

10104997 - X 0 C - X 0 X L F

6-COLUMN DIFFERENTIAL SIGNAL

LEAD-FREE DESIGNATION ONLY WITH APPLICABLE PLATING CODES

LETTER	PLATING (SEE NOTE 2)	
	APPLICATION	TYPE (REFERENCE)
B	TELCORDIA CO	0.76um GOLD or GXT
C	TELCORDIA UE	1.27um GOLD
D	TELCORDIA CO	0.76um GOLD or GXT, LEAD-FREE
E	TELCORDIA UE	1.27um GOLD, LEAD-FREE

MODULE DESCRIPTION	LETTER DESIGNATION REPRESENTED IN DASH NUMBER									BASE MODULE
	J	A	B	C	D	E	F	G	H	
LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 3)										
RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 4)										
OPEN MODULE (TWO WALL) (SEE SHEET 2)	0 (ZERO)									
LEFT WALL MODULE (SEE SHEET 5)	L									
RIGHT WALL MODULE (SEE SHEET 6)	M									
FOUR WALL MODULE (SEE SHEET 7)	1									

NUMBER	CONTACT MATING WIPE LENGTH		COMPLIANT PIN DRILL SIZE
	SIGNAL	WIDE GROUND	
1	2	4	Ø 0.55 [0.0217"]
2	3	4	Ø 0.55 [0.0217"]
3	2	4	Ø 0.45 [0.0177"]
4	3	4	Ø 0.45 [0.0177"]
5	2	3	Ø 0.55 [0.0217"]
6	3	3	Ø 0.55 [0.0217"]
7	2	3	Ø 0.45 [0.0177"]
8	3	3	Ø 0.45 [0.0177"]

TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)

	GROUNDED	UNGROUNDED
FINISHED	Ø 2.35-2.55	Ø 2.35-2.55
PAD	Ø 5.50	N/A
PLATED	YES	NO
DRILL (mm/in)	2.58 / .1015	2.44 / .096

TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

SCREW P/N	DESCRIPTION	BOARD THICKNESS
10104997-002LF	#2-56 X .375" PHILLIPS PANHEAD W/SO CONICAL WASHER	1.60 - 5.00
10104997-003LF	#2-56 X .500" PHILLIPS PANHEAD W/SO CONICAL WASHER	5.00 - 10.00

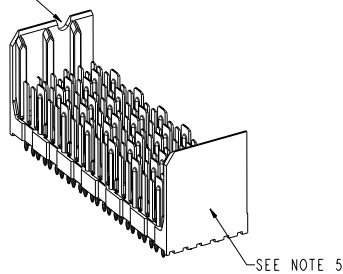
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spec ref	SEE NOTES	dr	S. MANI	2009-09-01	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	ecn no			
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		XCode	rel level	Released	
surface	linear	0.1	±0.2		FCI	MODULE ASSEMBLY	10104997	rev	A	
ASME Y14.5	angular	0.25	±0.10			VERTICAL HEADER, 6-COLUMN, 6-PAIR		sheet 1 of 6		
		0.25	±0.050			SEE PIN TREE	Product	Customer Draw		

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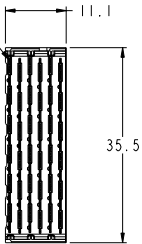
OPEN (2-WALL) MODULE

SEE NOTE 8



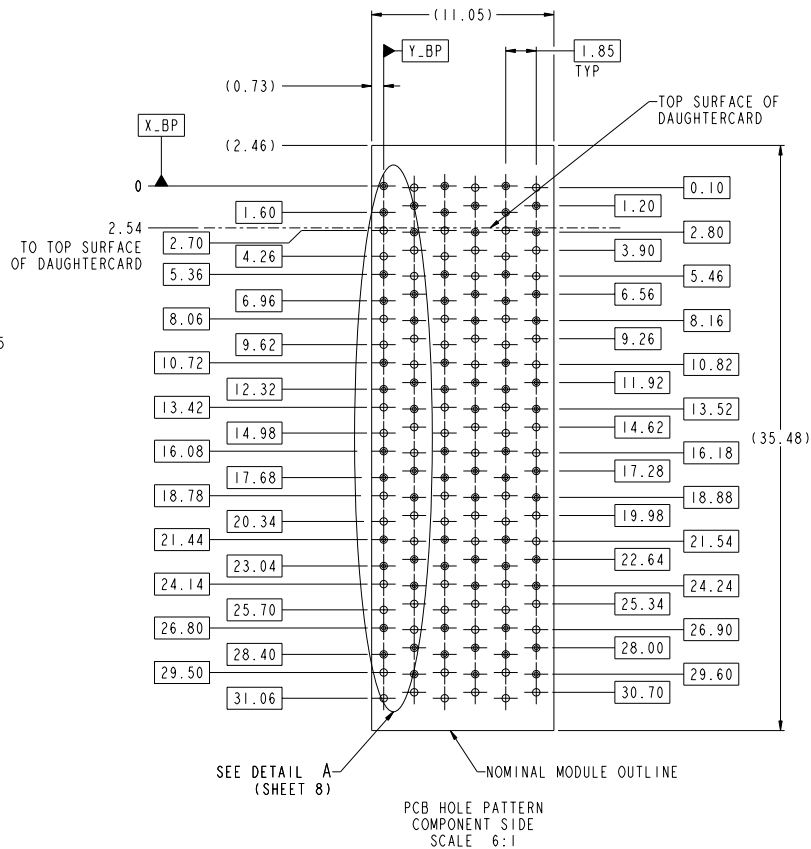
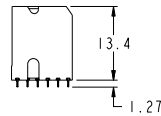
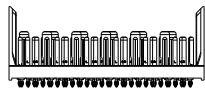
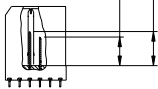
SEE NOTE 5

POSN A1



- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



SEE DETAIL A (SHEET 8)

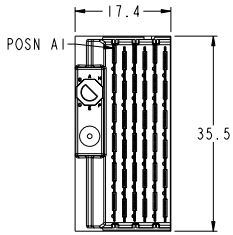
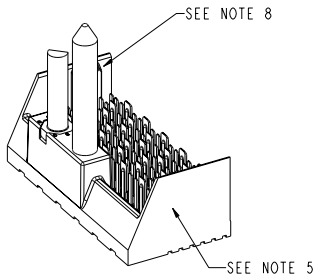
NOMINAL MODULE OUTLINE
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES	dr	S. MANI	2009-09-01	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecn no		
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		XCode	rel level	Released	
surface	linear	0.1	±0.2							
		0.2X	±0.10							
ASME Y14.5	angular	0.2XX	±0.050							
		0°	±°							

FCJ MODULE ASSEMBLY
VERTICAL HEADER, 6 COLUMN, 6-PAIR
SEE P/N TREE Product: Customer Draw
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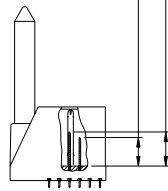
LEFT POLARIZING/GUIDE MODULE



6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

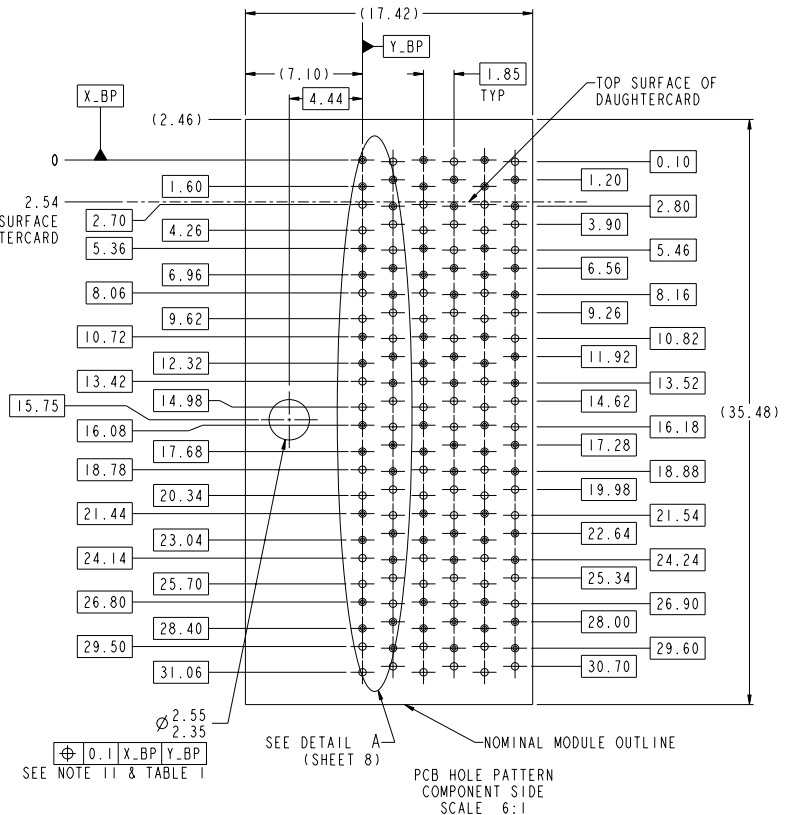
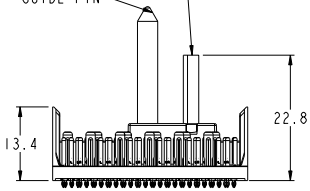
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



OPTIONAL KEYING PIN
(SEE P/N TREE)

GUIDE PIN



SEE NOTE 11 & TABLE 1
 ± 0.1 X_BP | Y_BP

SEE DETAIL A
(SHEET 8)

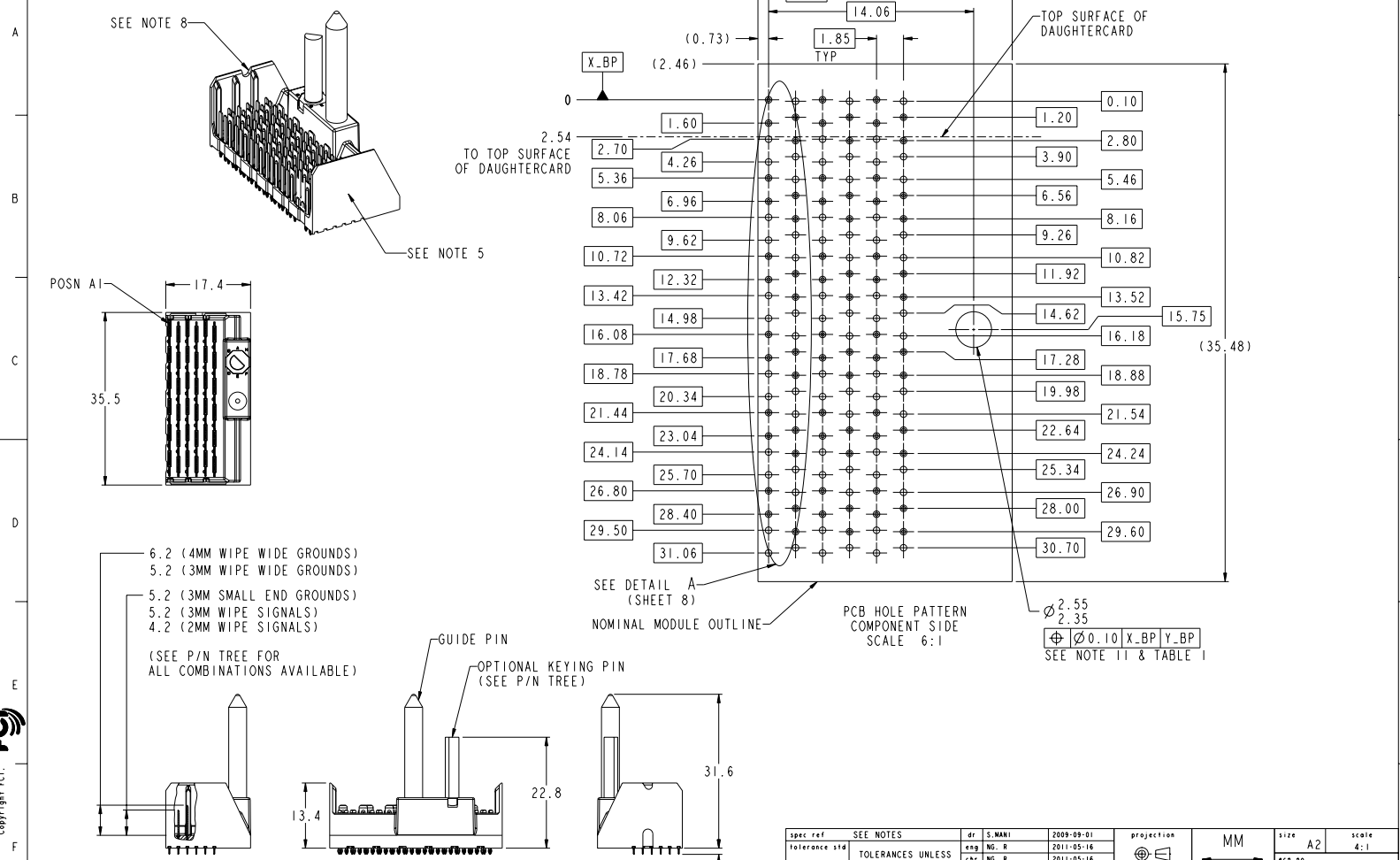
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	ecm no		rel level	Released
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		XCode			
surface	linear	0.1	±0.2							
		0.2X	±0.10							
ASME Y14.5	angular	0°	±0.050							
			±°							

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MODULE ASSEMBLY
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RIGHT POLARIZING/GUIDE MODULE



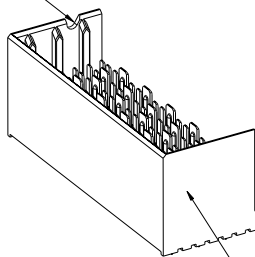
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ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		XCode	rel level		
surface	linear	0.1	±0.2							
		0.2X	±0.10							
ASME Y14.5	angular	0.2XX	±0.050							
		0°	±°							

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MODULE ASSEMBLY
 VERTICAL HEADER, 6 COLUMN, 6-PAIR
 SEE P/N TREE
 Product: Customer Draw
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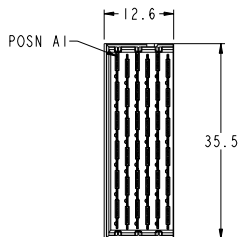
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LEFT WALL MODULE

SEE NOTE 8

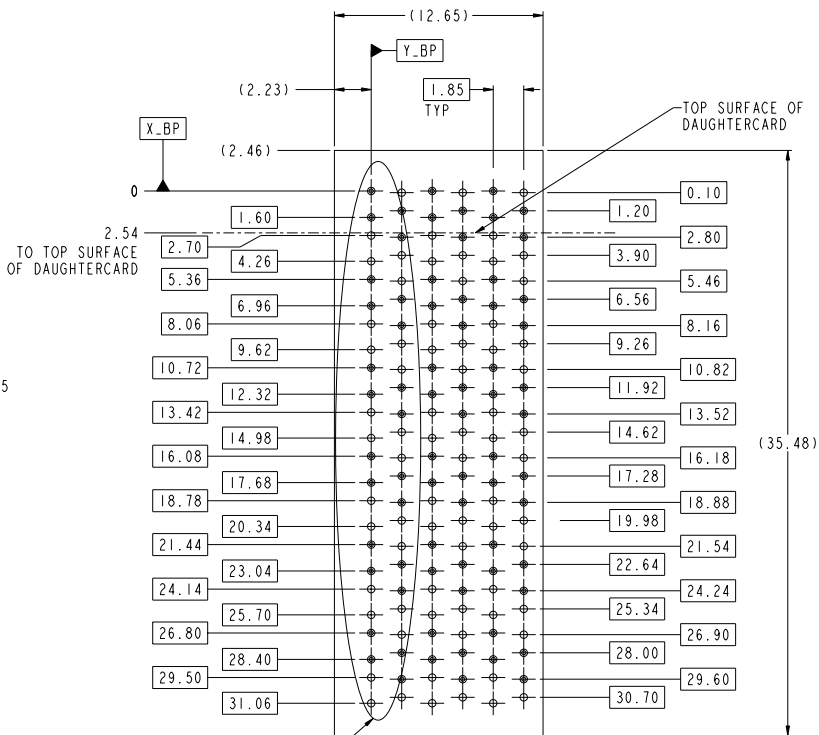
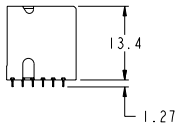
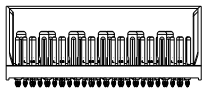
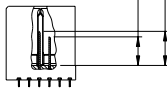


SEE NOTE 5



- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



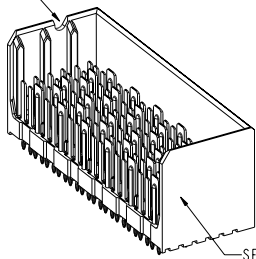
SEE DETAIL A (SHEET 8)
NOMINAL MODULE OUTLINE
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES	dr	S.MANI	2009-09-01	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecn no		Released
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		XCode	rel level		
surface	linear	0.1	±0.2							
		0.2X	±0.10							
		0.3XX	±0.050							
ASME Y14.5	angular	0°	±°							

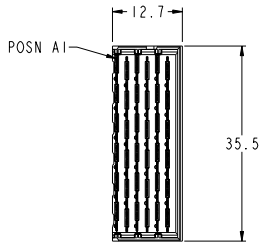
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RIGHT WALL MODULE

SEE NOTE 8



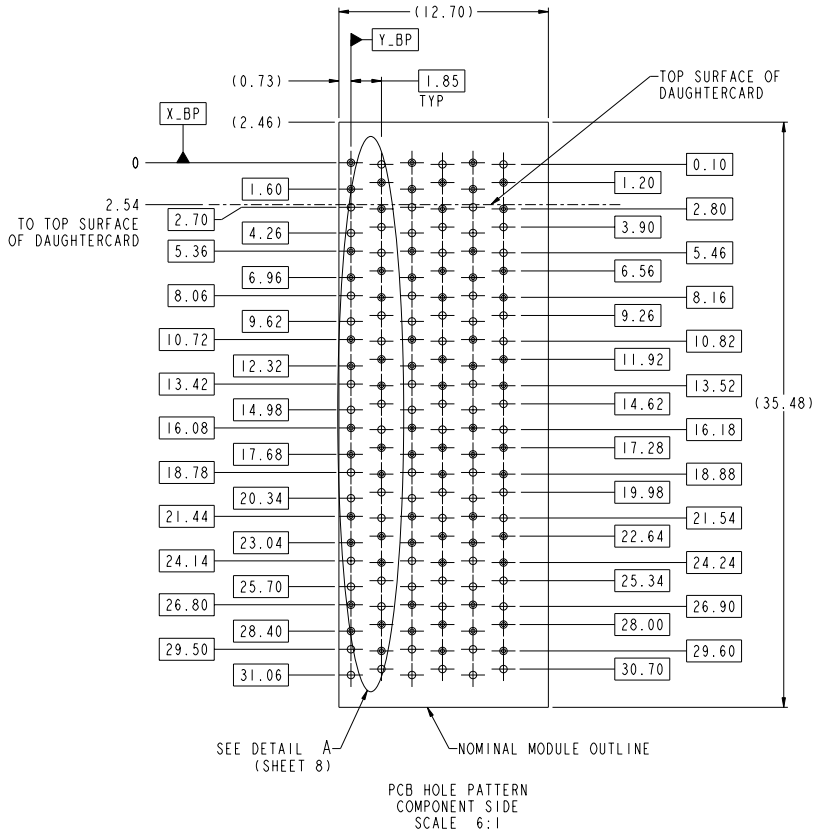
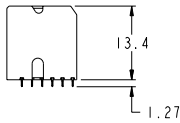
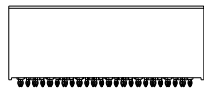
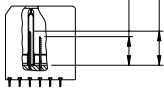
SEE NOTE 5



SCALE 2:1

- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



SEE DETAIL A (SHEET 8)
NOMINAL MODULE OUTLINE
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

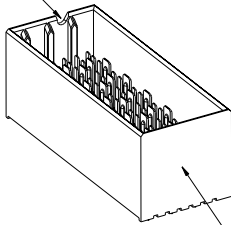
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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecn no		Released		
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		XCode	rel level				
surface	linear	0.1	±0.2		FCJ MODULE ASSEMBLY VERTICAL HEADER, 6 COLUMN, 6-PAIR SEE P/N TREE					10104997	rev	A
ASME Y14.5	angular	0.1	±0.050							eng		

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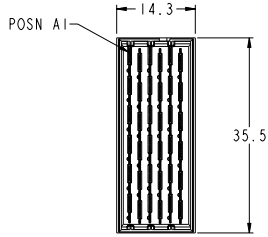
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FOUR WALL MODULE

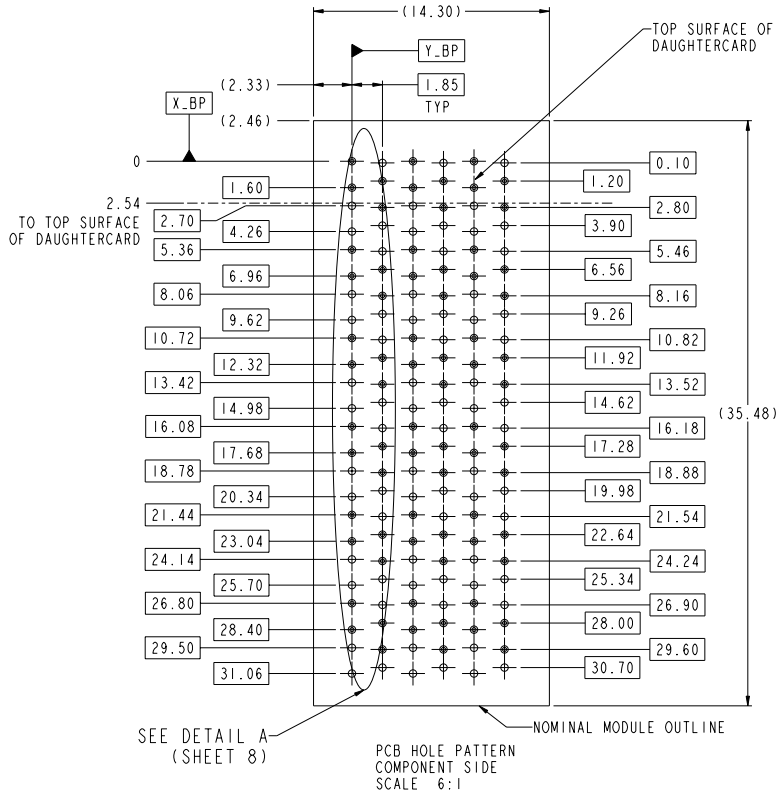
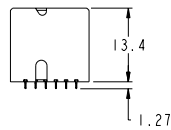
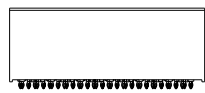
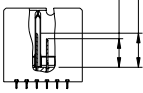
SEE NOTE 8



SEE NOTE 5



- 6.2 (4MM WIPE WIDE GROUNDS)
 - 5.2 (3MM WIPE WIDE GROUNDS)
 - 5.2 (3MM SMALL END GROUNDS)
 - 5.2 (3MM WIPE SIGNALS)
 - 4.2 (2MM WIPE SIGNALS)
- (SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



SEE DETAIL A (SHEET 8)

PCB HOLE PATTERN COMPONENT SIDE SCALE 6:1

NOMINAL MODULE OUTLINE

TOP SURFACE OF DAUGHTERCARD

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spec ref	SEE NOTES	dr	S.MANI	2009-09-01	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecn no		Released
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		XCode	rel level		
surface	linear	0.1	±0.2		FCJ	MODULE ASSEMBLY	10104997	rev	A	
		0.2X	±0.10			VERTICAL HEADER, 6 COLUMN, 6-PAIR				
ASME Y14.5	angular	0.2XX	±0.050			SEE P/N TREE	Product	Customer Draw	sheet 7 of 6	

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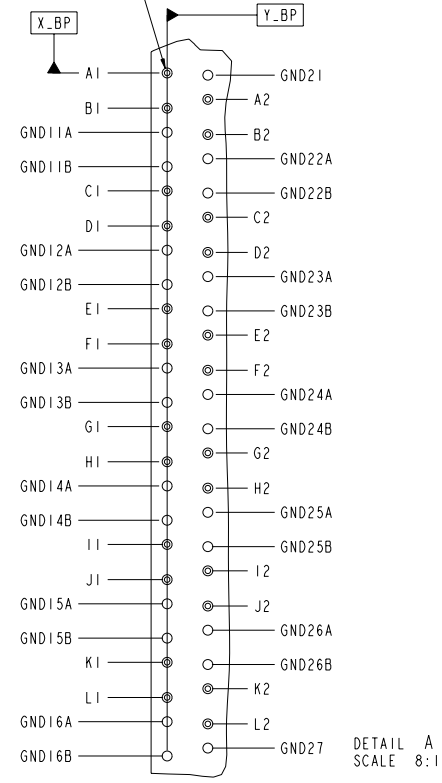
NOTES:

1. CONNECTOR MATERIALS
SHROUD: HIGH-TEMP THERMOPLASTIC, UL94V-0
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
2. CONTACT PLATING:
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-588, INCLUDING TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST SEQUENCE.
PRESS-FIT TAILS: TIN OVER NICKEL, OR TIN-LEAD ALLOY OVER NICKEL. SEE P/N TREE.
3. PRODUCT SPECIFICATION: GS-12-588 (PRELIMINARY)
4. APPLICATION SPECIFICATION: GS-20-121 (PRELIMINARY)
5. PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
6. HOUSING MUST WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR-PHASE REFLOW OVEN.
7. PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.
8. NOTCH INDICATES "ROW A" SIDE OF CONNECTOR.
9. SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PN SELECTION, ETC.
10. SCREW IS OPTIONAL AND ENGAGES WITH BOTTOM OF GUIDE-PIN FROM BENEATH THE PCB FOR ADDITIONAL GUIDE-PIN SUPPORT.
11. OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.

REFER TABLE 3 FOR PTH, DRILL & PAD SIZES

TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL		
COMPLIANT PIN DRILL	PTH	PAD
Ø 0.55 [0.0217"]	Ø 0.45±0.05	Ø 0.85
Ø 0.45 [0.0177"]	Ø 0.36±0.05	Ø 0.75

⊕ Ø 0.10 | X_BP | Y_BP



DETAIL A
SCALE 8:1

spec ref	SEE NOTES	dr	S MANI	2009-09-01	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecn no		
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		XCode	rel level	Released	
surface	linear	0.1	±0.2	0.2X	±0.10	0.2XX	±0.050	10104997	rev	A
ASME Y14.5	angular	0°	±°							

FCI MODULE ASSEMBLY
VERTICAL HEADER, 6 COLUMN, 6-PAIR
SEE P/N TREE Product: Customer Draw sheet 8 of 8
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