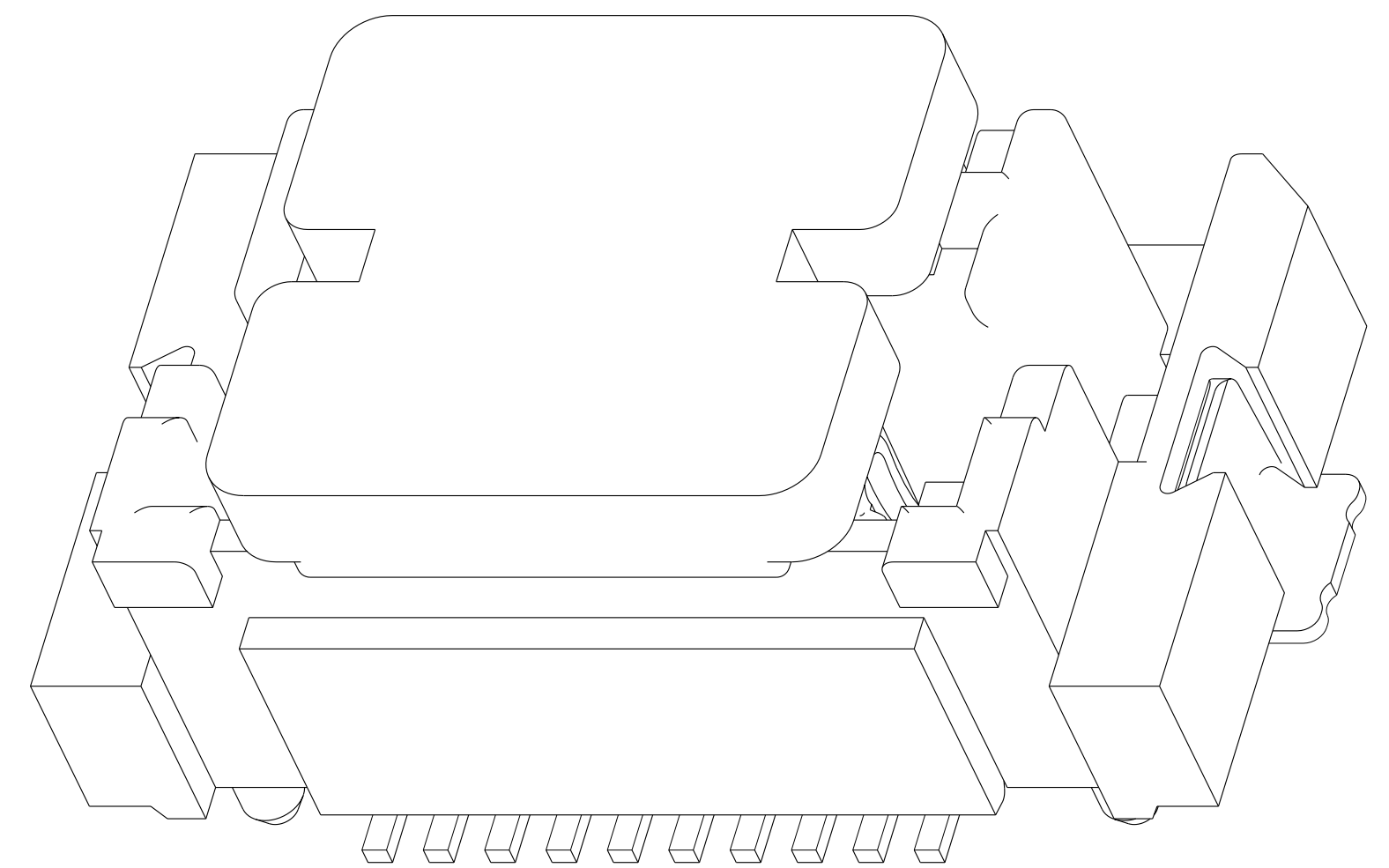
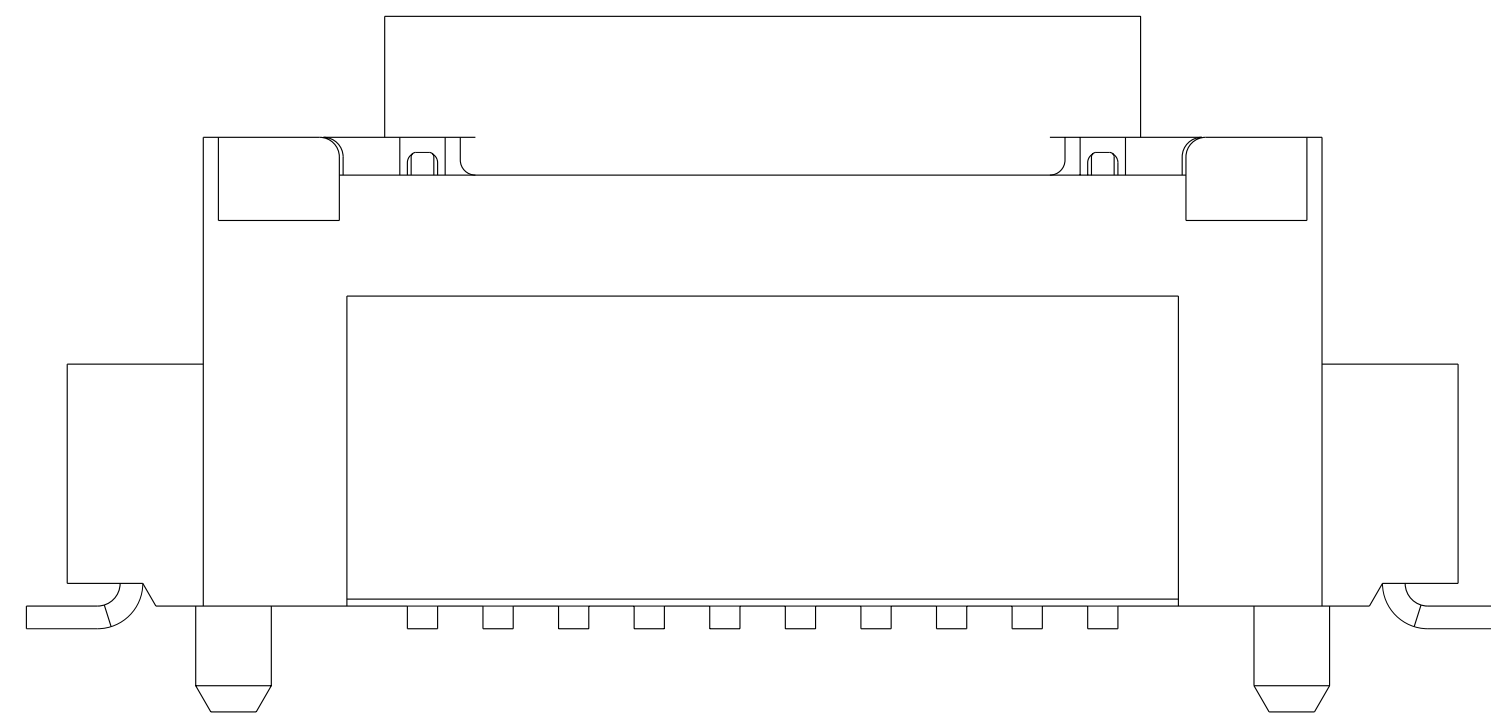
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spec ref	---	dr	STU STONER	2009-02-03	projection	mm	size	A2	scale	10:1													
tolerance std	---	eng	STU STONER	2009-02-03			ecn no	In Work	rel level	In Work													
---	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	STU STONER	2009-02-03																			
---		appr	S MINICH	2009-02-03																			
surface	<table border="1"> <tr><td>linear</td><td>0.X</td><td>±0.3</td></tr> <tr><td></td><td>0.XX</td><td>±0.10</td></tr> <tr><td></td><td>0.XXX</td><td>±0.05</td></tr> <tr><td>angular</td><td>0°</td><td>±2°</td></tr> </table>	linear	0.X	±0.3		0.XX	±0.10		0.XXX	±0.05	angular	0°	±2°		HERMAPHRODITIC CONNECTOR, LONG STYLE			<table border="1"> <tr><td>10-70 POS, 0.50 CTR, 4-7MM STACK HT</td></tr> </table>	10-70 POS, 0.50 CTR, 4-7MM STACK HT	<table border="1"> <tr><td>10090503</td></tr> </table>	10090503	rev	6
linear	0.X	±0.3																					
	0.XX	±0.10																					
	0.XXX	±0.05																					
angular	0°	±2°																					
10-70 POS, 0.50 CTR, 4-7MM STACK HT																							
10090503																							
---		www.fci.com	cat. no.	-	Product - Customer Drw	sheet 3 of 6																	



10090503-021112LF SHONW
WITH STANDARD PICK-UP CAP



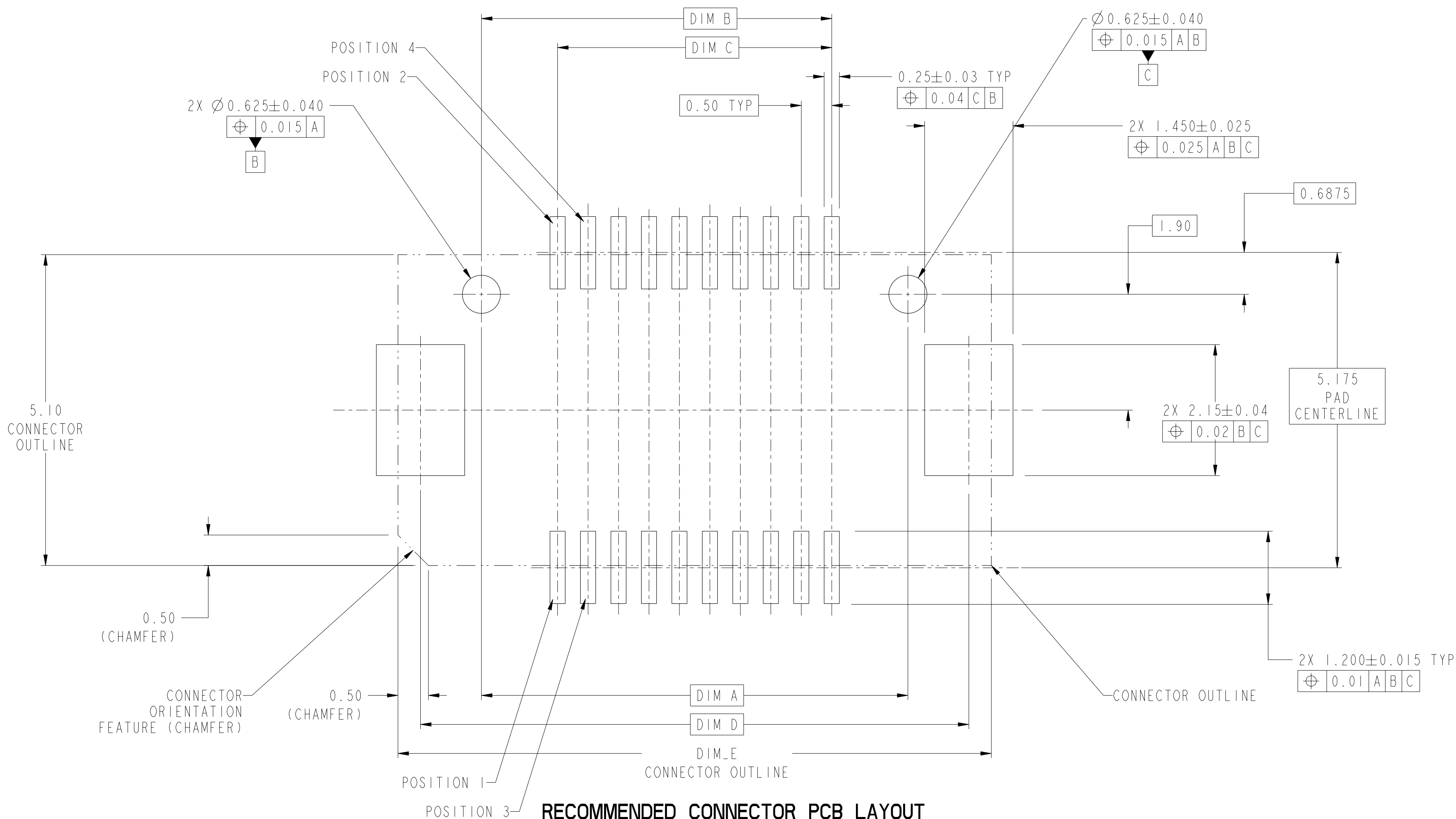
PRELIMINARY

spec ref	---	dr	STU STONER	2009-02-03	projection	mm	size	A2	scale	10:1									
tolerance std	---	eng	STU STONER	2009-02-03			ecn no	rel level	In Work	rev									
---	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	STU STONER	2009-02-03															
---		appr	S MINICH	2009-02-03	product family	MezzoStak													
surface	<table border="1"> <tr> <td rowspan="3"> </td> <td>linear</td> <td>0.X</td> <td>±0.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±0.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±0.05</td> </tr> <tr> <td></td> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table>		linear	0.X	±0.3		0.XX	±0.10		0.XXX	±0.05		angular	0°	±2°		title HERMAPHRODITIC CONNECTOR, LONG STYLE 10-70 POS, 0.50 CTR, 4-7MM STACK HT	dwg no 10090503	rev 6
	linear		0.X	±0.3															
			0.XX	±0.10															
		0.XXX	±0.05																
	angular	0°	±2°																
---		www.fci.com	catalog no	-	Product - Customer Drw	sheet 4 of 6													



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PRODUCT NUMBER	NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E
10090503-01X112LF	10	4.50	3.25	2.00	6.50	7.24
10090503-02X112LF	20	7.00	5.75	4.50	9.00	9.74
10090503-03X112LF	30	9.50	8.25	7.00	11.50	12.24
10090503-04X112LF	40	12.00	10.75	9.50	14.00	14.74
10090503-05X112LF	50	14.50	13.25	12.00	16.50	17.24
10090503-06X112LF	60	17.00	15.75	14.50	19.00	19.74
10090503-07X112LF	70	19.50	18.25	17.00	21.50	22.24



**RECOMMENDED CONNECTOR PCB LAYOUT
FOR 10090503-0XX112LF**
SEE TABLE FOR PCB LAYOUT DIMENSIONS
SEE NOTE 11 FOR STENCIL CREATION GUIDELINES

PRELIMINARY

spec ref	---	dr	STU STONER	2009-02-03	projection	mm	size	A2	scale	10:1
tolerance std	---	eng	STU STONER	2009-02-03		mm	ecn no	rel level	In Work	rev
---	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	STU STONER	2009-02-03						
---		appr	S MINICH	2009-02-03						
surface	✓	linear	0.X	±0.3		HERMAPHRODITIC CONNECTOR, LONG STYLE 10-70 POS, 0.50 CTR, 4-7MM STACK HT	dwg no 10090503	rel level In Work	sheet 5 of 6	rev 6
---	angular	0°	±2°							
---		www.fci.com	catalog no	-						



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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
 HOLD DOWNS: BRASS PLATED WITH 2.5µm Sn OVER 1.27µm UNDERPLATE.

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 REGULATION 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.

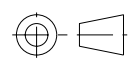

⑧ - PRACTICAL CONNECTOR HEIGHT AS SPECIFIED IN THE TABLE IS NOT THE DIMENSIONAL HEIGHT OF THE CONNECTOR BUT THE HEIGHT AS IT PERTAINS TO TOTAL STACK HEIGHT. AN EXAMPLE IS A CONNECTOR WITH A 2.5MM PRACTICAL CONNECTOR HEIGHT AND WHEN MATED TO ITSELF WILL RESULT IN A BOARD TO BOARD STACK HEIGHT OF 5MM.

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 COPLANRITY PLANE. THIS MEASUREMENT SHALL NOT EXCEED A WINDOW OF 0.00 TO 0.10MM.

⑪ - REFER TO IPC 7525-A FOR STENCIL CREATION

PRELIMINARY

spec ref	---	dr	STU STONER	2009-02-03	projection	mm	size	A2	scale	10:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	STU STONER	2009-02-03		mm	A2	10:1	ecn no	
---		chr	STU STONER	2009-02-03					rel level	
---		appr	S MINICH	2009-02-03					In Work	
---		product family	MezzoStak							
surface	✓	linear	0.X	±0.3		HERMAPHRODITIC CONNECTOR, LONG STYLE	10090503	6	rev	
---			0.XX	±0.10					10-70 POS, 0.50 CTR, 4-7MM STACK HT	
---			0.XXX	±0.05					www.fci.com catalog no	
---		angular	0°	±2°	Product - Customer Drw		sheet 6 of 6			