

1 0 1 1 4 8 6 8 - X 0 J - X 0 X L F

4-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, 25.7mm

MODULE
DESCRIPTION

LETTER DESIGNATION REPRESENTED IN DASH NUMBER

BASE
MODULE

LEFT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 3)

J

A

B

C

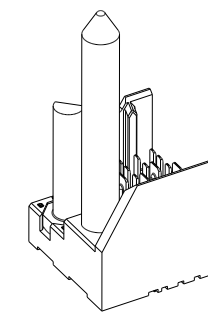
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

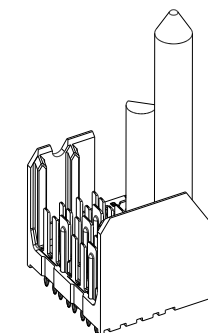
S

T

U

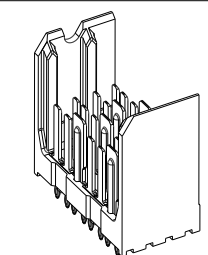
V

W



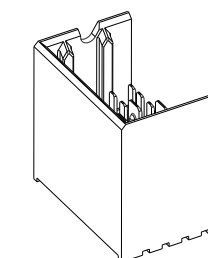
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



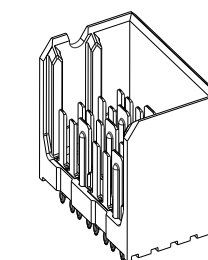
LEFT WALL
MODULE
(SEE SHEET 5)

L



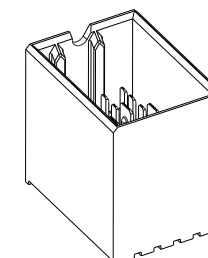
RIGHT WALL
MODULE
(SEE SHEET 6)

M



FOUR WALL
MODULE
(SEE SHEET 7)

1







NUMBER	CONTACT MATING WIPE LENGTH		COMPLIANT PIN DRILL SIZE
	SIGNAL	WIDE GROUND	
1	2	4	Ø0.55 [0.0217"]
2	3	4	Ø0.55 [0.0217"]
3	2	4	Ø0.45 [0.0177"]
4	3	4	Ø0.45 [0.0177"]
5	2	3	Ø0.55 [0.0217"]
6	3	3	Ø0.55 [0.0217"]
7	2	3	Ø0.45 [0.0177"]
8	3	3	Ø0.45 [0.0177"]

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	Kok-Hoe Lee	2010/06/25	projection		MM		size	scale	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Roger Ng	2011/11/23					ecn no	ELX-S-008191-1	
ASME Y14.5			chr	-	-	product family	XCede		rel level	Released		
		appr	Chen-Hong Tan		2011/11/24							
surface 	linear	0.X	±0.2			title	MODULE ASSEMBLY			dwg no	10114868	rev
		0.XX	±0.10									
		0.XXX	±0.050									
ASME Y14.5	angular	0°	±0°		www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw		sheet 1 of 8		D

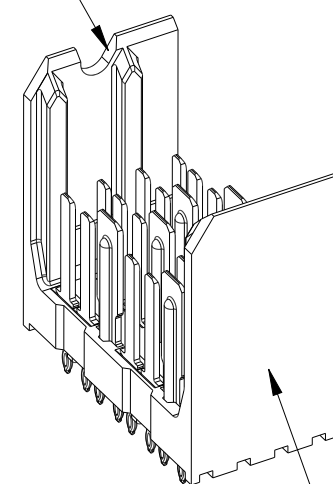
PDS: Rev :D

STATUS:Released

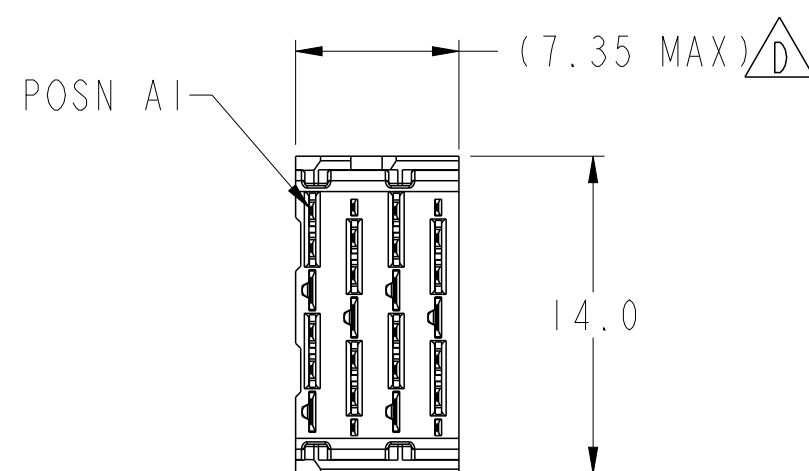
Printed: Nov 24, 2011

OPEN (2-WALL) MODULE

SEE NOTE 8



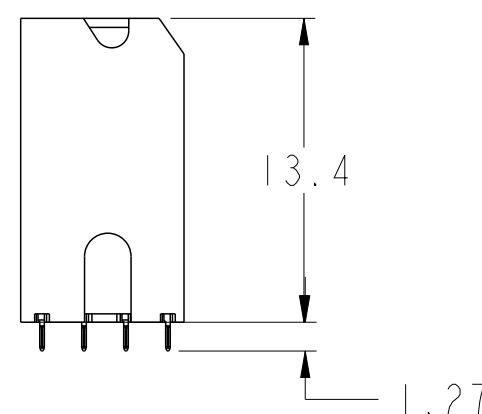
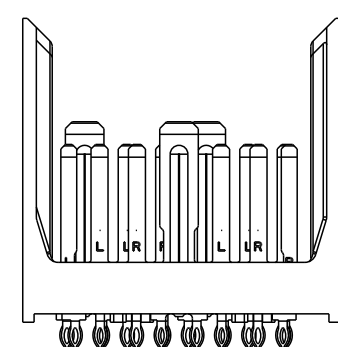
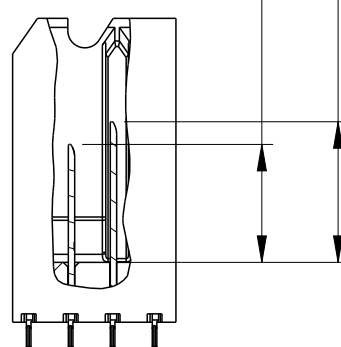
SEE NOTE 5



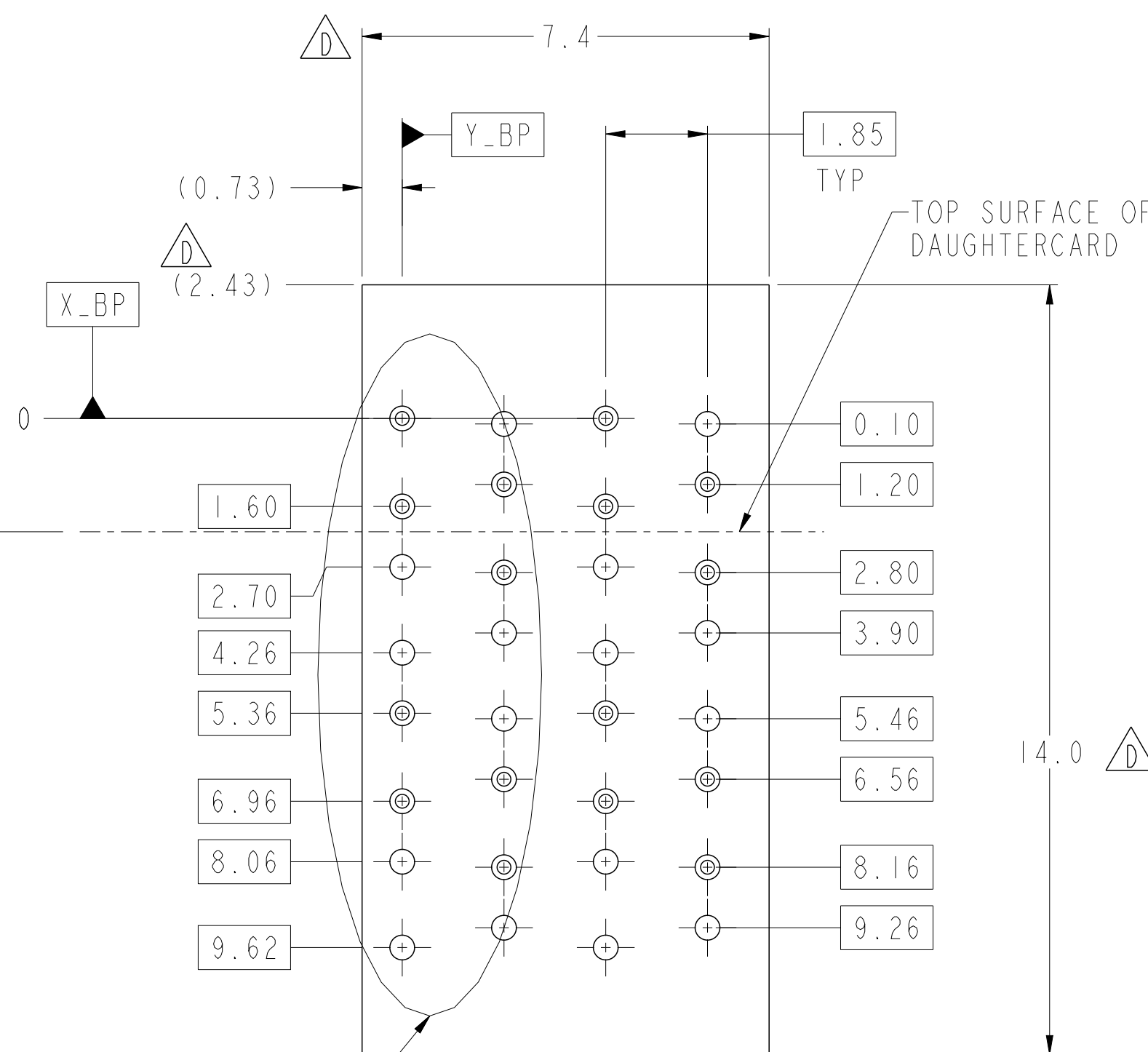
SCALE 3:1

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)



2.06
TO TOP SURFACE
OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

NOMINAL MODULE OUTLINE

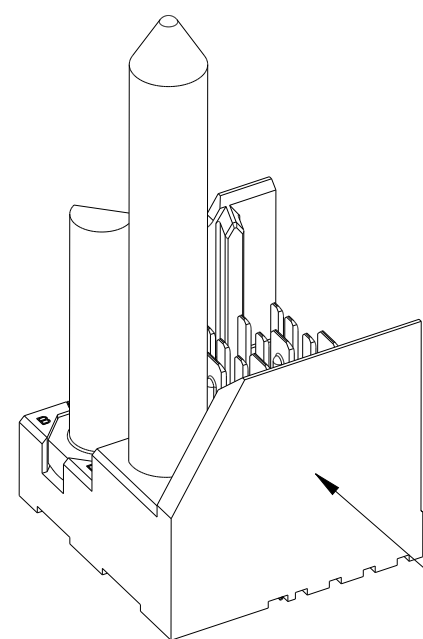
spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Roger Ng	2011/11/23			ecp no	ELX-S-008191-1		
ASME Y14.5				chr	-	-	appr	Chen-Hong Tan			2011/11/24	product family
surface	linear	0.X	±0.2	www.fci.com	cat. no.	SEE P/N TREE			Product - Customer Drw	sheet 2 of 8		
		0.XX	±0.10									
		0.XXX	±0.050									
ASME Y14.5	angular	0°	±°									

PDS: Rev :D

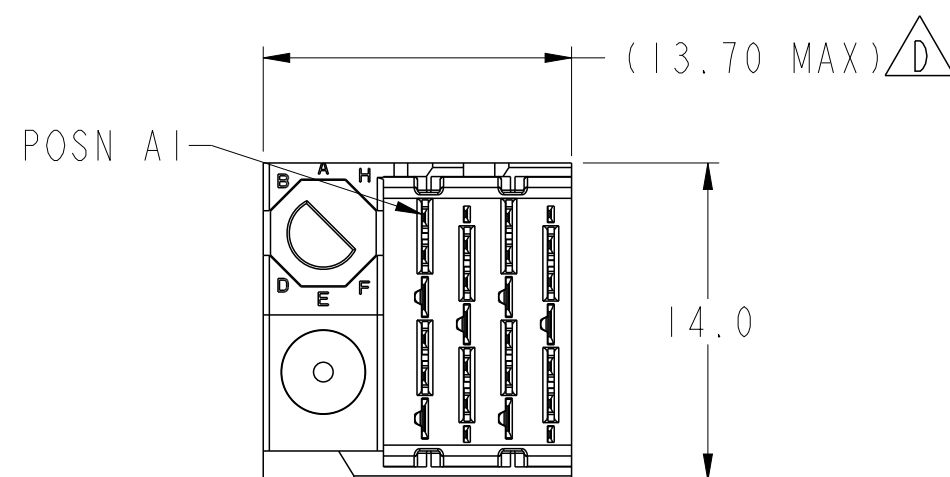
STATUS:Released

Printed: Nov 24, 2011

LEFT POLARIZING/GUIDE MODULE



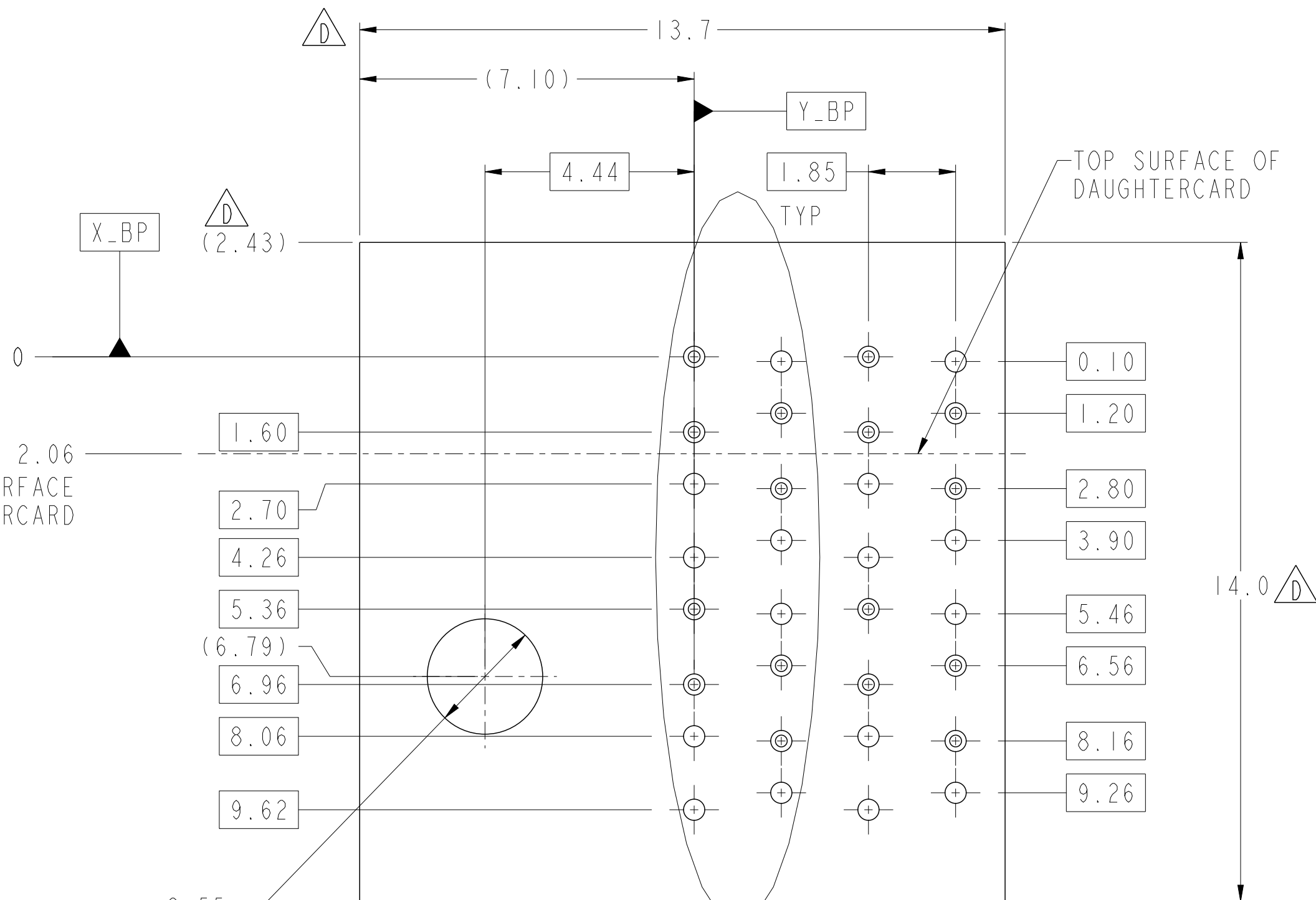
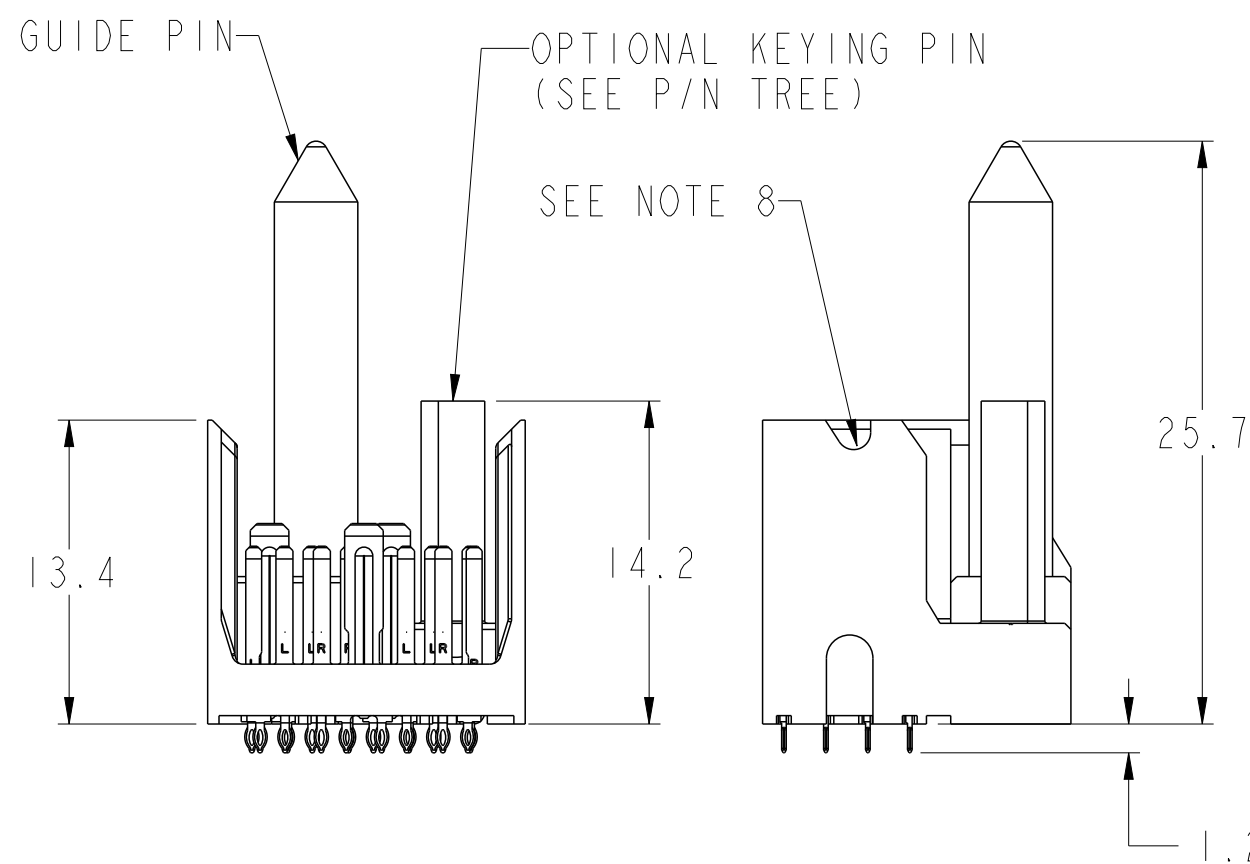
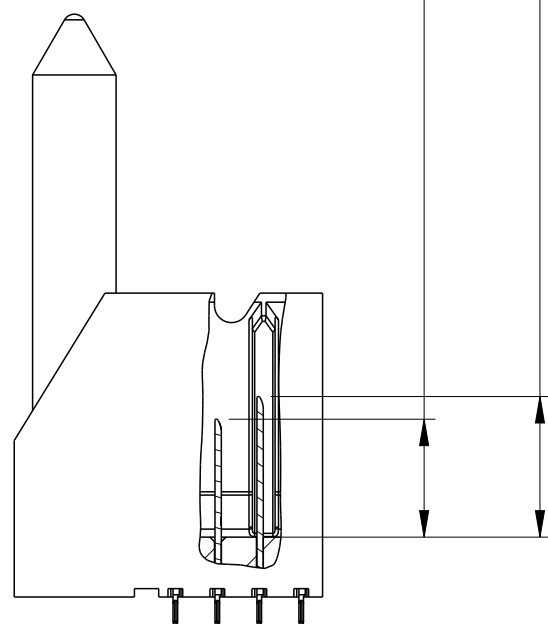
SEE NOTE 5



SCALE 3:1

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)



⊕	⊙	X_BP	Y_BP
SEE NOTE 11 & TABLE 1			

SEE DETAIL A (SHEET 8)
PCB HOLE PATTERN COMPONENT SIDE SCALE 10:1
NOMINAL MODULE OUTLINE

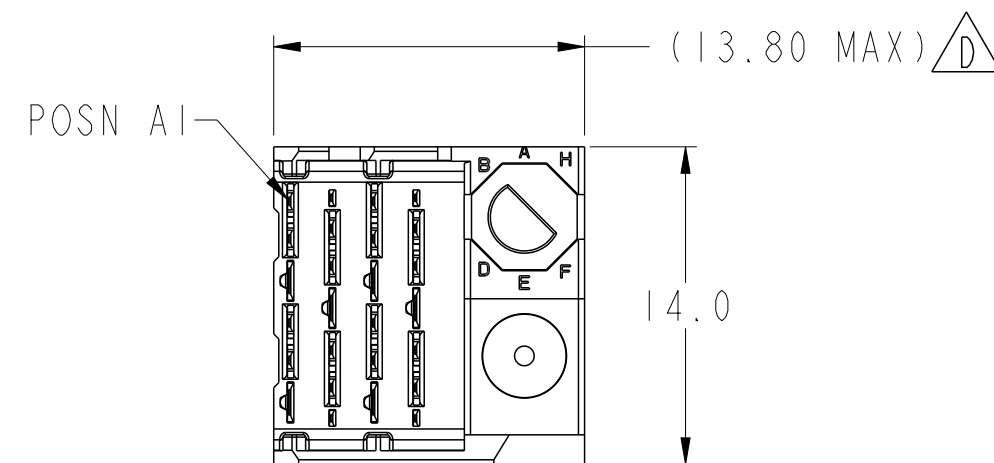
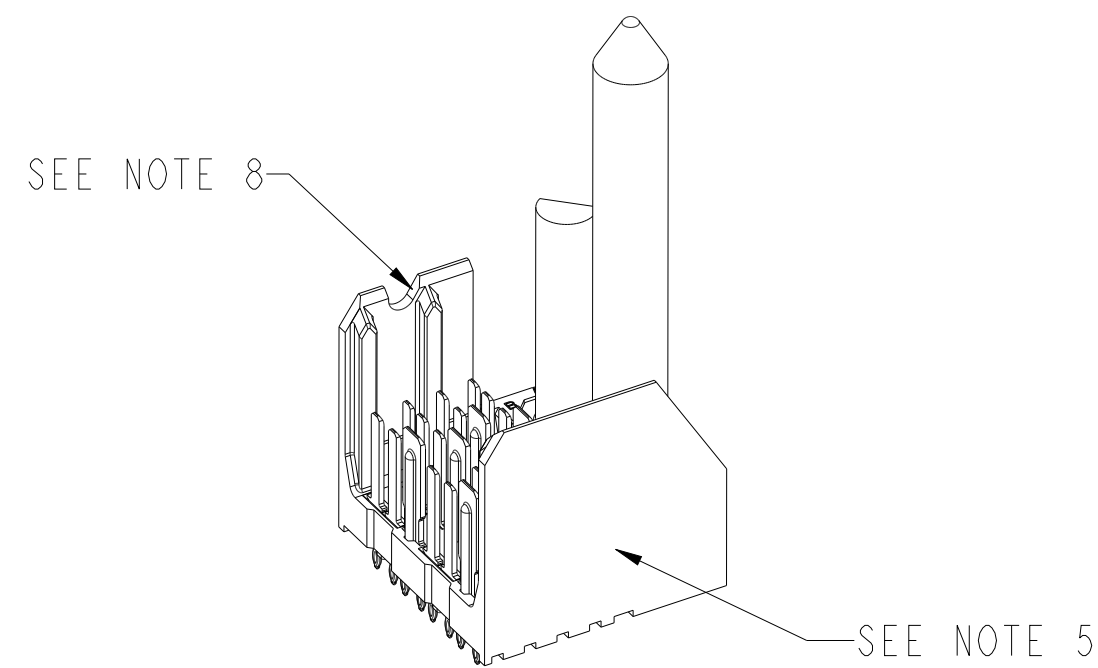
spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/11/23	chr	-	ecn no	ELX-S-008191-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2011/11/24	product family	XCede	rel level	Released		
surface	linear	0.X	±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 3 of 8				

PDS: Rev :D

STATUS:Released

Printed: Nov 24, 2011

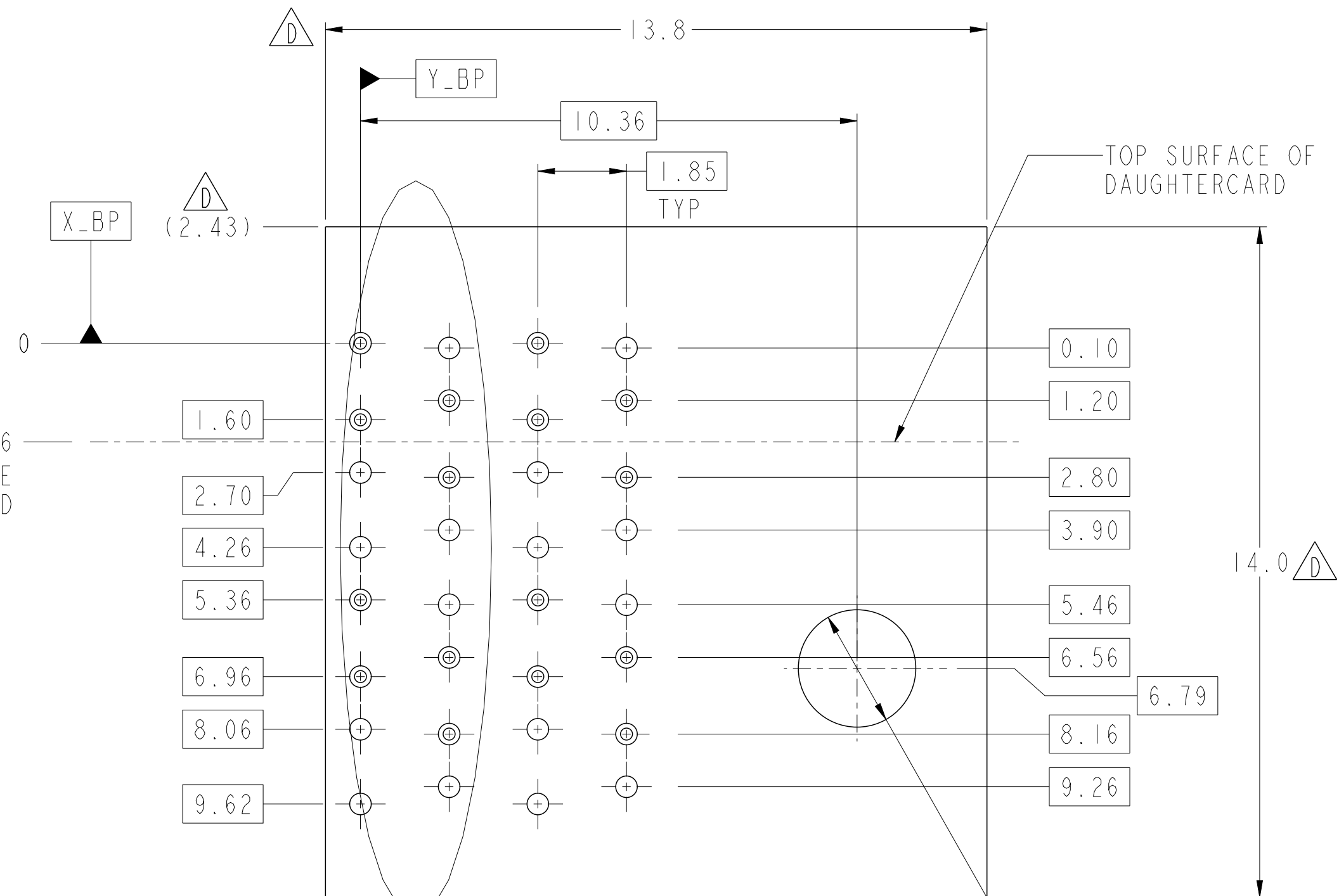
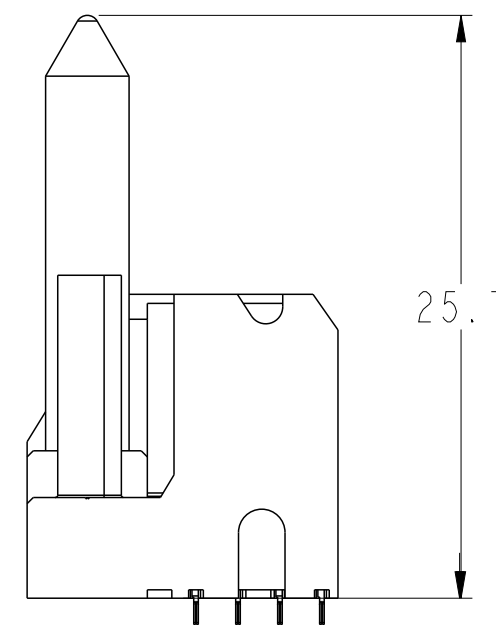
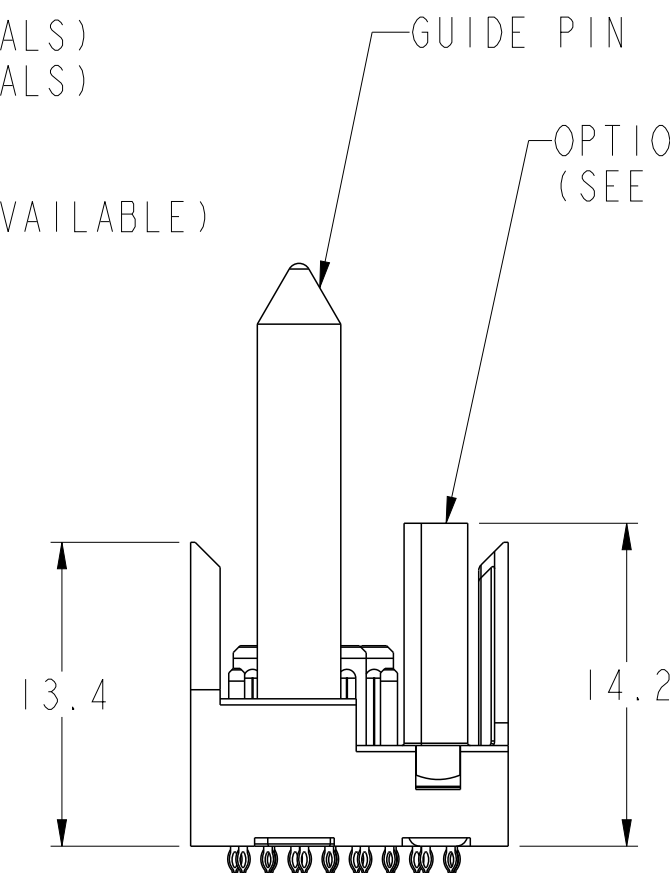
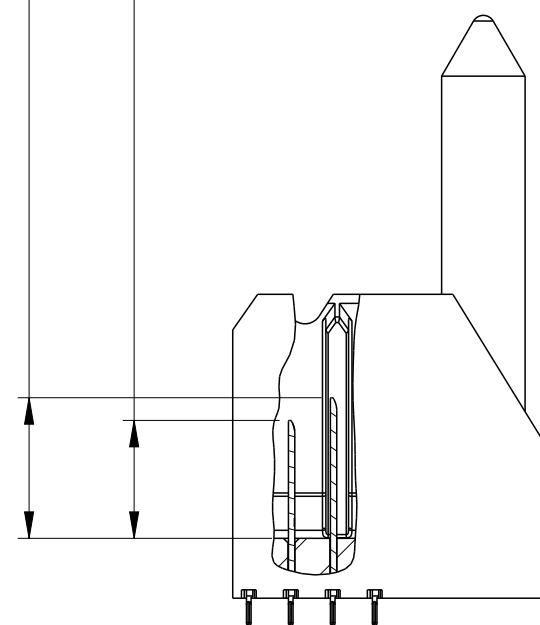
RIGHT POLARIZING/GUIDE MODULE



SCALE 3:1

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 10:1

Ø 2.55
2.35

Ø 0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/11/23	chr	-	ecn no	ELX-S-008191-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2011/11/24	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 4 of 8	rev	D		

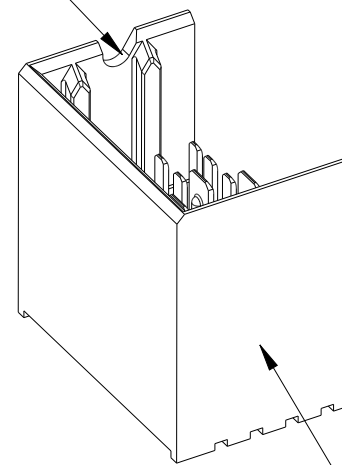
PDS: Rev :D

STATUS:Released

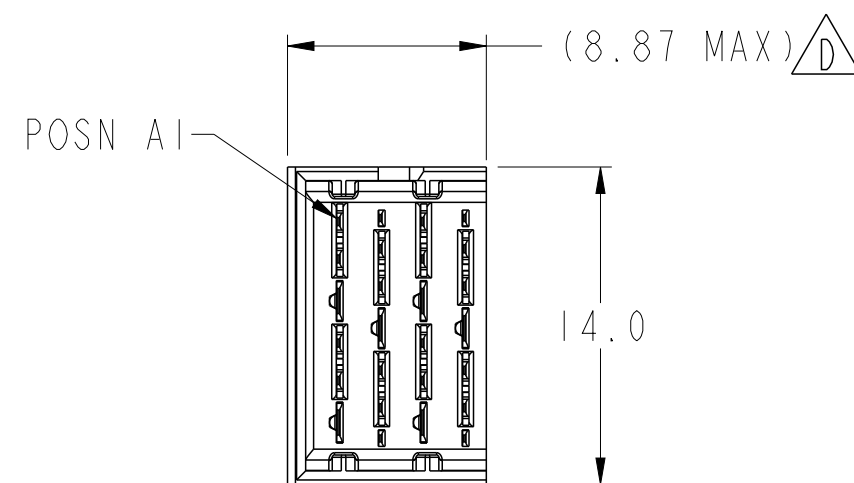
Printed: Nov 24, 2011

LEFT WALL MODULE

SEE NOTE 8



SEE NOTE 5

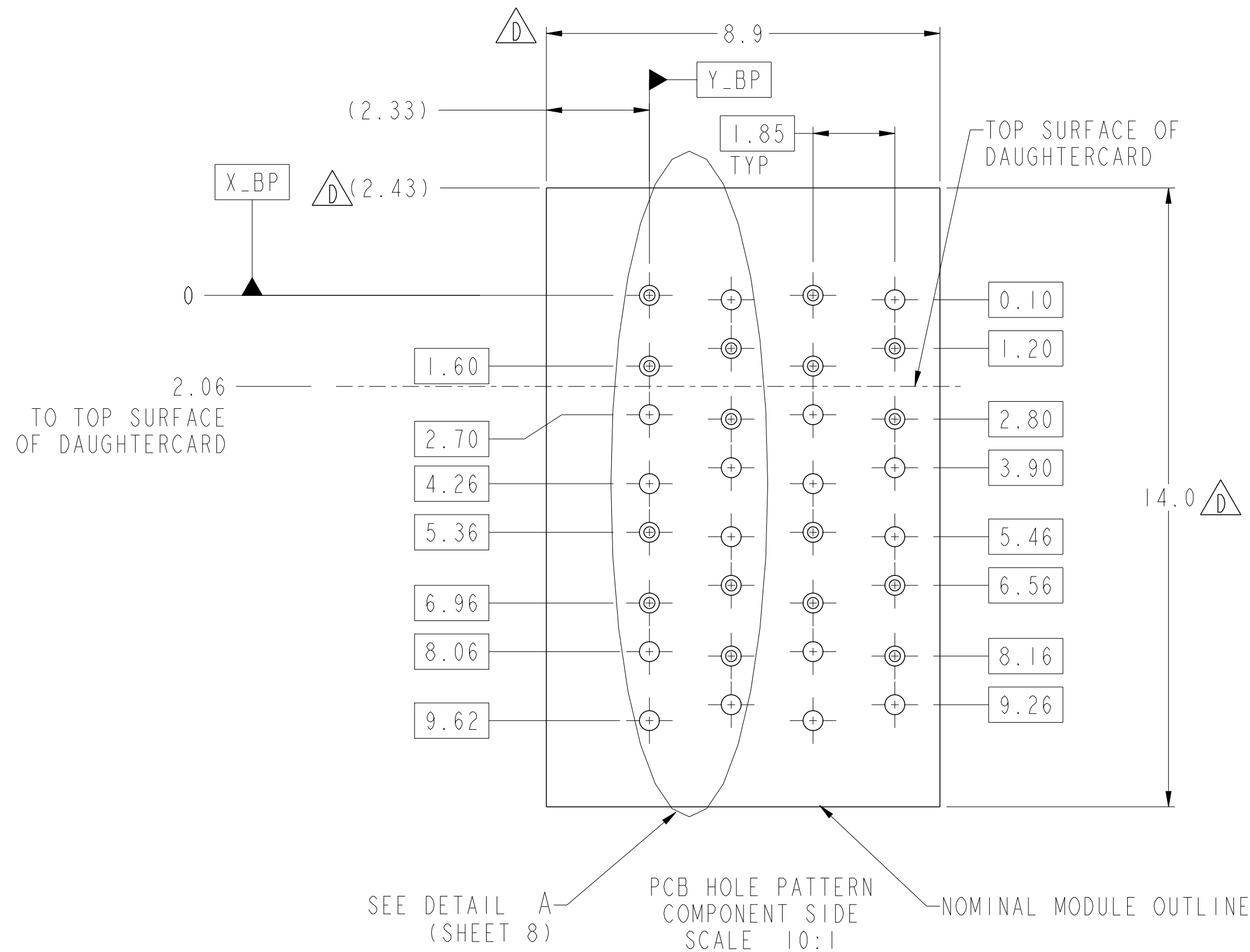
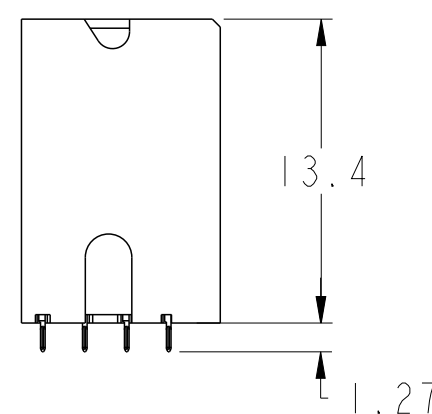
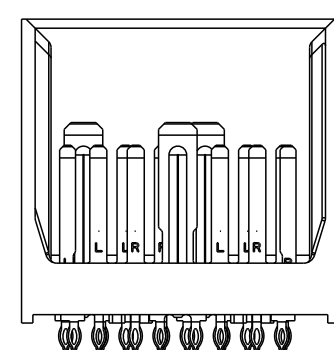
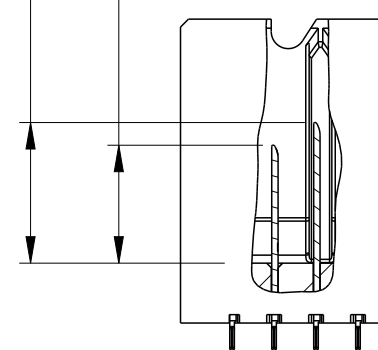


SCALE 3:1

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)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	2:1
tolerance std	ASME Y14.5	eng	Roger Ng	2011/11/23	chr	-	ecn no	ELX-S-008191-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2011/11/24	product family	XCede	rel level	Released	rev	D
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	title	MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 2-PAIR	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 5 of 8			
angular	0° ±°									

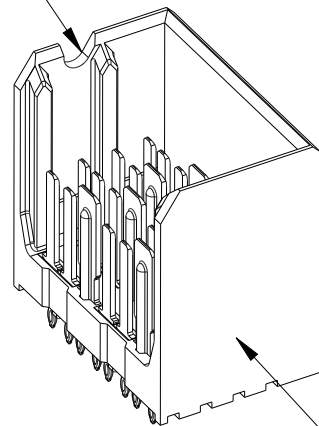
PDS: Rev :D

STATUS:Released

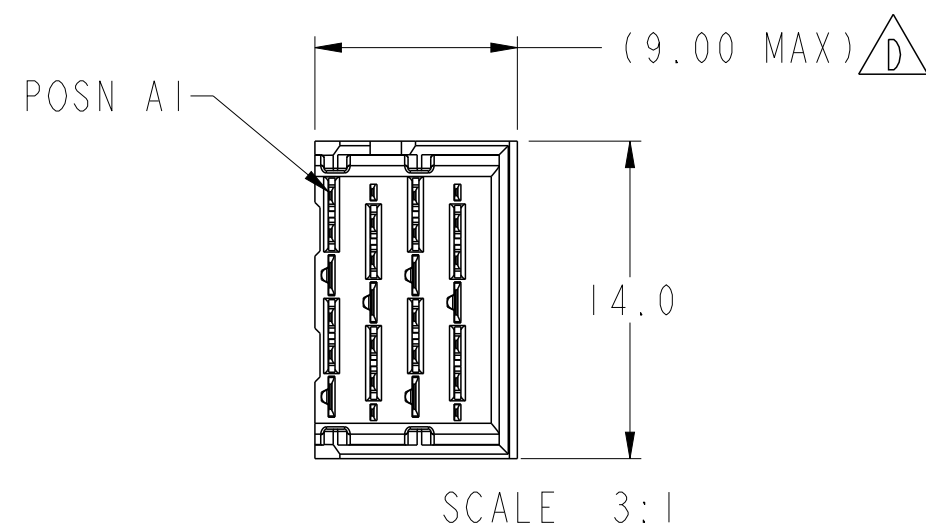
Printed: Nov 24, 2011

RIGHT WALL MODULE

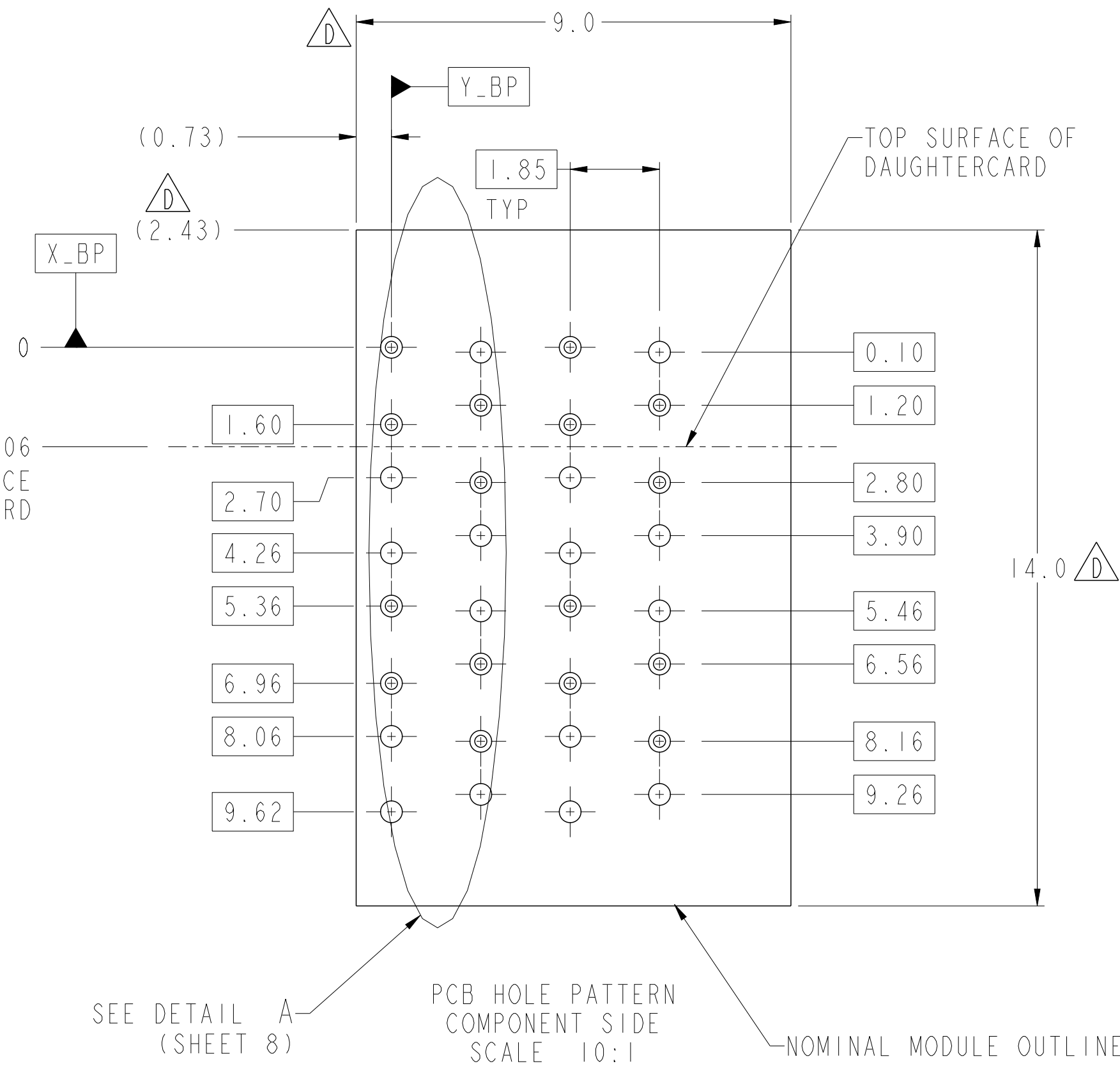
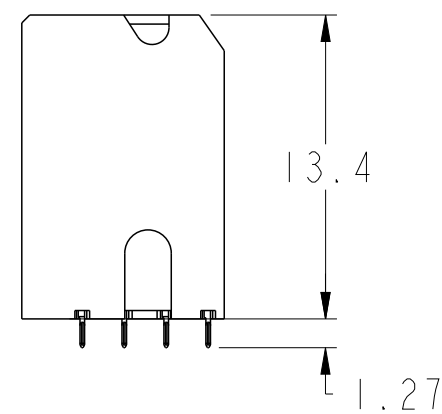
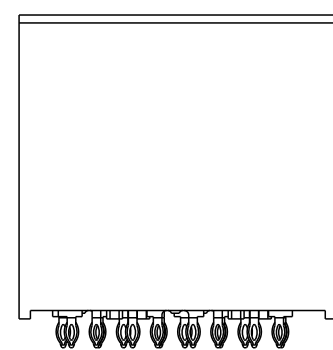
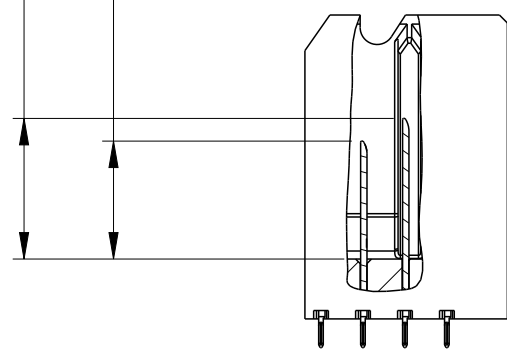
SEE NOTE 8



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 FOR ALL COMBINATIONS AVAILABLE)



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	2:1
tolerance std	ASME Y14.5	eng	Roger Ng	2011/11/23	chr	-	ecn no	ELX-S-008191-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2011/11/24	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 6 of 8		

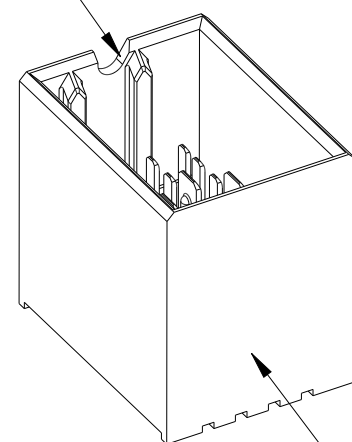
PDS: Rev :D

STATUS:Released

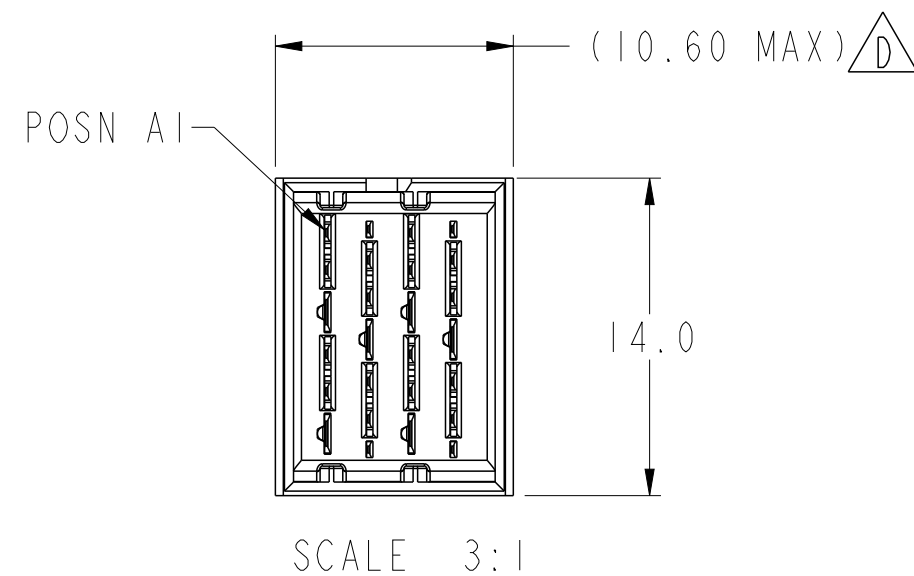
Printed: Nov 24, 2011

FOUR WALL MODULE

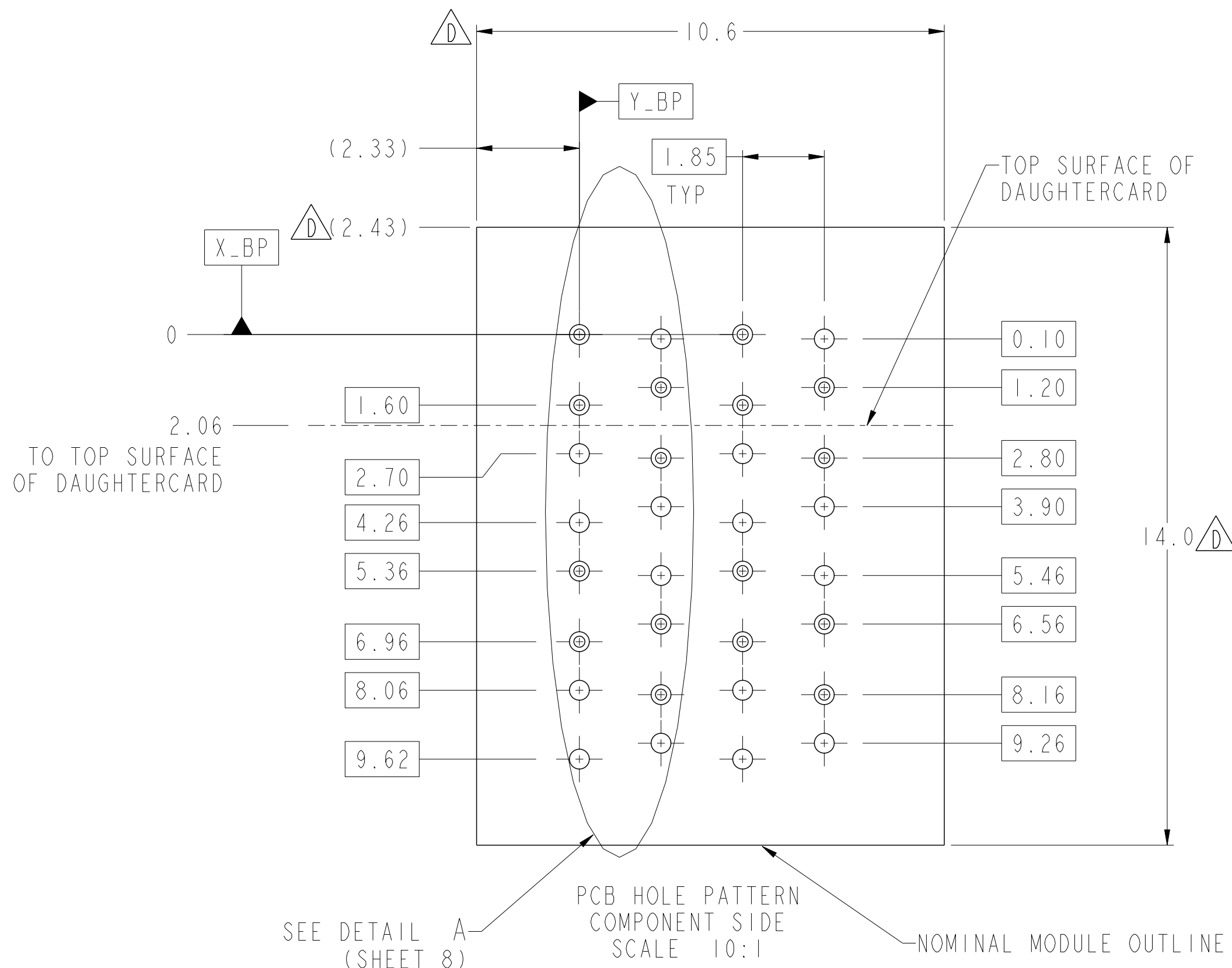
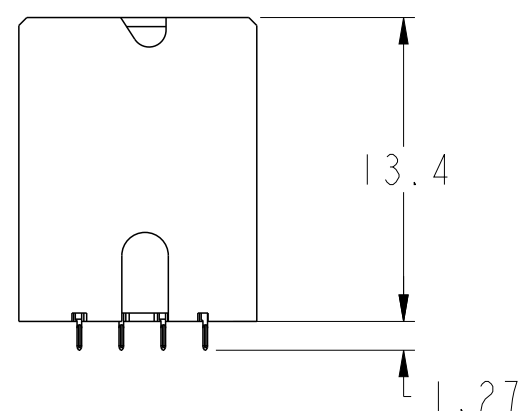
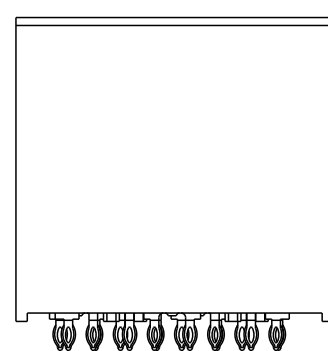
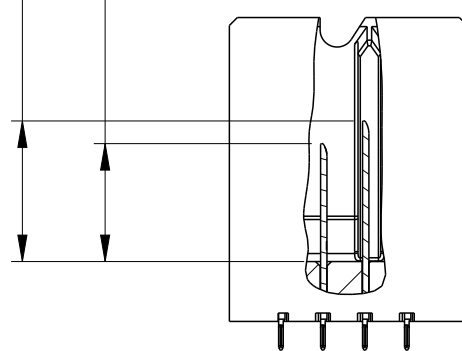
SEE NOTE 8



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)



spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	2:1
tolerance std	ASME Y14.5	eng	Roger Ng	2011/11/23	chr	-	ecn no	ELX-S-008191-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2011/11/24	product family	XCede	rel level	Released	rev	D
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	title	MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 2-PAIR			dwg no	10114868		sheet	7 of 8
angular	0° ±°	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw					

PDS: Rev :D

STATUS:Released

Printed: Nov 24, 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 TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST (CO) OR UNCONTROLLED ENVIRONMENT TEST SEQUENCE AS NOTED IN P/N TREE.


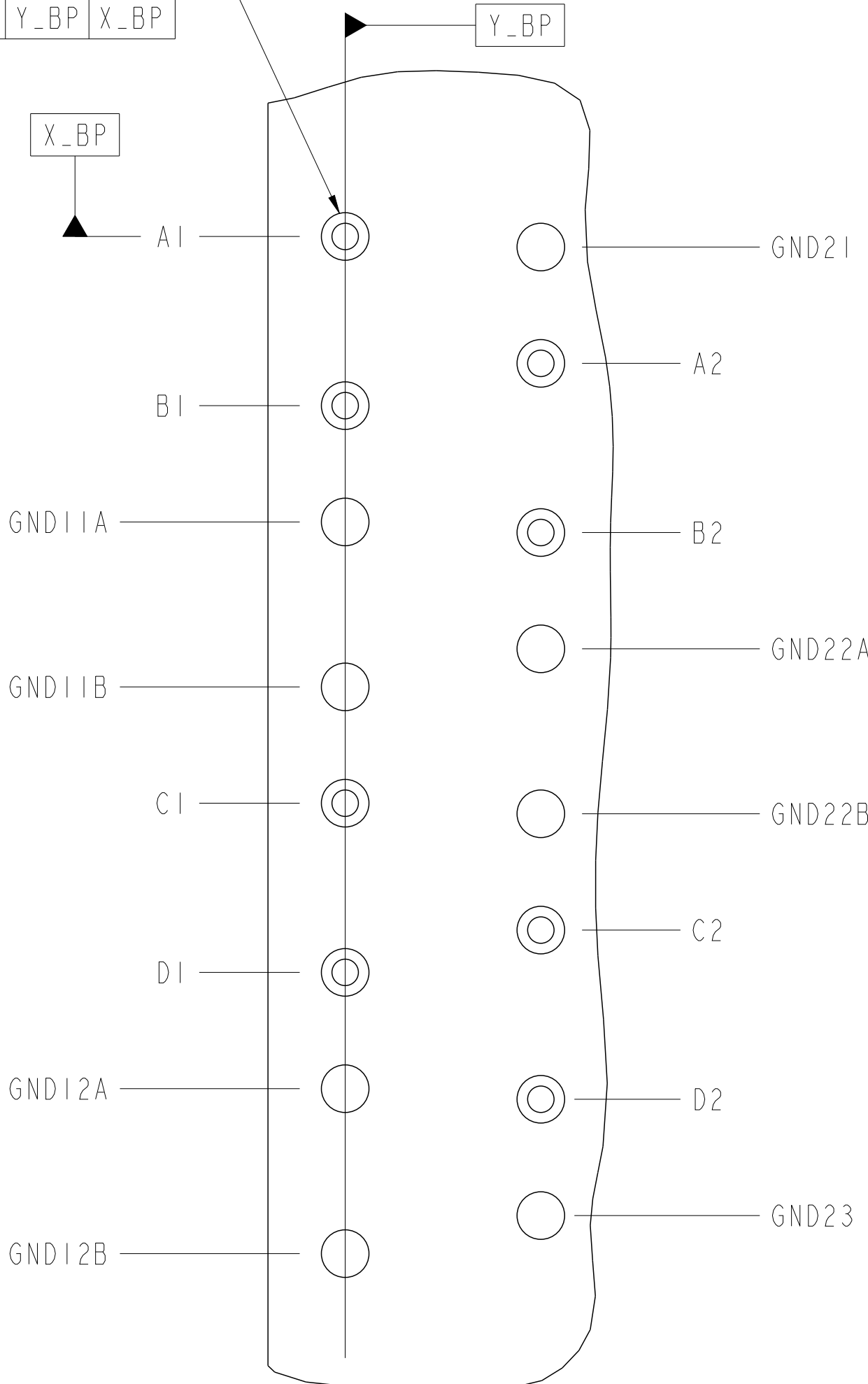
PRESS-FIT TAILS: TIN OVER NICKEL, OR TIN-LEAD ALLOY OVER NICKEL. SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588
- APPLICATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, 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 WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

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

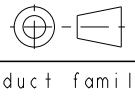

COMPLIANT PIN DRILL	PTH	PAD
Ø0.55 [0.0217"]	Ø0.45±0.05	Ø0.85
Ø0.45 [0.0177"]	Ø0.36±0.05	Ø0.75

REFER TABLE 3 FOR PTH, DRILL & PAD SIZES

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



DETAIL A
SCALE 20:1

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/11/23			ecn no	ELX-S-008191-1		
ASME Y14.5		chr	-	-	product family	XCede	rel level	Released		
		appr	Chen-Hong Tan	2011/11/24						
surface	linear	0.X	±0.2				title		MODULE ASSEMBLY	
		0.XX	±0.10							
		0.XXX	±0.050							
ASME Y14.5	angular	0°	±°		www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 8 of 8	

PDS: Rev :D

STATUS:Released

Printed: Nov 24, 2011