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F

**PRELIMINARY**

spec ref	-	dr	G. HULL	2010-04-16	projection	mm	size	A2	scale	3:1
tolerance std	ASME Y14.5	eng	G. HULL	2010-04-16		mm	ecn no			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	G. HULL	2010-04-20			product family	CROSSBOW	rel level	In Work
surface	linear	0.X	±0.10		<b>FCI</b> title R/A RECEPTACLE MODULE CROSSBOW, 6X6 cat. no. SEE PART NUMBER TABLE Product - Customer Drw	no 10089514 sheet 1 of 3	rev 2			
		0.XX	±0.05							
		0.XXX	±0.020							
ASME Y14.5	angular	0°	±2°	www.fci.com						

A

B

C

D

E

F

A

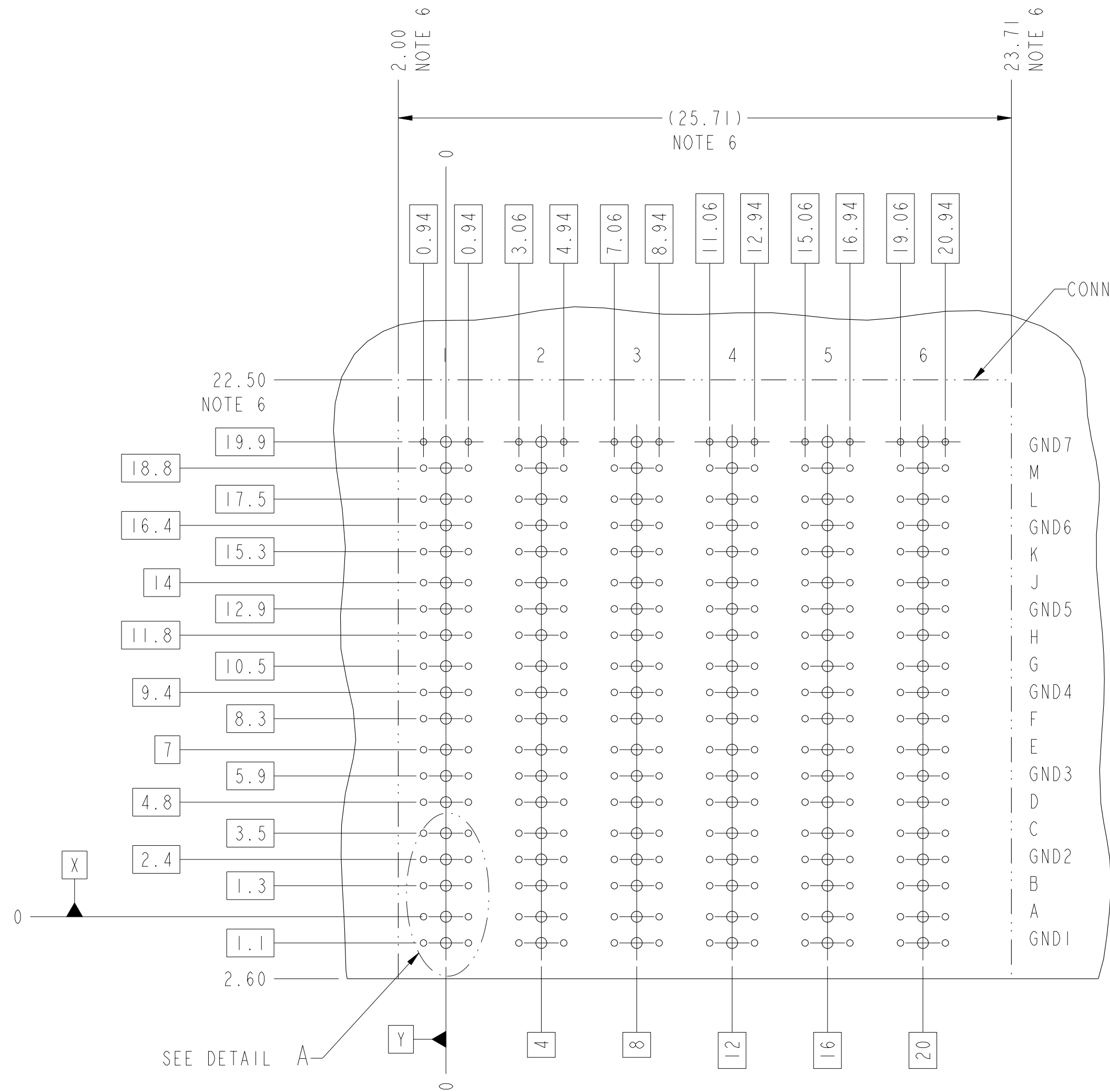
B

C

D

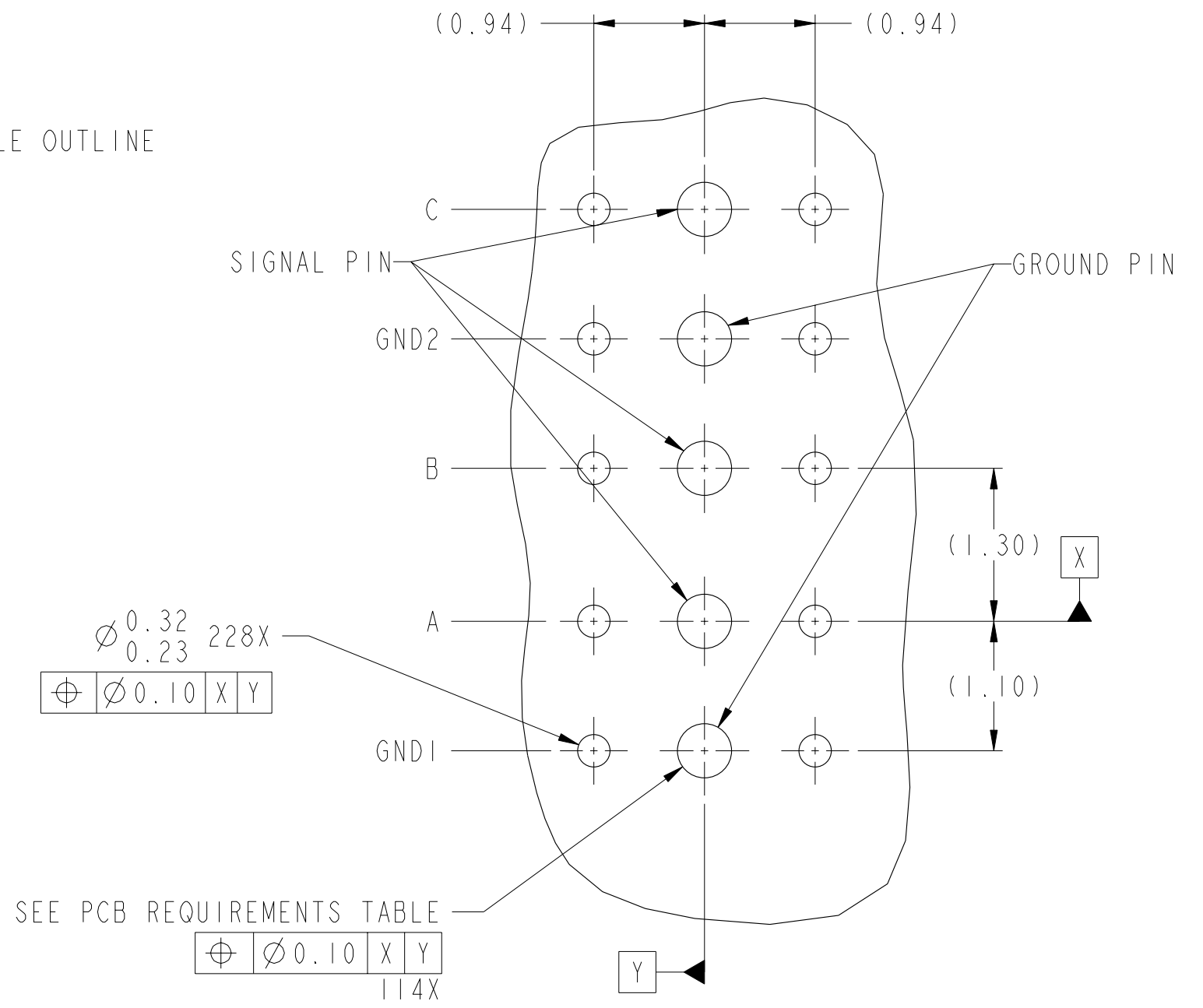
E

F



DAUGHTERCARD HOLE PATTERN  
CONNECTOR SIDE  
SCALE 6:1  
SEE NOTE 8

CONNECTOR MODULE OUTLINE



DETAIL A  
SCALE 20:1  
HIGH-SPEED DIFFERENTIAL PINOUT  
SEE NOTE 9



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spec ref -				dr G. HULL	2010-04-16	projection	mm	size A2	scale 4:1
tolerance std ASME Y14.5				eng G. HULL	2010-04-16		mm	ecn no	
TOLERANCES UNLESS OTHERWISE SPECIFIED				chr G. HULL	2010-04-20			rel level In Work	
surface ✓				appr -	-	product family CROSSBOW	rel level In Work		rev 2
ASME Y14.5				linear	0.X ±0.10			title R/A RECEPTACLE MODULE CROSSBOW, 6X6 cat. no. SEE PART NUMBER TABLE Product - Customer Drw sheet 2 of 3	
				angular	0° ±2°	www.fci.com		10089514 2	

PRELIMINARY

PART NUMBER	COMPLIANT PIN DRILL DIAMETER	DIM "A" (TAIL LENGTH)	PRESS-FIT TAIL PLATING
10089514-1001	0.46 (.018")	2.05	TIN-LEAD ALLOY OVER NICKEL
10089514-1001LF			TIN OVER NICKEL (LEAD-FREE)
10089514-1002	0.40 (.016")	1.56	TIN-LEAD ALLOY OVER NICKEL
10089514-1002LF			TIN OVER NICKEL (LEAD-FREE)

PCB REQUIREMENTS				
DASH NO	DRILL	PTH	PAD SEE NOTE 7	MIN PCB THICKNESS
-1001 & -1001LF	Ø0.57 (.0225")	Ø0.46 (0.018")	Ø0.88 (0.035")	1.60
-1002 & -1002LF	Ø0.50 (.0197")	Ø0.40 (0.0157")	Ø0.81 (0.032")	1.00

NOTES:

- CONNECTOR MATERIALS:  
HOUSING: HIGH-TEMPERATURE THERMOPLASTIC, GRAY, UL 94V-0  
WAFERS: HIGH-TEMPERATURE THERMOPLASTIC, GRAY, UL 94V-0  
CONTACTS: HIGH-PERFORMANCE COPPER ALLOY  
ORGANIZER: STAINLESS STEEL
- CONTACT PLATING:  
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-599, INCLUDING THE TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST SEQUENCE.  
  
PRESS-FIT TAILS: SEE TABLE
- PRODUCT SPECIFICATION: GS-12-599
- APPLICATION SPECIFICATION: GS-20-134
- PRODUCT MARKING, (PART NUMBER & LOT CODE), APPLIED TO THIS SURFACE.
- CONNECTOR OUTLINE MAY BE SCREEN PRINTED ONTO CUSTOMER PCB TO BE USED AS A GUIDE FOR MANUAL CONNECTOR PLACEMENT.
- STATED PAD SIZE MAY REQUIRE FILLETING. REFER TO FCI APPLICATION SPECIFICATION FOR ROUTING GUIDELINES.
- SEE PCB REQUIREMENTS TABLE AND FCI APPLICATION SPECIFICATION GS-20-121 FOR PCB HOLE SPECIFICATIONS AND ROUTING GUIDELINES.
- LEAD-FREE PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN FCI SPECIFICATION GS-22-008.
- THE PLASTIC MATERIALS IN THIS PRODUCT WILL WITHSTAND EXPOSURE TO 260° PEAK TEMP FOR 40 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
- PACKAGING MEETS FCI SPECIFICATION GS-14-920 FOR LEAD-FREE LABELING.
- THE SPECIFIED KEEP-OUT AREA IS REQUIRED FOR CONNECTOR REPAIRABILITY.



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tolerance std	ASME Y14.5	eng	G. HULL	2010-04-16		mm	ecn no																
	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	G. HULL	2010-04-20			rel level	In Work															
surface	<table border="1"> <tr> <td rowspan="3"> </td> <td>linear</td> <td>0.X</td> <td>±0.10</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±0.05</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±0.020</td> </tr> <tr> <td>ASME Y14.5</td> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table>		linear	0.X	±0.10		0.XX	±0.05		0.XXX	±0.020	ASME Y14.5	angular	0°	±2°		title	R/A RECEPTACLE MODULE CROSSBOW, 6X6		dwg no	10089514	rev	2
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		www.fci.com	cat. no.	SEE PART NUMBER TABLE	Product - Customer	Drw	sheet 3 of 3																