

1 0 0 9 1 7 6 7 - X 0 C - X X X L F

6-COLUMN
DIFFERENTIAL
SIGNAL

LEAD-FREE DESIGNATION
ONLY WITH APPLICABLE
PLATING CODES

LETTER

PERFORMANCE-BASED PLATING (SEE NOTE 2)

TARGET APPLICATION

LEAD FREE (LF)

B

TELCORDIA CO

NO

C

TELCORDIA UE

NO

D

TELCORDIA CO

YES

E

TELCORDIA UE

YES

NUMBER

PIN STYLE, HEIGHT

0

STANDARD GUIDE PIN MACHINED, 31.6mm

4

STANDARD GUIDE PIN MACHINED, 25.7mm

MODULE
DESCRIPTION

LETTER DESIGNATION REPRESENTED IN DASH NUMBER

BASE
MODULE

LEFT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 3)

J

A

B

C

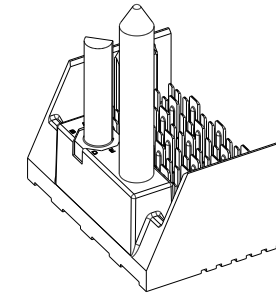
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

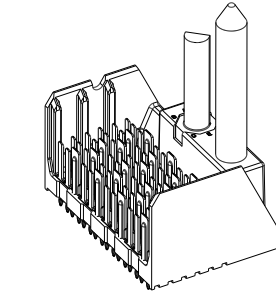
S

T

U

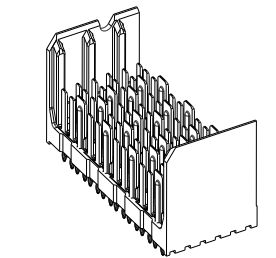
V

W



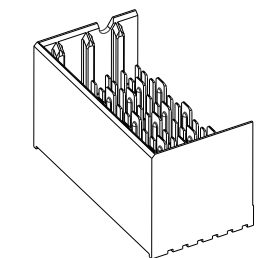
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



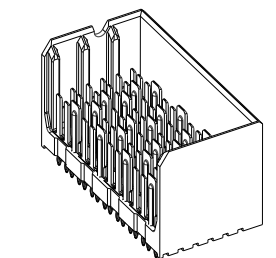
LEFT WALL
MODULE
(SEE SHEET 5)

L



RIGHT WALL
MODULE
(SEE SHEET 6)

M



FOUR WALL
MODULE
(SEE SHEET 7)

1

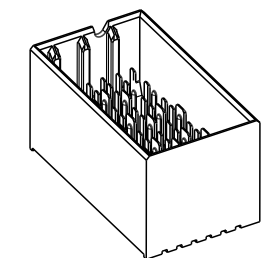


TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)

	GROUNDED	UNGROUNDED
FINISHED	Ø2.35-2.55	Ø2.35-2.55
PAD	Ø5.50	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
10091790-002LF	#2-56 X .375" PHILLIPS PANHEAD W/SQ CONICAL WASHER	1.60 - 5.00
10091790-003LF	#2-56 X .500" PHILLIPS PANHEAD W/SQ CONICAL WASHER	5.00 - 10.00

spec ref	SEE NOTES	dr	Jim Swain	2009/03/02	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/07			ecn no	ELX-S-006600-1		
ASME Y14.5		chr	-	-			rel level	Released		
		appr	Chen-Hong Tan	2011/10/07	product family	XCede				
surface	linear	0.X	±0.2		FCI	title	MODULE ASSEMBLY	dwg no	10091767	rev
ASME Y14.5	angular	0°	±°		www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 1 of 8	D

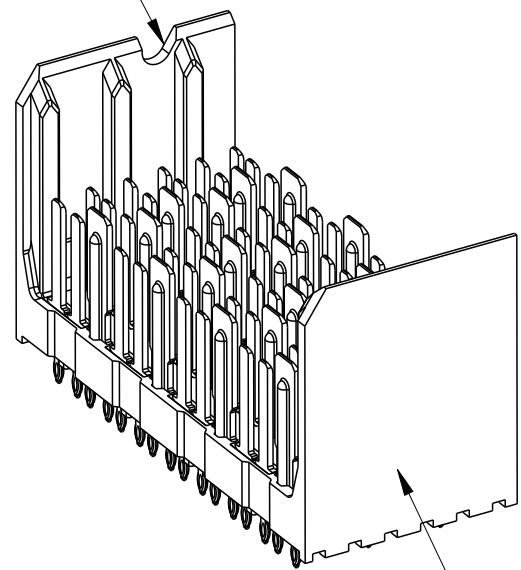
PDS: Rev :D

STATUS:Released

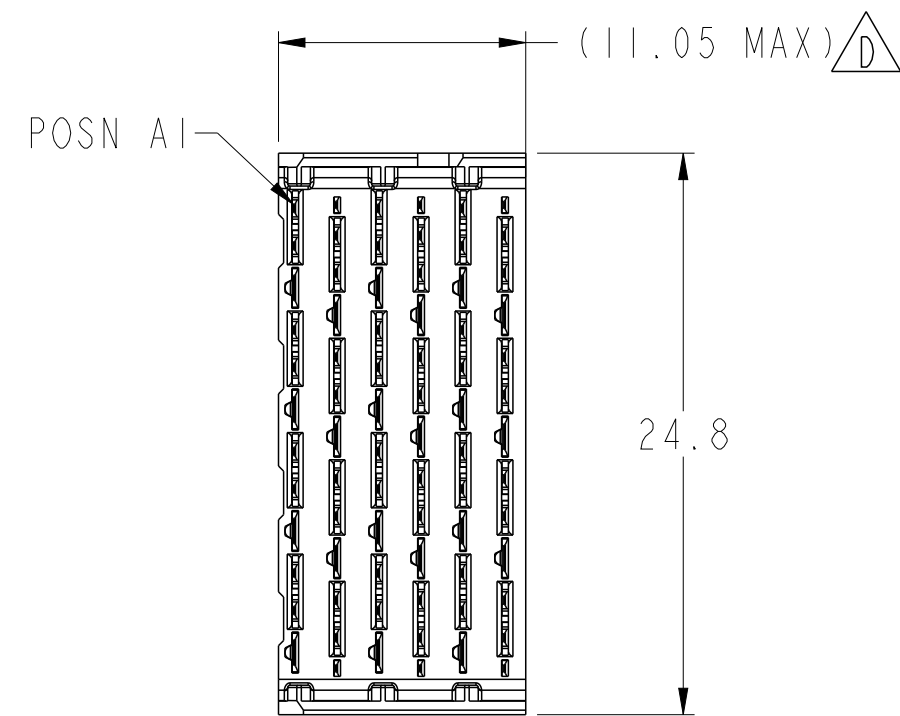
Printed: Oct 07, 2011

OPEN (2-WALL) MODULE

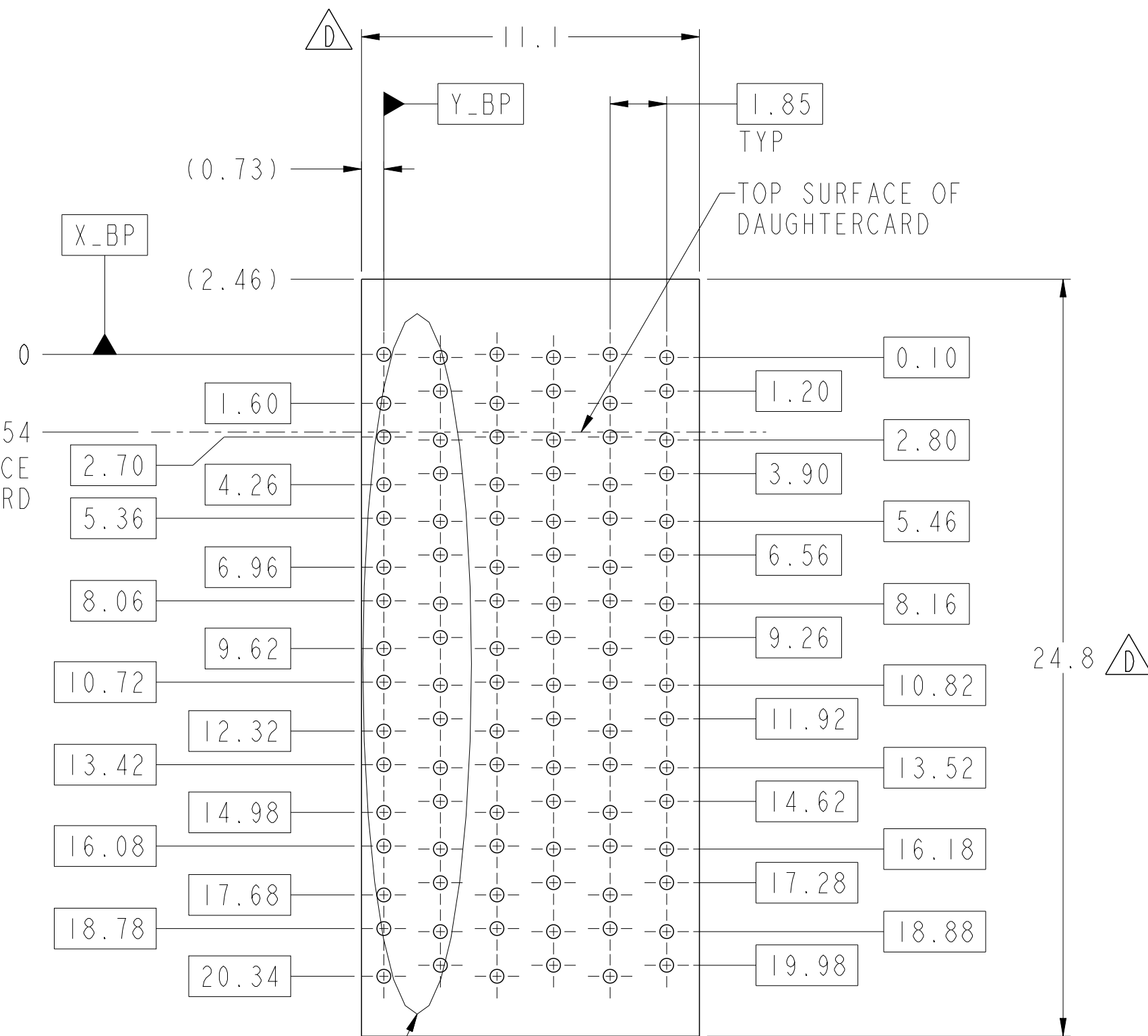
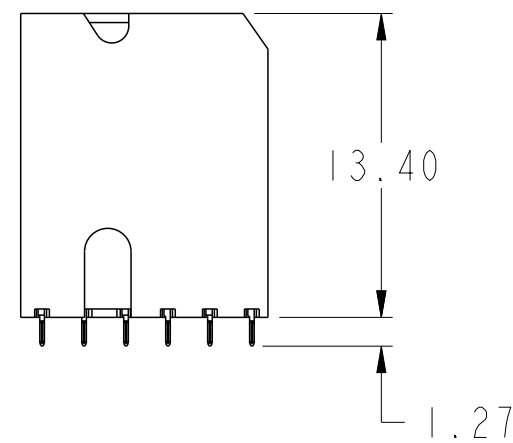
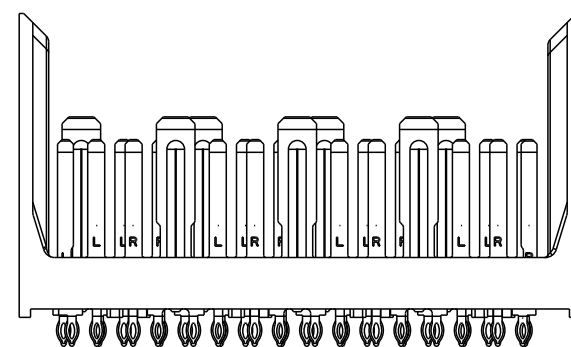
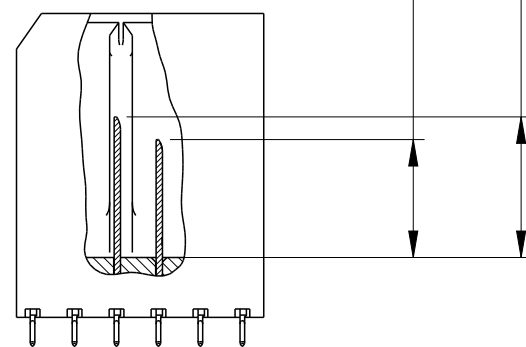
SEE NOTE 8



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



SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

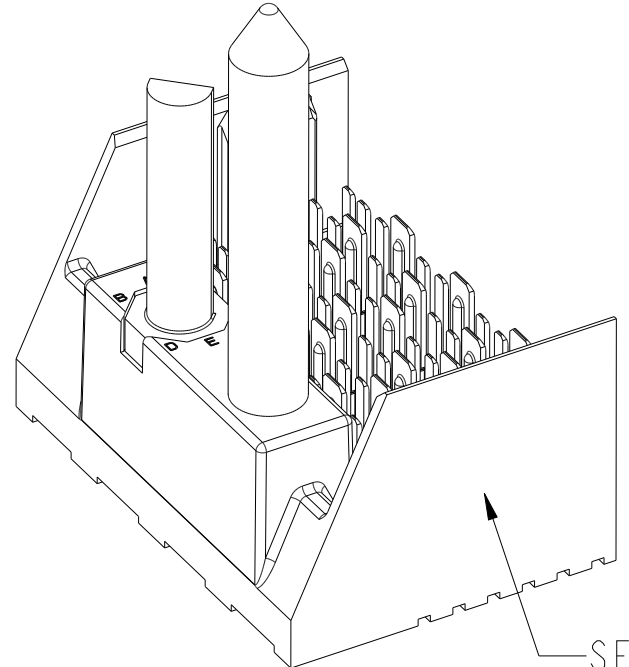
spec ref	SEE NOTES	dr	Jim Swain	2009/03/02	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Roger Ng	2011/10/07	chr	-	ecn no	ELX-S-006600-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2011/10/07	product family	XCede	rel level	Released	rev	D
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	angular	0° ±°	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 2 of 8		

PDS: Rev :D

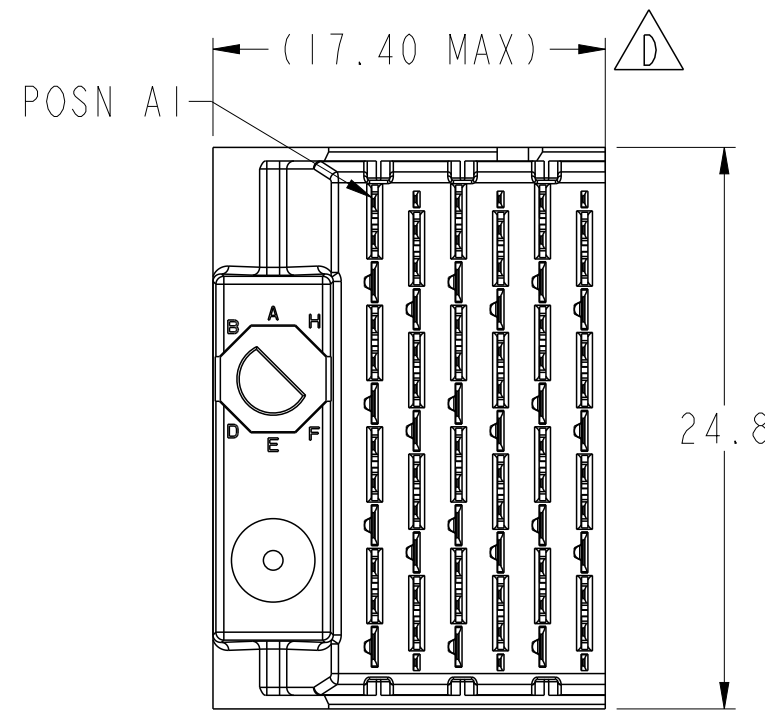
STATUS:Released

Printed: Oct 07, 2011

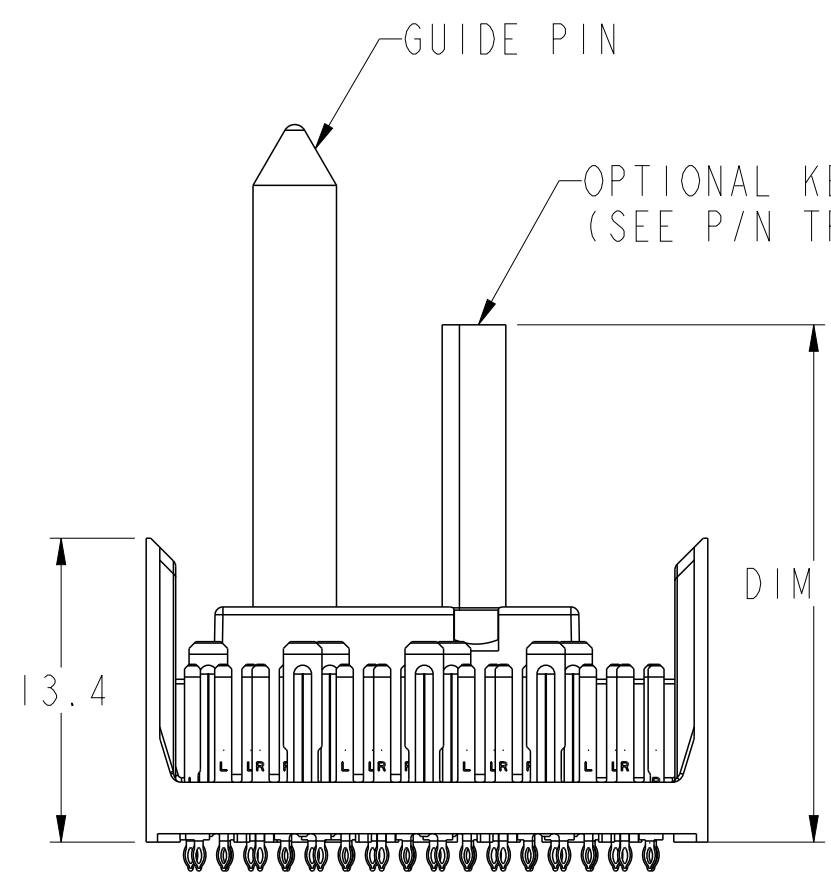
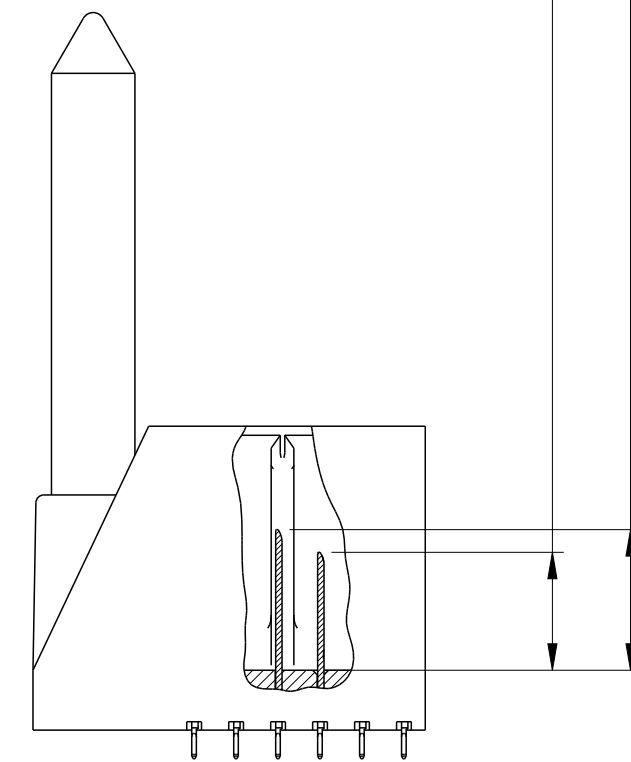
LEFT POLARIZING/GUIDE MODULE



SEE NOTE 5

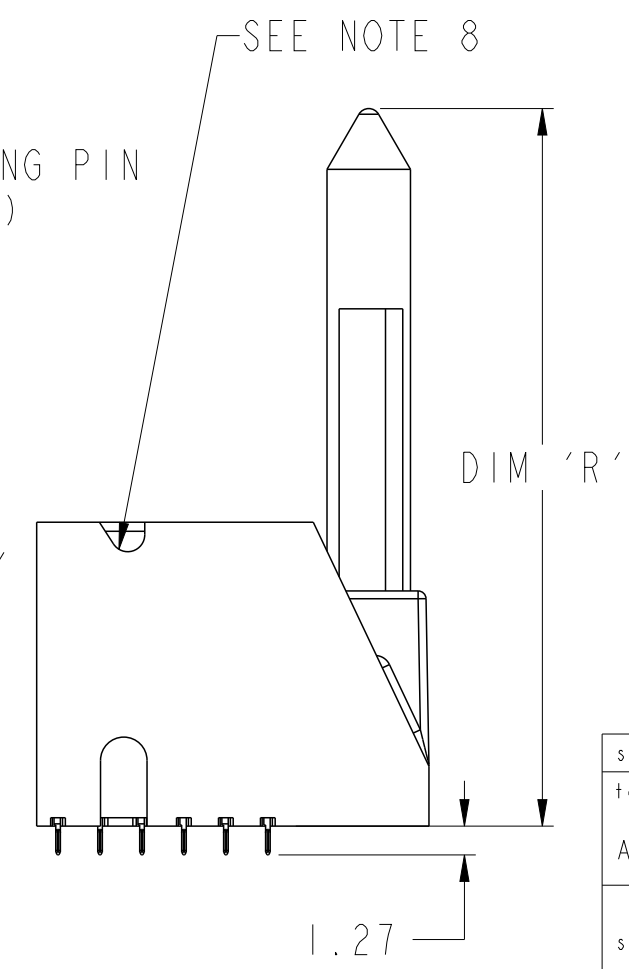


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE

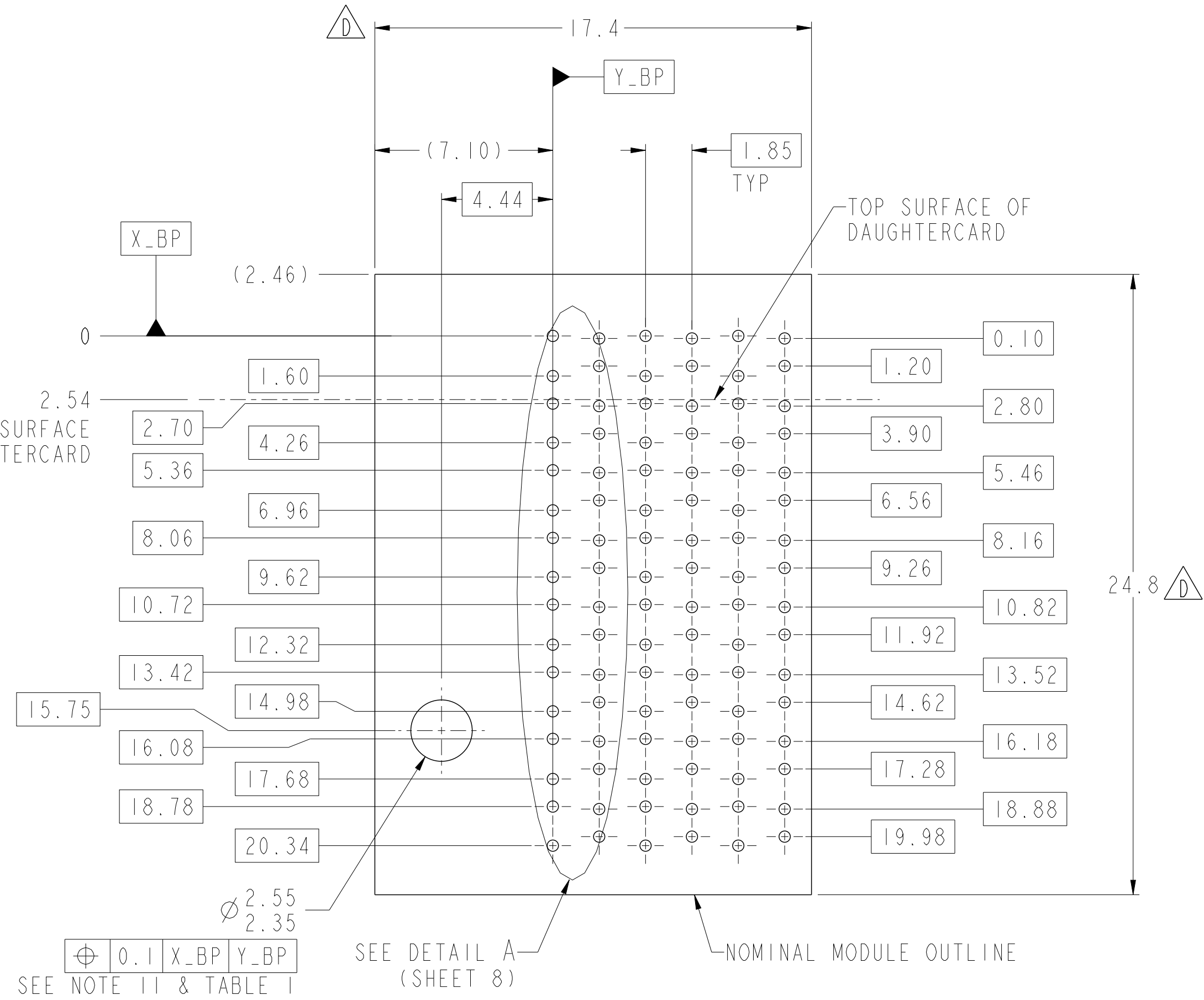


GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)



SEE NOTE 8

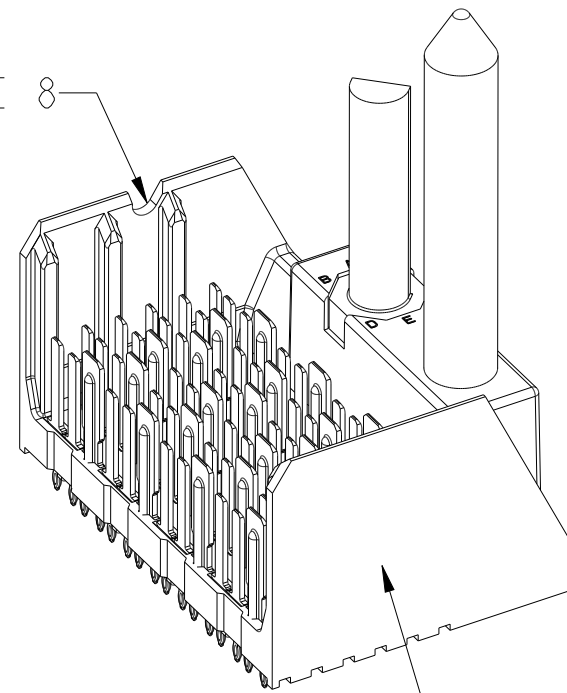


ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

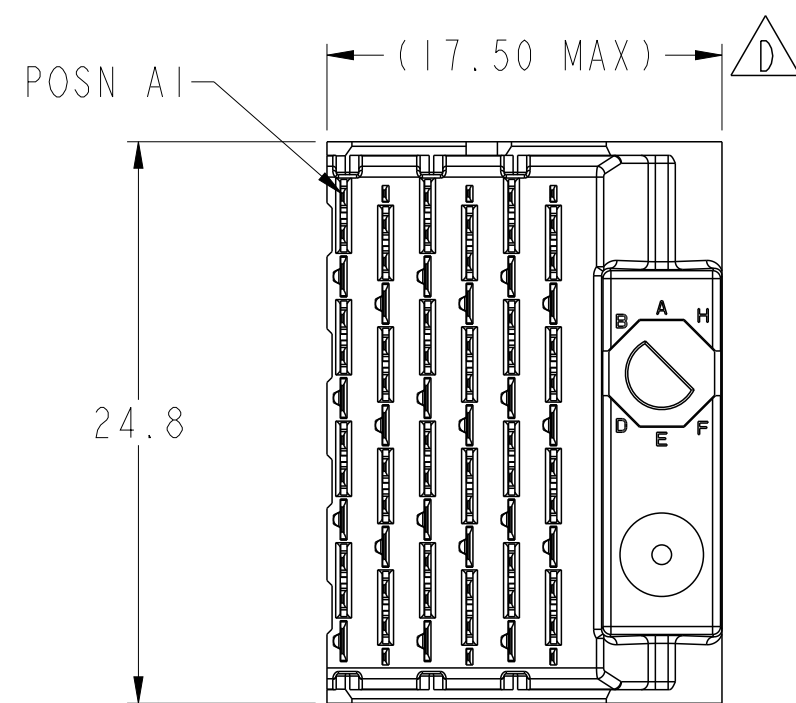
spec ref	SEE NOTES	dr	Jim Swain	2009/03/02	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Roger Ng	2011/10/07	chr	-	ecn no	ELX-S-006600-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2011/10/07	product family	XCede	rel level	Released	rev	D
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	angular	0° ±°	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 3 of 8			

RIGHT POLARIZING/GUIDE MODULE

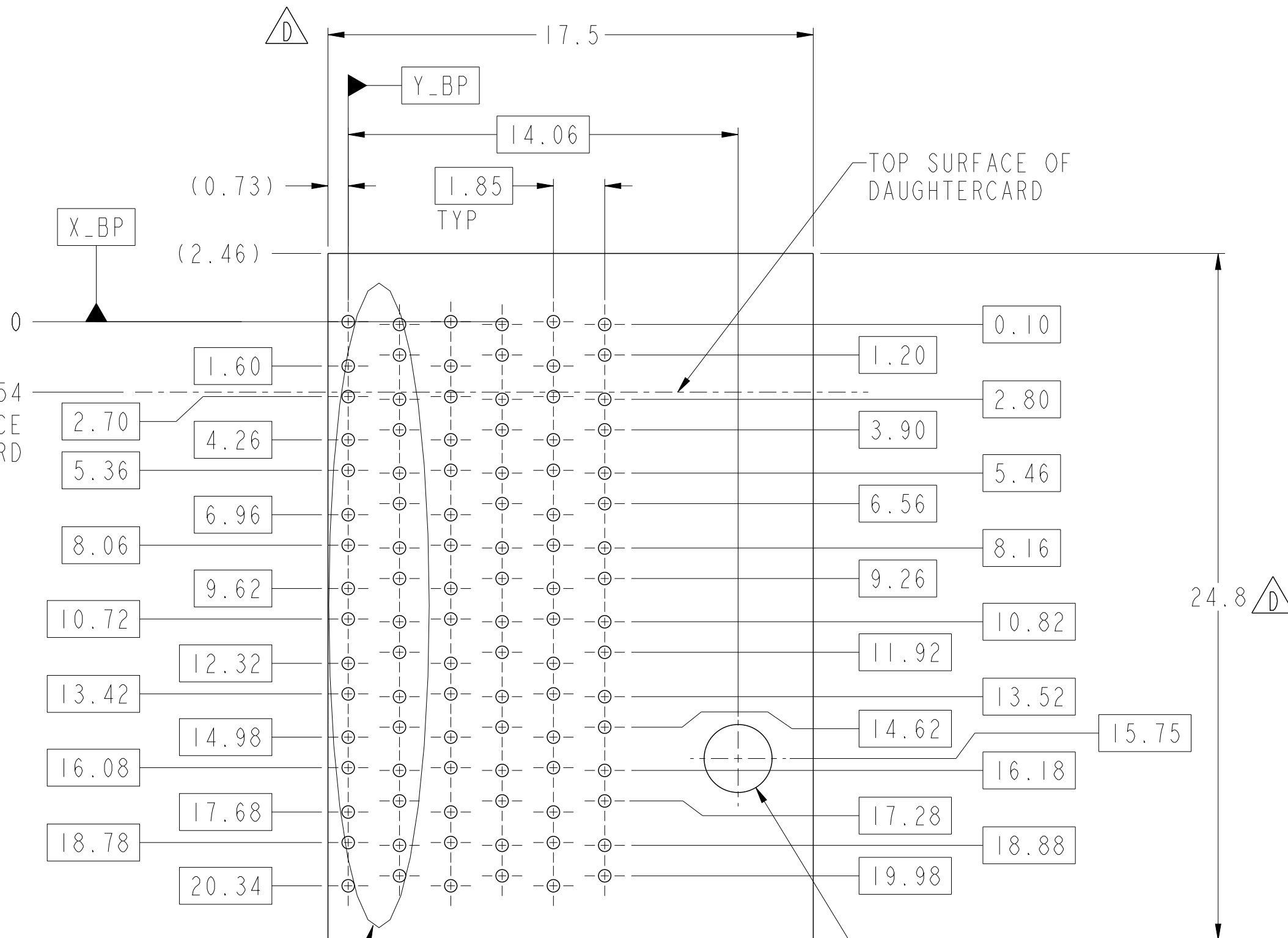
SEE NOTE 8



SEE NOTE 5



TO TOP SURFACE OF DAUGHTERCARD



SEE DETAIL A (SHEET 8)

NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

Ø 2.55
2.35

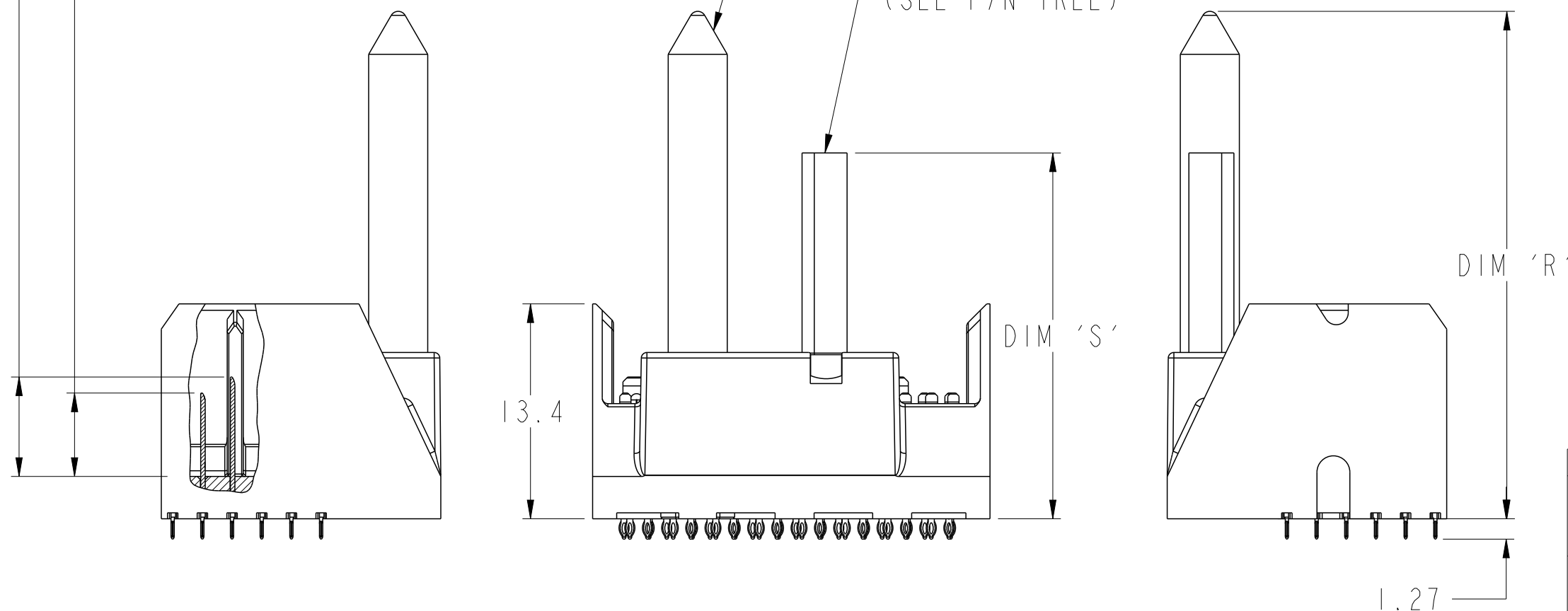
Ø 0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

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

GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)



ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

spec ref	SEE NOTES	dr	Jim Swain	2009/03/02	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/07	chr	-	ecn no	ELX-S-006600-1	rel level	Released
ASME Y14.5		app	Chen-Hong Tan	2011/10/07	product family	XCede	rel level	Released		
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5		www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 4 of 8				

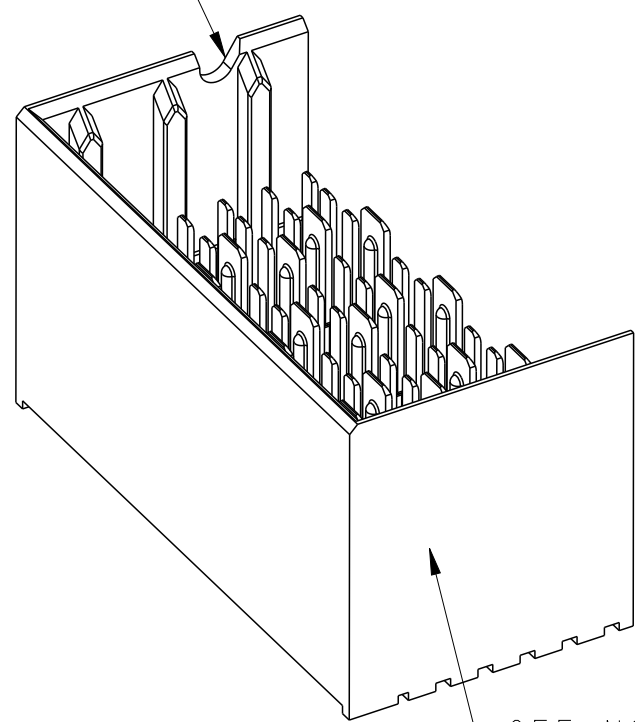
PDS: Rev :D

STATUS:Released

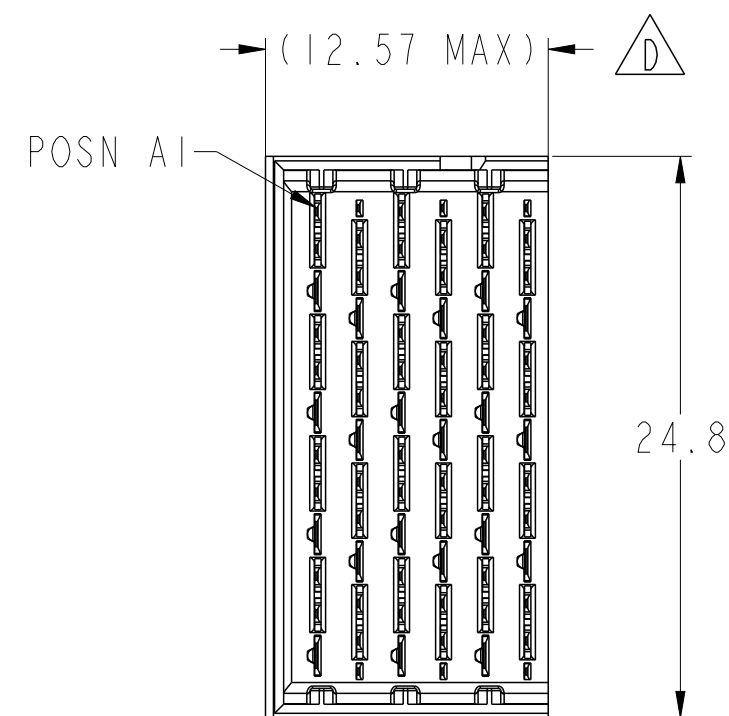
Printed: Oct 07, 2011

LEFT WALL MODULE

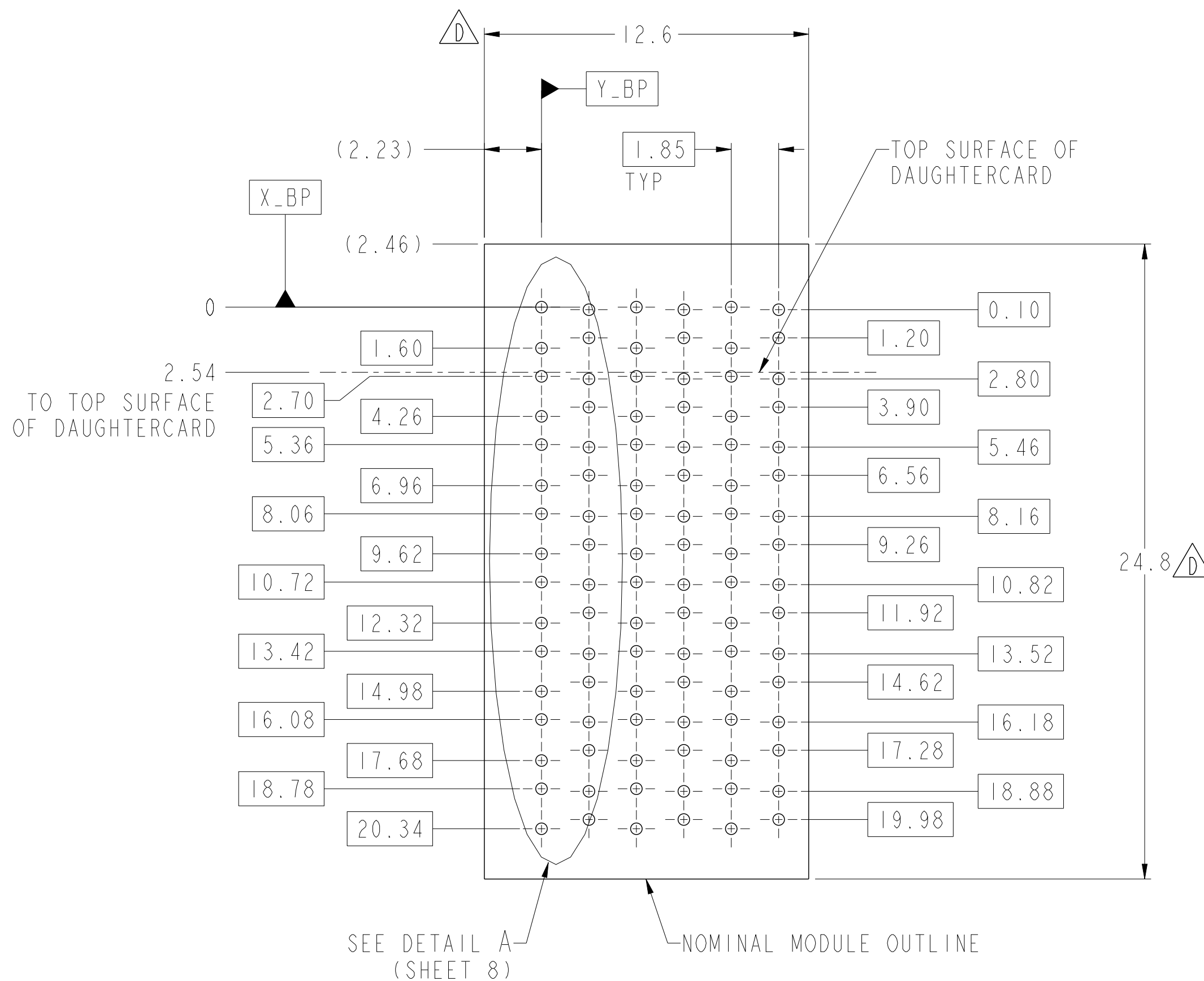
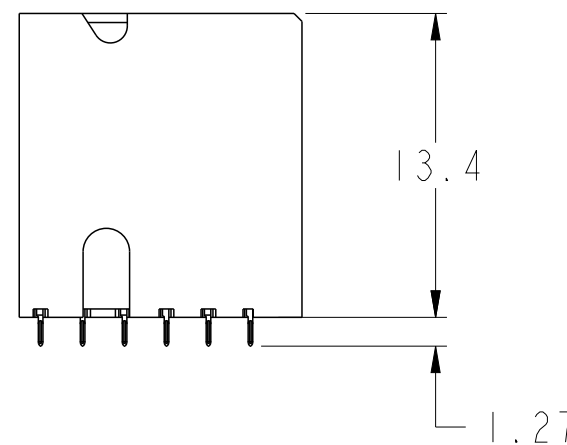
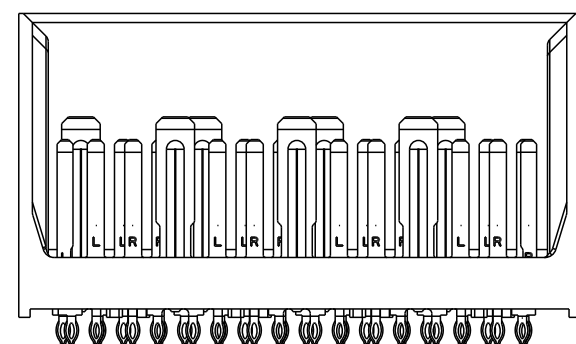
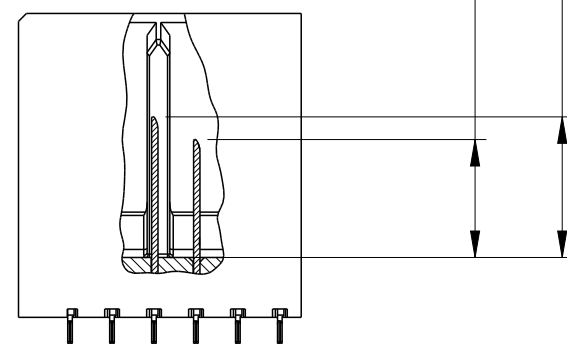
SEE NOTE 8



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



spec ref	SEE NOTES	dr	Jim Swain	2009/03/02	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/07	chr	-	ecn no	ELX-S-006600-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2011/10/07	product family	XCede	rel level	Released	rev	D
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5		www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 5 of 8				

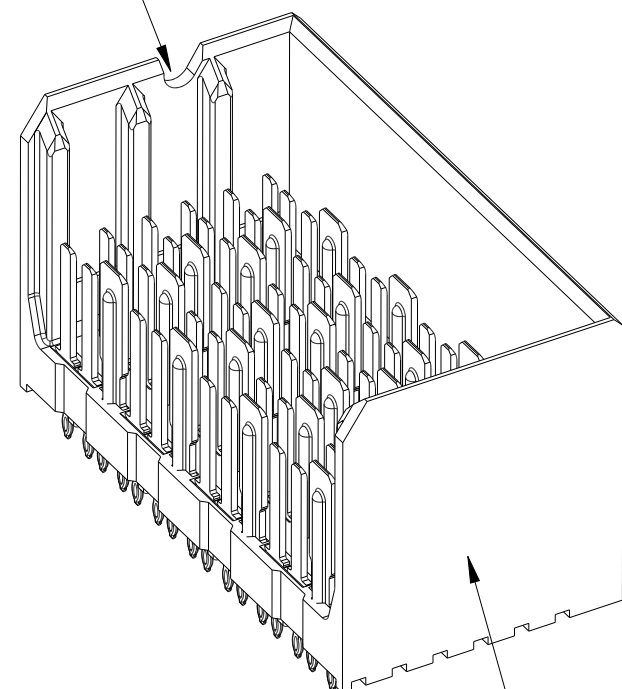
PDS: Rev :D

STATUS:Released

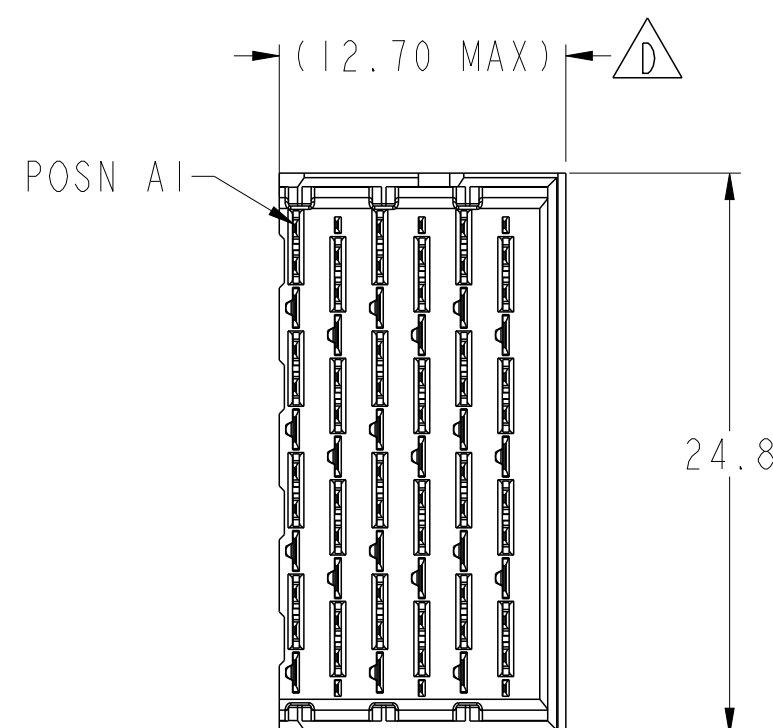
Printed: Oct 07, 2011

RIGHT WALL MODULE

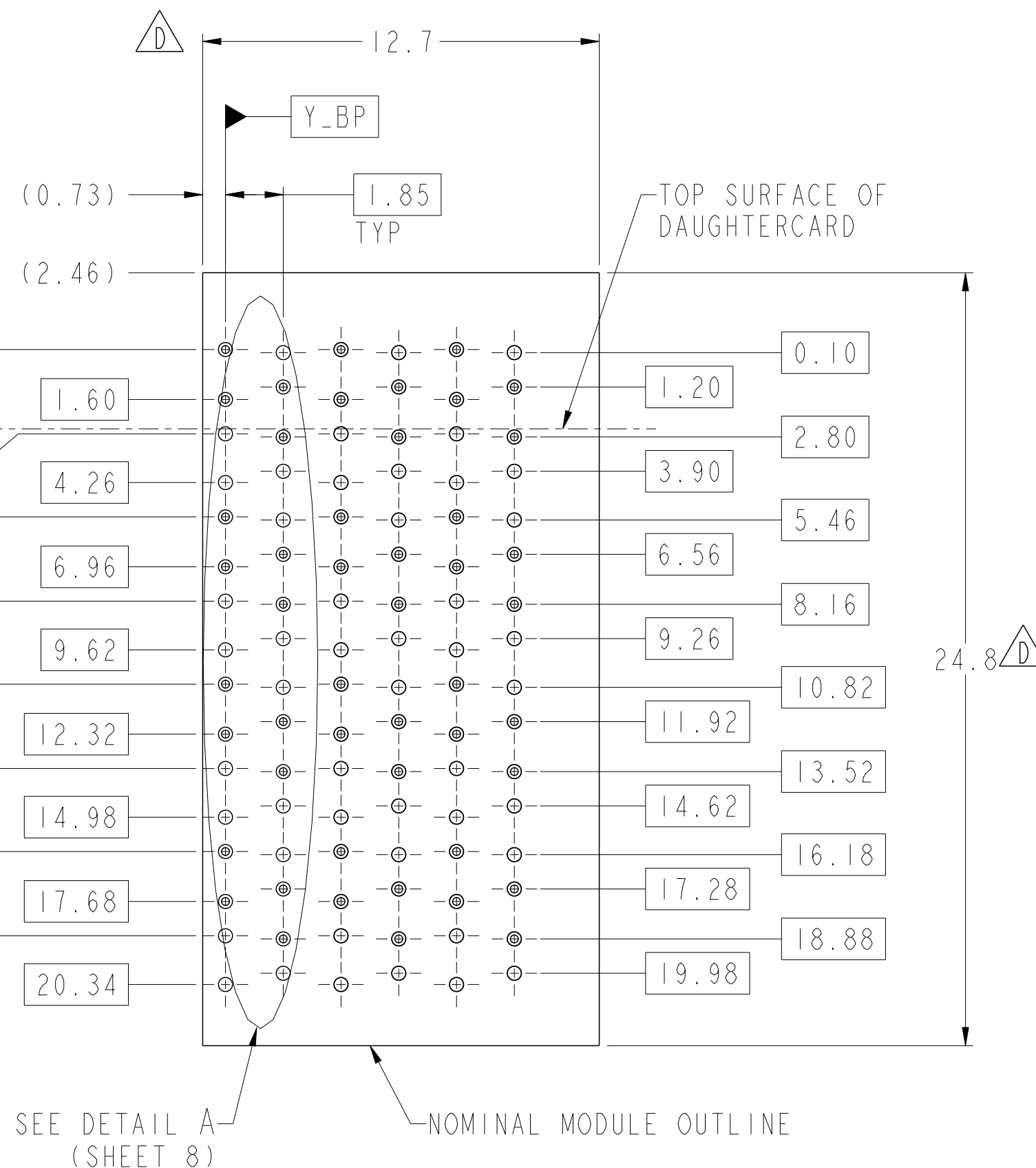
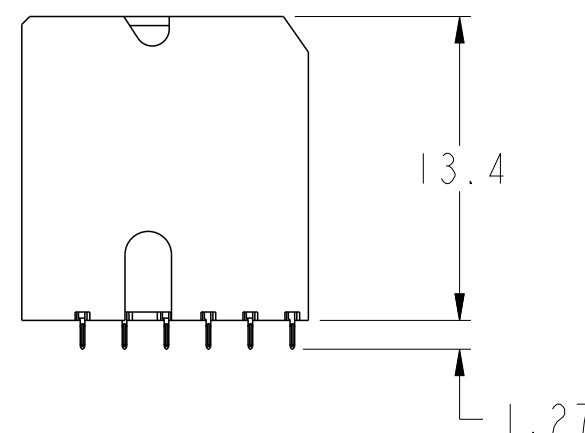
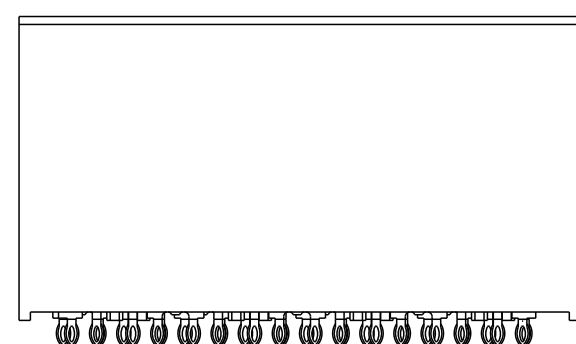
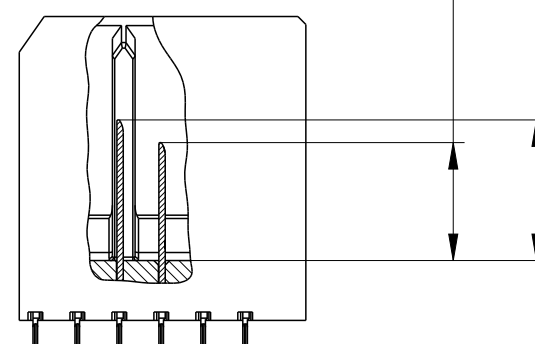
SEE NOTE 8



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



spec ref		SEE NOTES		dr		Jim Swain		2009/03/02		projection		size		scale							
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Roger Ng		2011/10/07						A2		4:1					
ASME Y14.5				chr		-		-													
				appr		Chen-Hong Tan		2011/10/07		product family		XCede		ecn no		ELX-S-006600-1					
														rel level		Released					
surface		linear		0.X ±0.2		0.XX ±0.10		0.XXX ±0.050		FCI		title		MODULE ASSEMBLY		dwg no		10091767		rev	
ASME Y14.5		angular		0° ±°		www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 6 of 8						D	

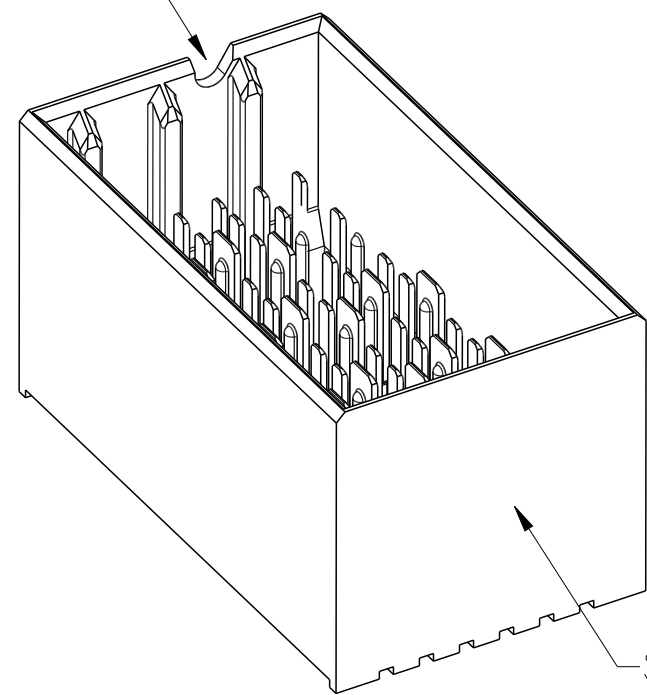
PDS: Rev :D

STATUS:Released

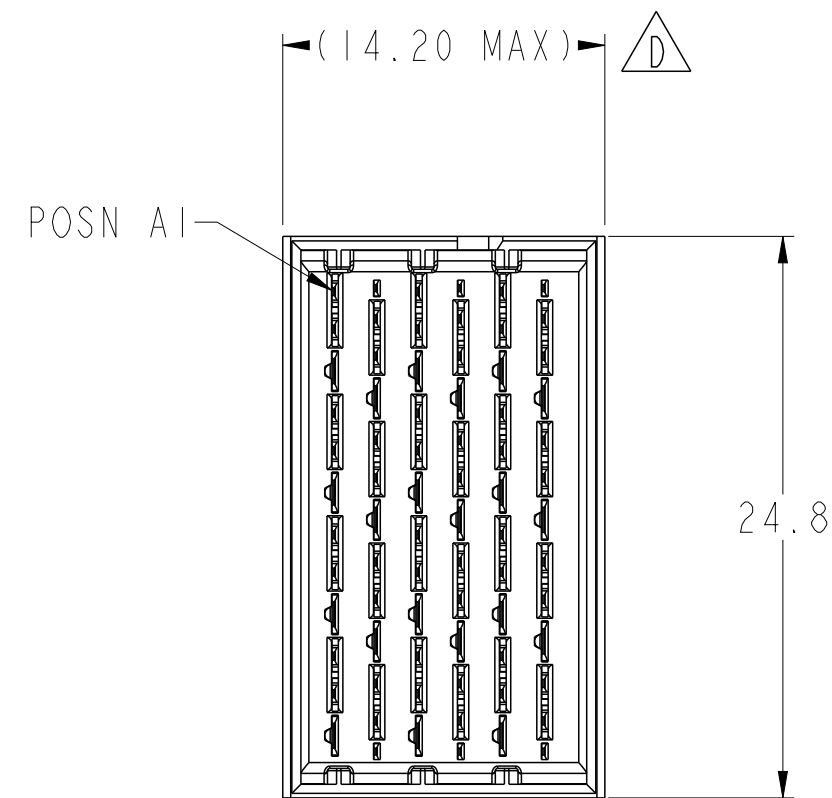
Printed: Oct 07, 2011

4-WALL MODULE

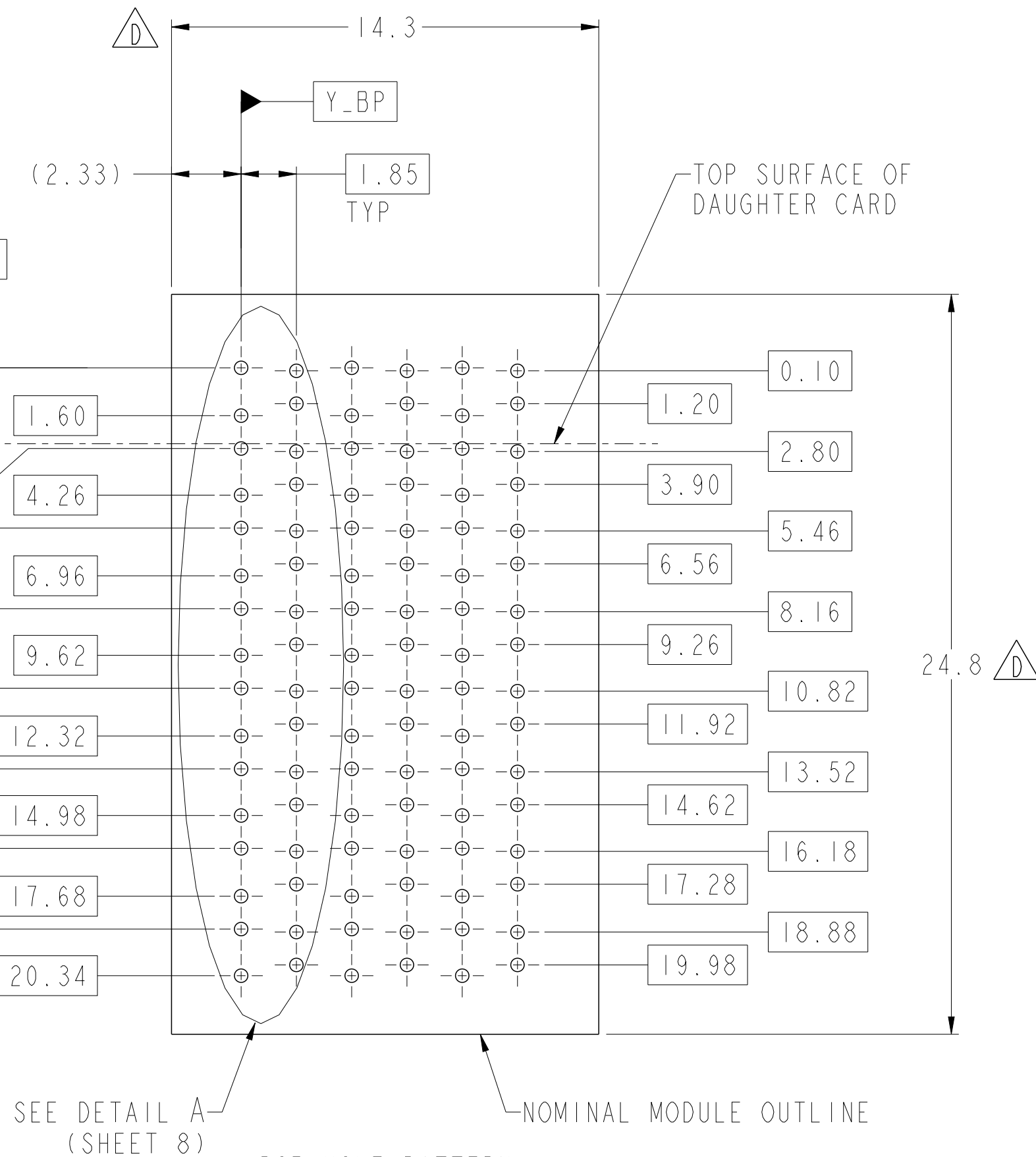
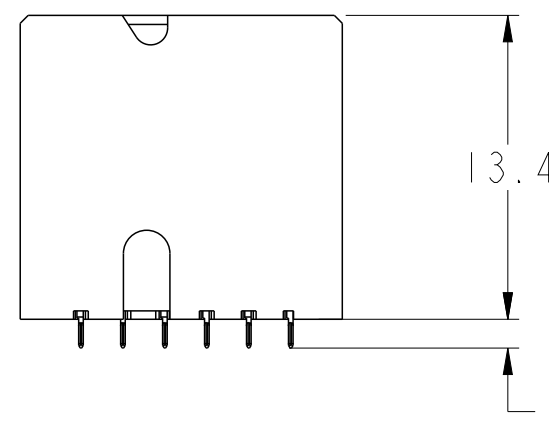
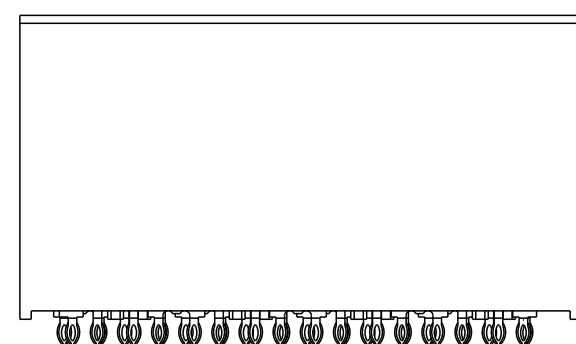
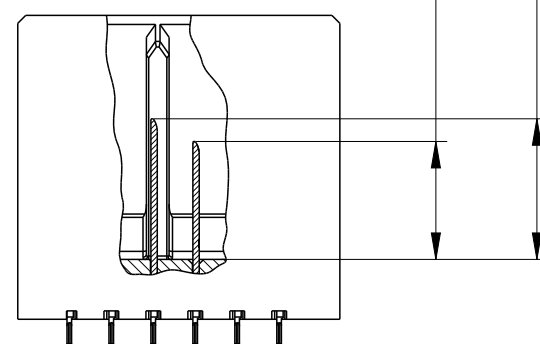
SEE NOTE 8



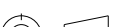
SEE NOTE 5



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



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref		SEE NOTES			dr		Jim Swain		2009/03/02		projection		MM		size		A2		scale		3:1								
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Roger Ng		2011/10/07						ecn no		ELX-S-006600-1												
ASME Y14.5					chr		-		-						appr		Chen-Hong Tan		2011/10/07		product family		XCede		rel level		Released		
surface					linear		0.X		±0.2								title		MODULE ASSEMBLY		dwg no		10091767		rev		D		
0.XX		±0.10		0.XXX		±0.050		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 7 of 8															
ASME Y14.5		angular		0°		±°		www.fci.com																					

PDS: Rev :D

STATUS:Released

Printed: Oct 07, 2011



NOTES:

- CONNECTOR MATERIALS
SHROUD: HIGH-TEMP THERMOPLASTIC, GRAY, UL94V-0
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
- CONTACT PLATING:

SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-588, INCLUDING THE TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE (CO) OR UNCONTROLLED ENVIRONMENT (UE) TEST SEQUENCE AS NOTED IN P/N TREE.

PRESS-FIT TAILS: TIN OVER NICKEL (LF), OR TIN-LEAD ALLOY OVER NICKEL (NON-LF). SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588
- APPLICATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR-PHASE REFLOW OVEN.
- PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.
- NOTCH INDICATES "ROW A" SIDE OF CONNECTOR.
- SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PN SELECTION, ETC.
- SCREW IS OPTIONAL AND ENGAGES WITH BOTTOM OF GUIDE-PIN FROM BENEATH THE PCB FOR ADDITIONAL GUIDE-PIN SUPPORT.
- OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.
- A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

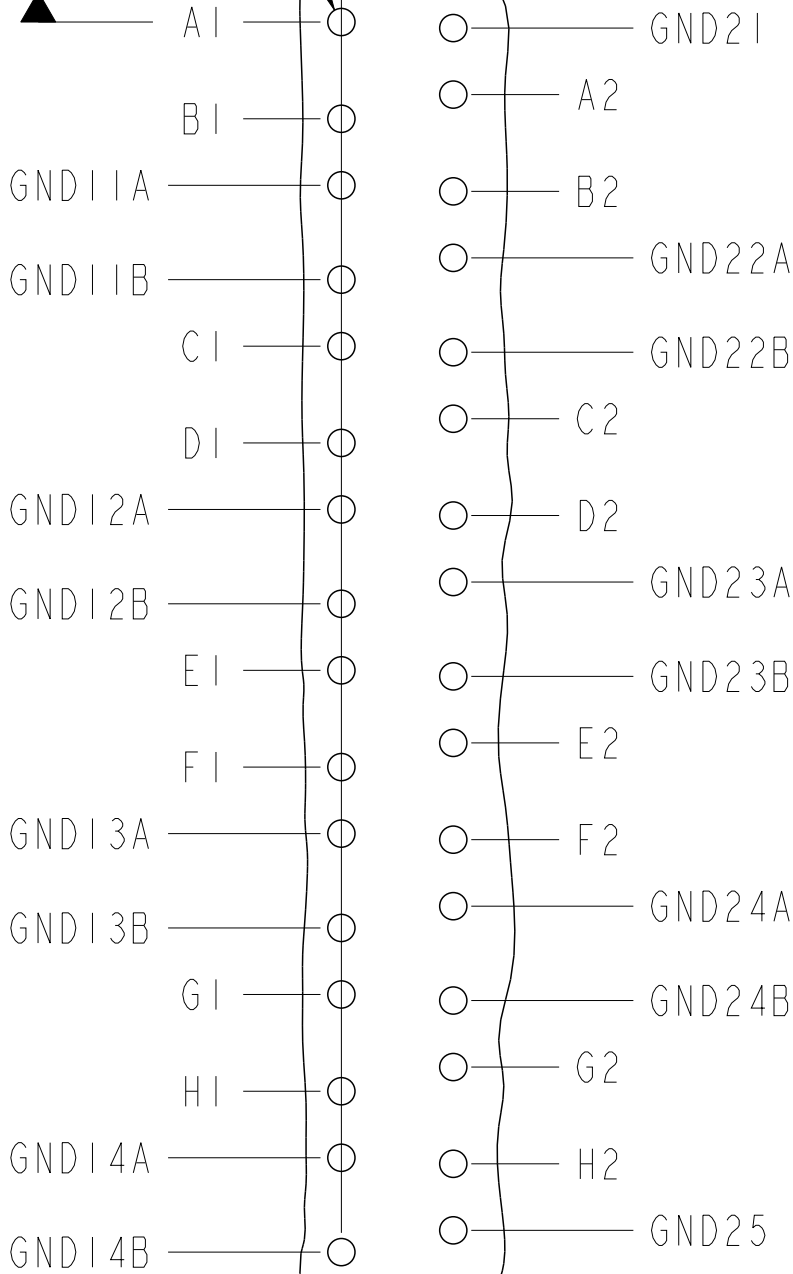
COMPLIANT PIN DRILL	PTH	PAD
Ø0.55 [0.0217"]	Ø0.45±0.05	Ø0.85
Ø0.45 [0.0177"]	Ø0.36±0.05	Ø0.75

REFER TO TABLE 3 FOR PTH, DRILL & PAD SIZES

	Ø0.10	X_BP	Y_BP
---	-------	------	------

X_BP

Y_BP



DETAIL A
SCALE 8:1

spec ref		SEE NOTES			dr Jim Swain 2009/03/02		projection 		size A2		scale 4:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Roger Ng 2011/10/07				ecn no ELX-S-006600-1					
ASME Y14.5					chr -									
					appr Chen-Hong Tan 2011/10/07									
							product family		XCede					
surface - / 		linear		0.X ±0.2			title MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 4-PAIR		dwg no 10091767		rev D			
		0.XX ±0.10												
ASME Y14.5		0.XXX ±0.050												
		angular 0°		±°	www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 8 of 8	