

1

2

3

4

5

6

7

8

10113949 - X 0 E - X 0 X L F

8-COLUMN DIFFERENTIAL SIGNAL

LEAD-FREE DESIGNATION ONLY WITH APPLICABLE PLATING CODES

LETTER

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

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)

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

10104997-002LF

#2-56 X .375" PHILLIPS PANHEAD W/SQ CONICAL WASHER

1.60 - 5.00

10104997-003LF

#2-56 X .500" PHILLIPS PANHEAD W/SQ CONICAL WASHER

5.00 - 10.00

www.fciconnect.com

surface - ✓

tolerance std ASME Y14.5

projection

MM

TOLERANCES UNLESS OTHERWISE SPECIFIED

size A2

Scale 1:1

Dr

KH LEE

2010-06-15

ANGULAR

0.X

±0.2

size

A2

Scale

1:1

Eng

KH LEE

2010-06-15

LINEAR

0.XX

±0.10

ECN

-

Chr

KH LEE

2010-06-15

0° ±°

±0.050

SEE NOTES

Appr

-

-

Product family

XCede

Spec ref

SEE NOTES

FCI

MODULE ASSEMBLY

VERTICAL HEADER, 8-COLUMN, 2-PAIR

catalog no

SEE P/N TREE

CUSTOMER

sheet 1 of 8

title

10113949

Rev.

1

rev

ecn no

dr

date

1

NEW

KHL

2010-06-15

-

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REV F - 2006-04-17

1

2

3

4

5

6

7

8

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PRELIMINARY

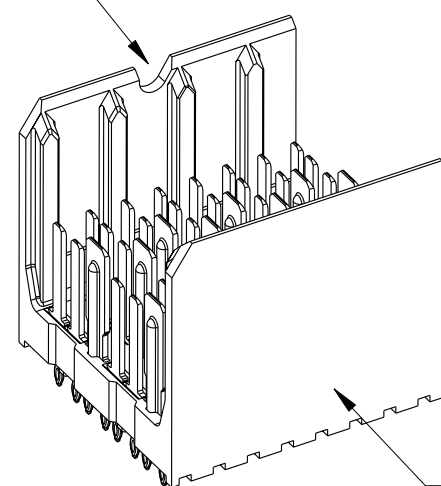
PDM: Rev:1

STATUS: In Work

Printed: Aug 16, 2010

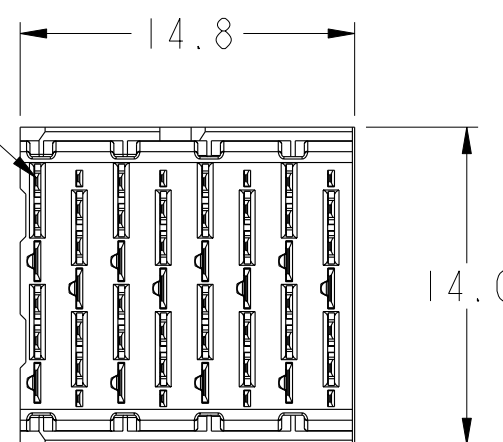
# OPEN (2-WALL) MODULE

SEE NOTE 8



SEE NOTE 5

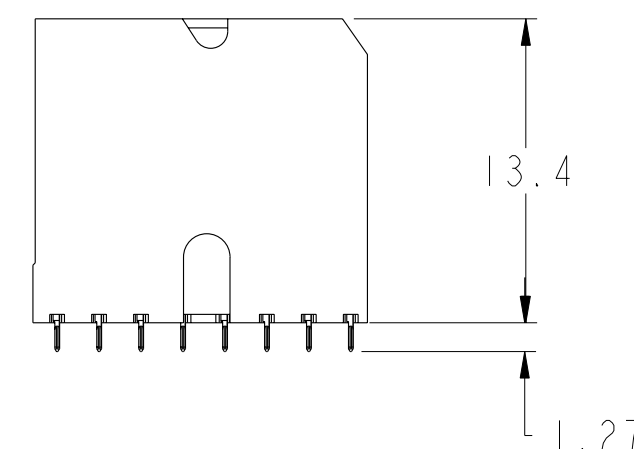
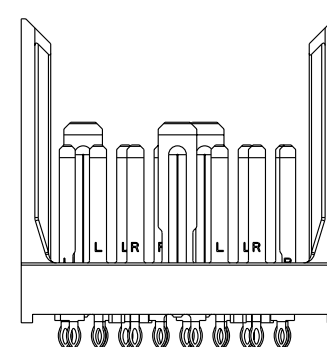
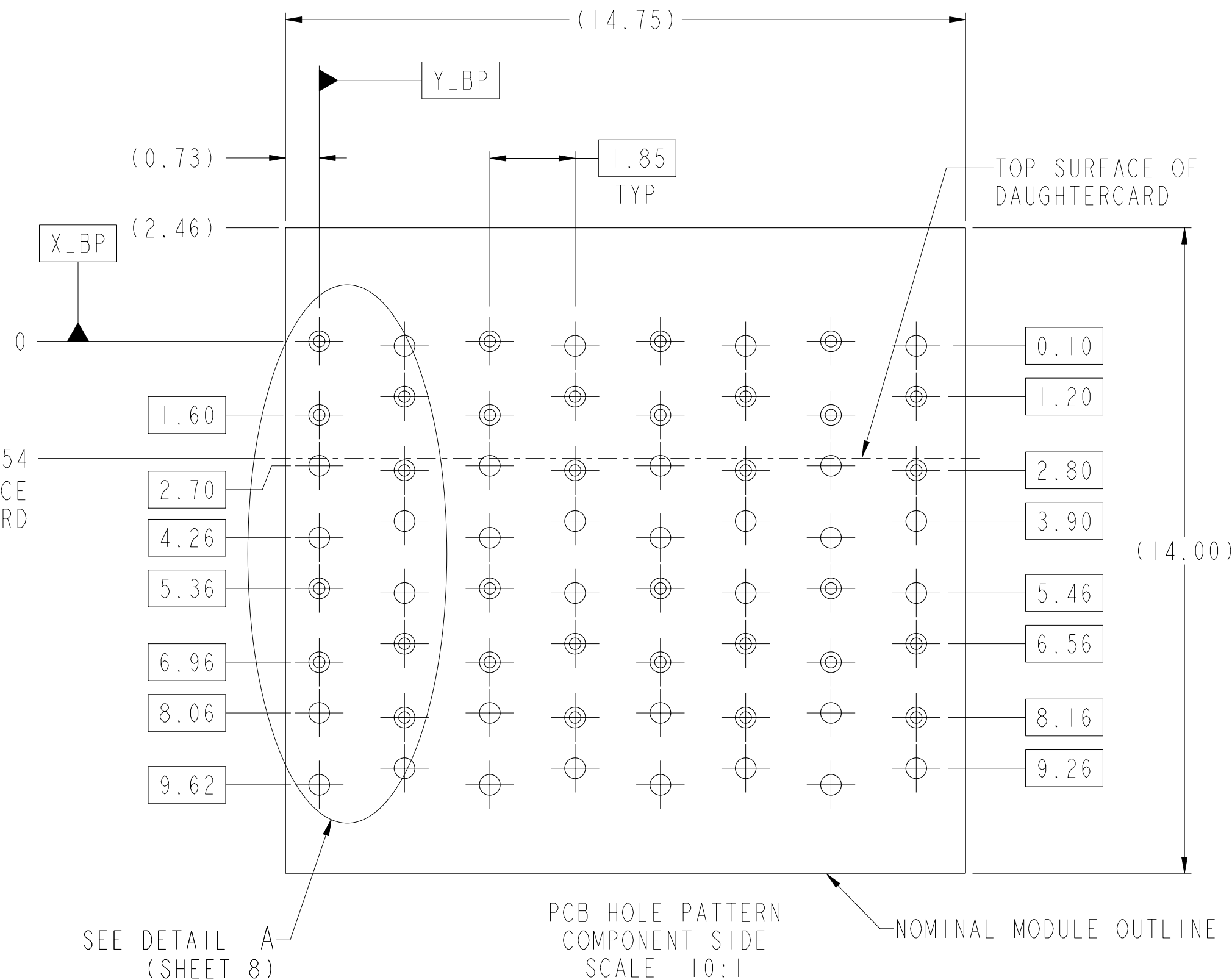
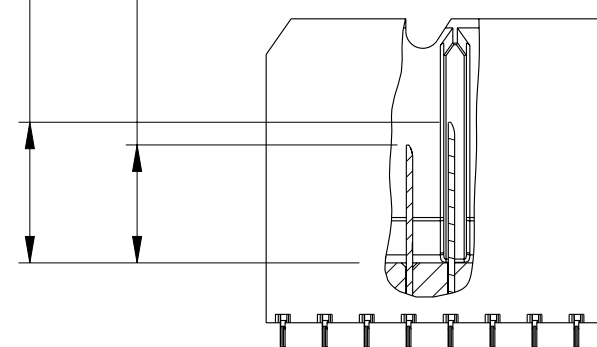
POSN A1



SCALE 3:1

- 6.2 (4mm WIPE WIDE GROUNDS)
- 5.2 (3mm WIPE WIDE GROUNDS)
- 5.2 (THIN END GROUNDS)
- 5.2 (3mm WIPE SIGNALS)
- 4.2 (2mm WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



PRELIMINARY

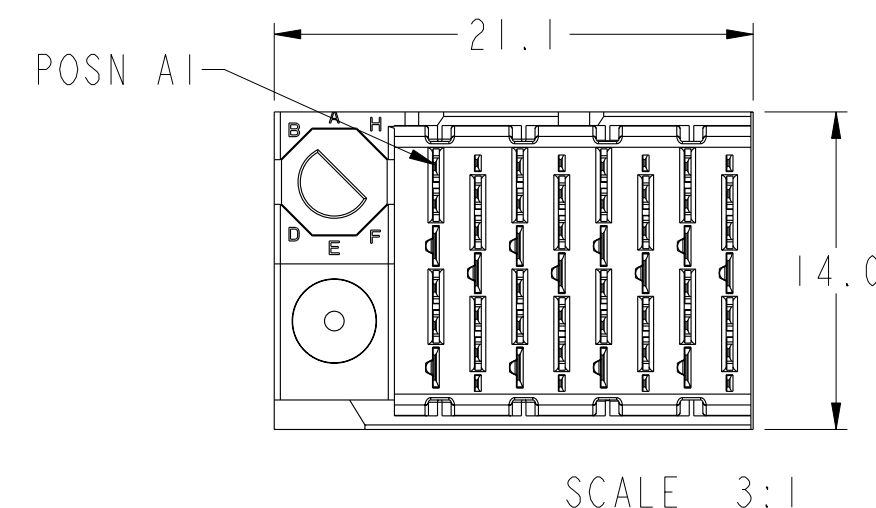
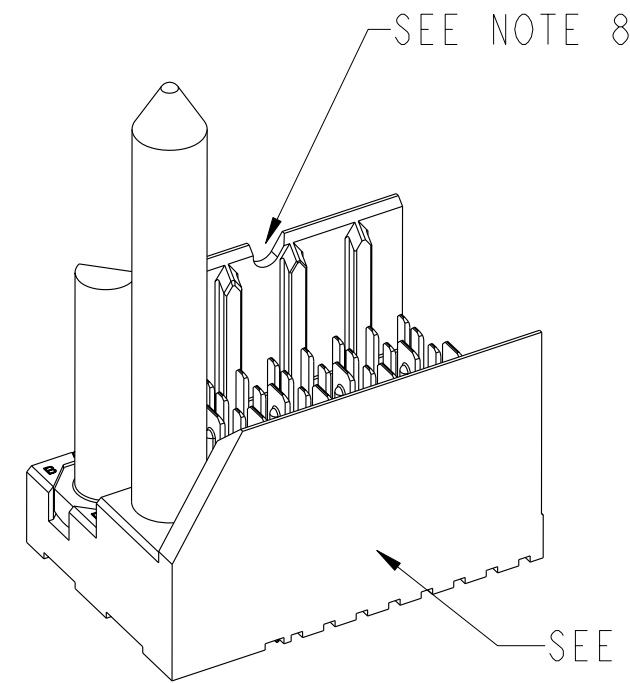


MODULE ASSEMBLY  
VERTICAL HEADER, 8-COLUMN, 2-PAIR  
SEE P/N TREE

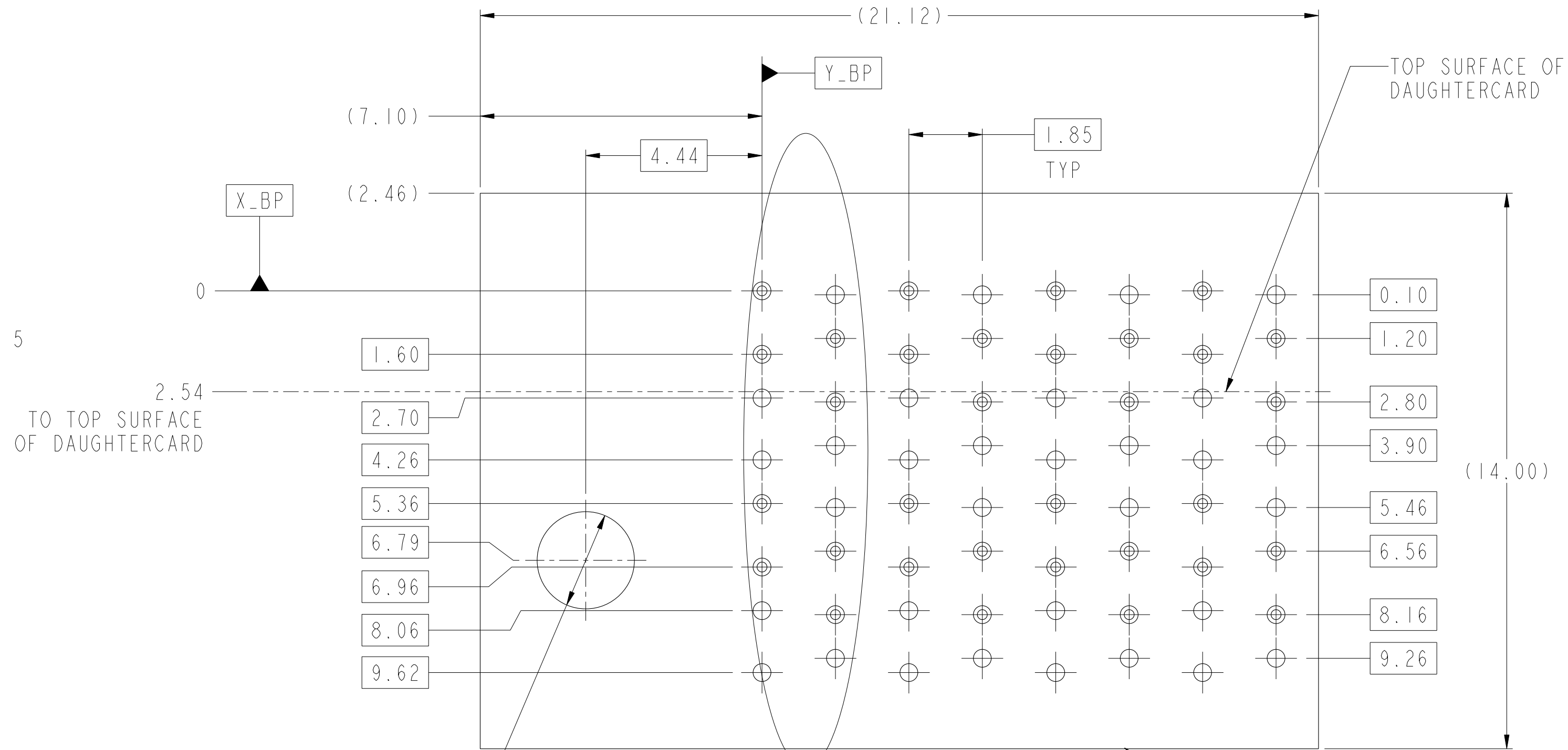
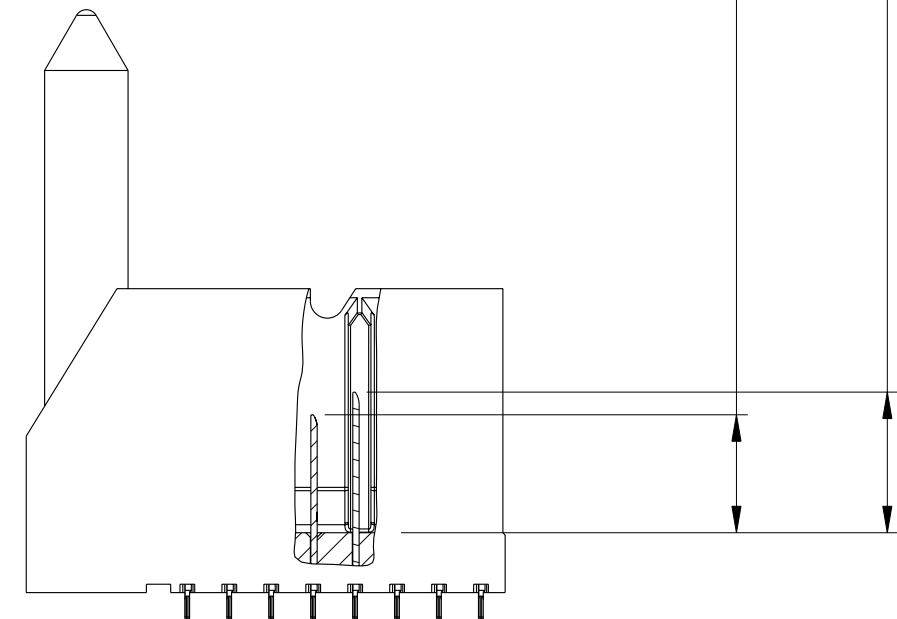
10113949  
CUSTOMER  
sheet 2 of 8

PDM: Rev:1 STATUS: In Work 8 Printed: Aug 16, 2010

LEFT POLARIZING/GUIDE MODULE

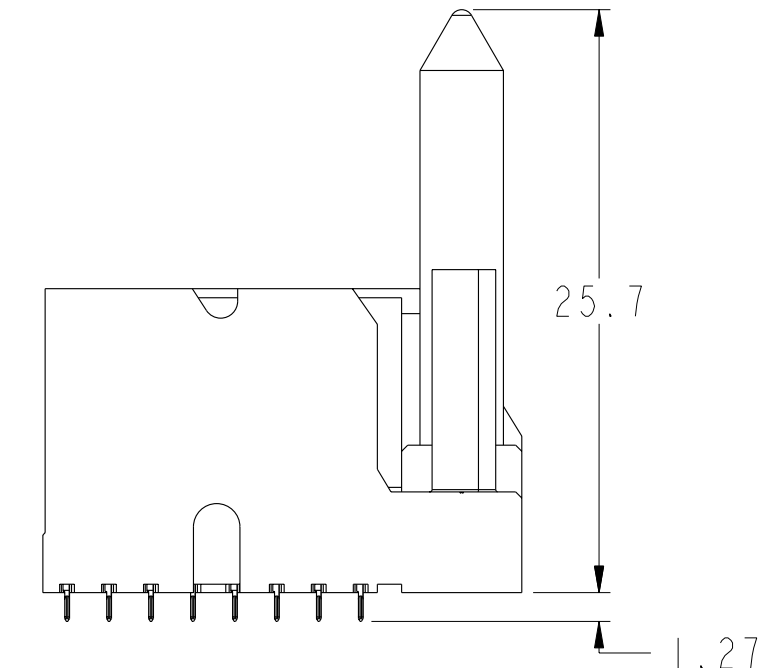
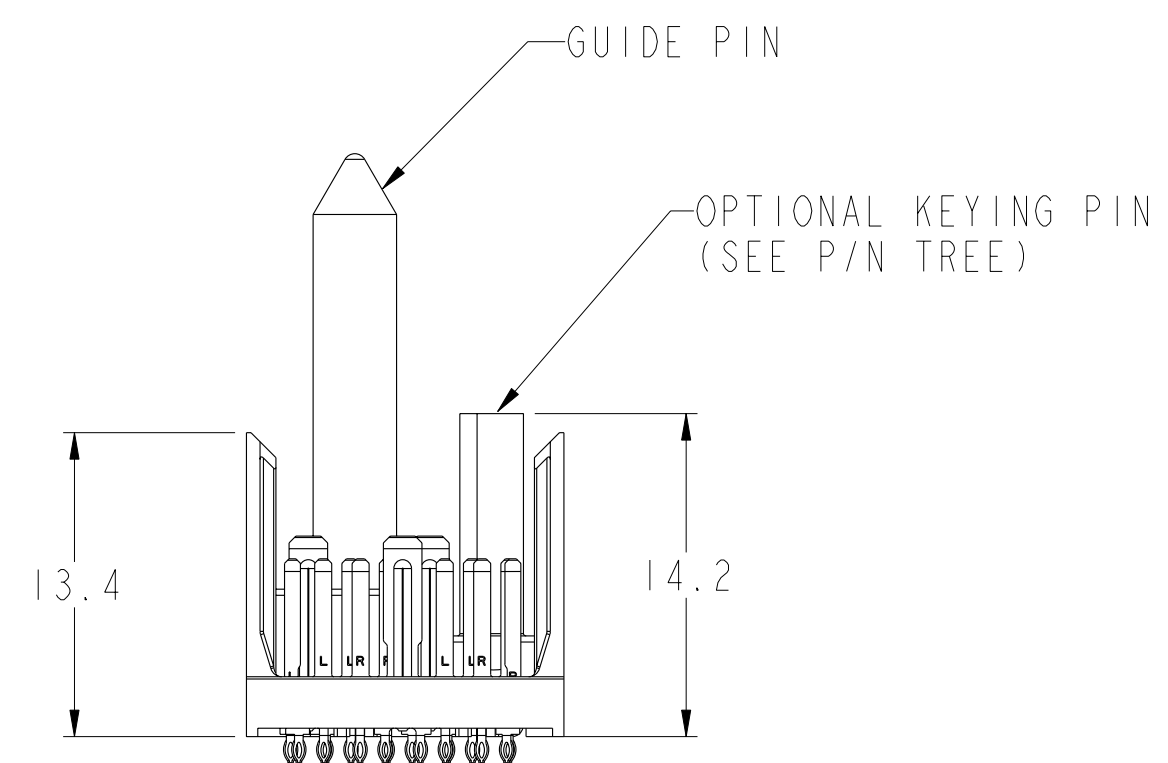


6.2 (4mm WIPE WIDE GROUNDS)  
5.2 (3mm WIPE WIDE GROUNDS)  
5.2 (THIN END GROUNDS)  
5.2 (3mm WIPE SIGNALS)  
4.2 (2mm WIPE SIGNALS)  
(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



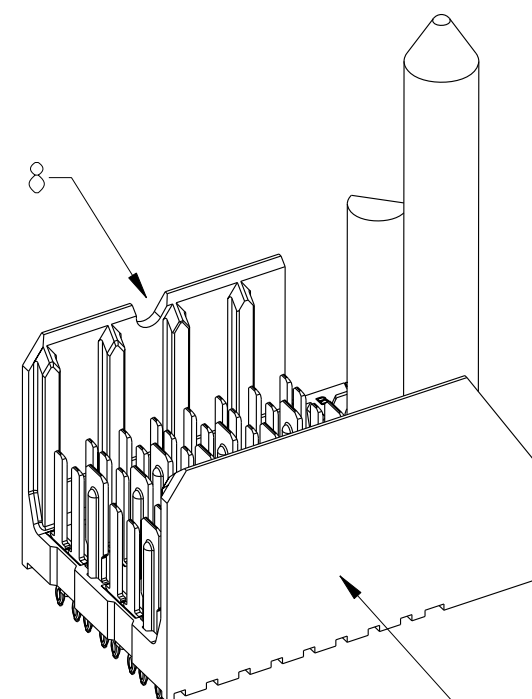
SEE NOTE 11 & TABLE 1

Ø 2.55	Ø 2.35
0.1	A Y_BP X_BP

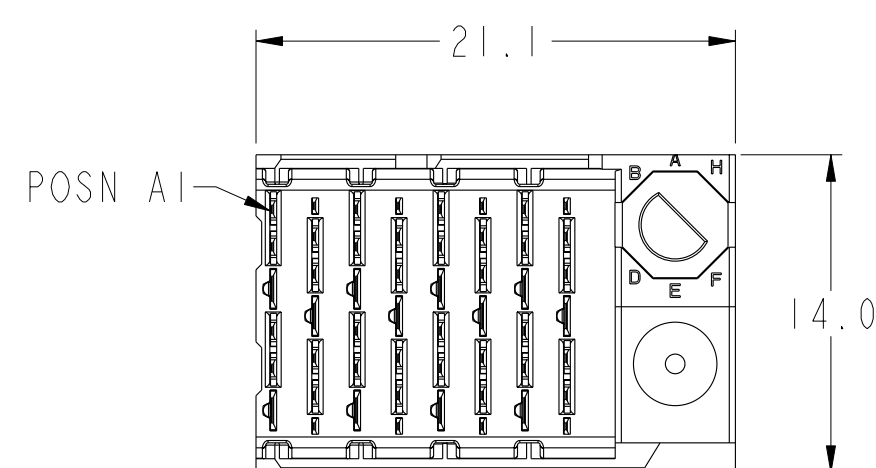


# RIGHT POLARIZING/GUIDE MODULE

SEE NOTE 8



SEE NOTE 5

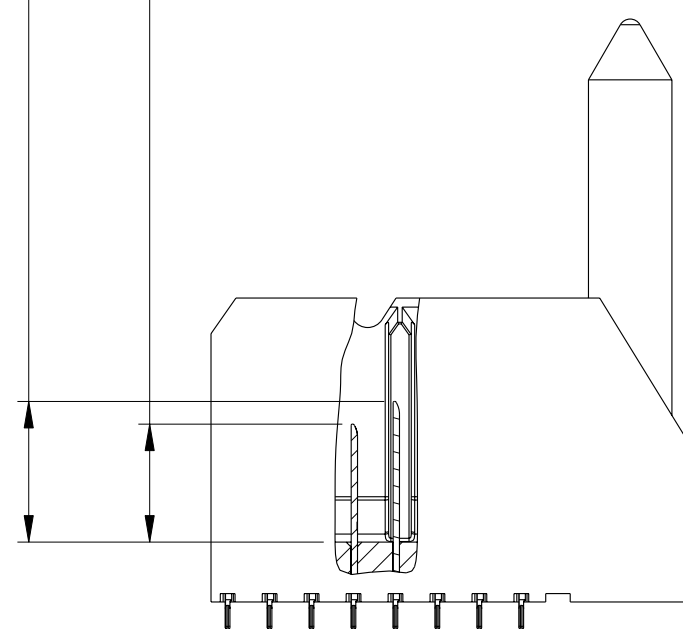


SCALE 3:1

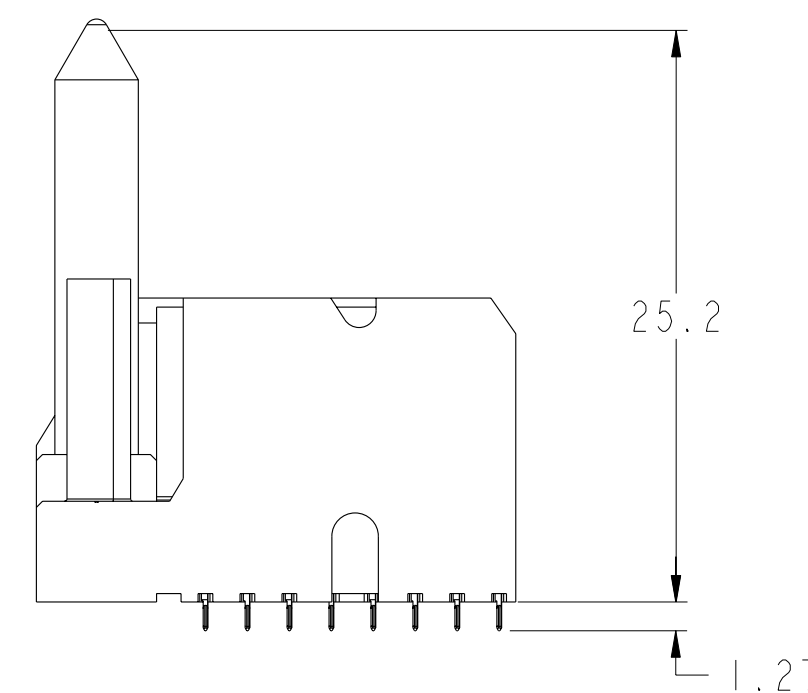
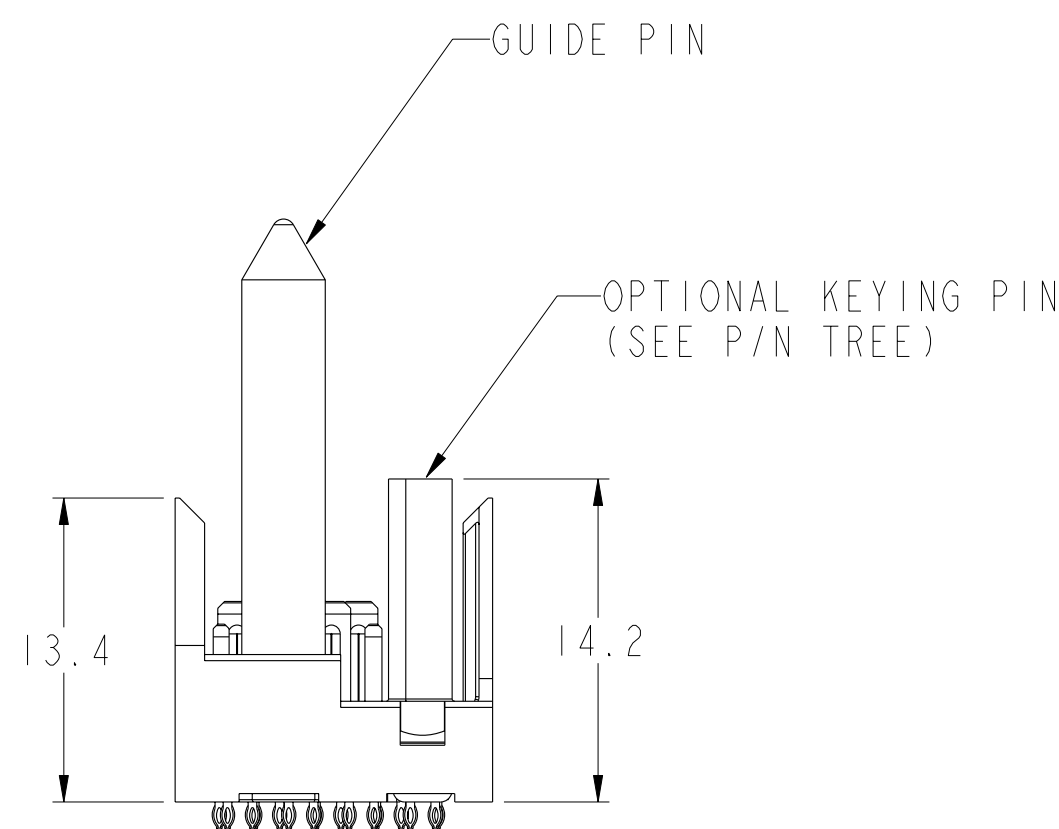
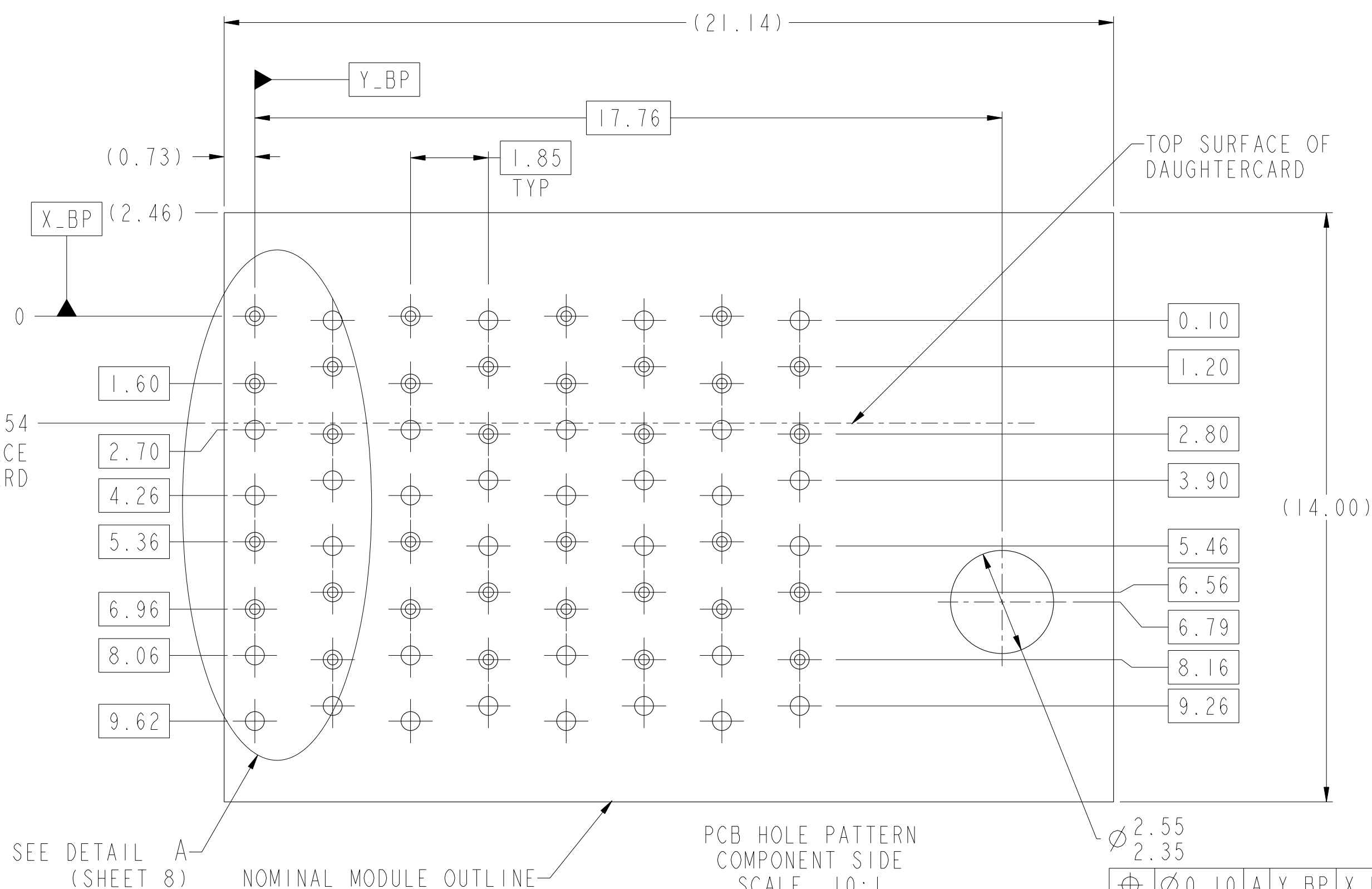
6.2 (4mm WIPE WIDE GROUNDS)  
5.2 (3mm WIPE WIDE GROUNDS)

5.2 (THIN END GROUNDS)  
5.2 (3mm WIPE SIGNALS)  
4.2 (2mm WIPE SIGNALS)

(SEE P/N TREE FOR  
ALL COMBINATIONS AVAILABLE)



SECTION CUST\_DWG1-CUST\_DWG1



PRELIMINARY

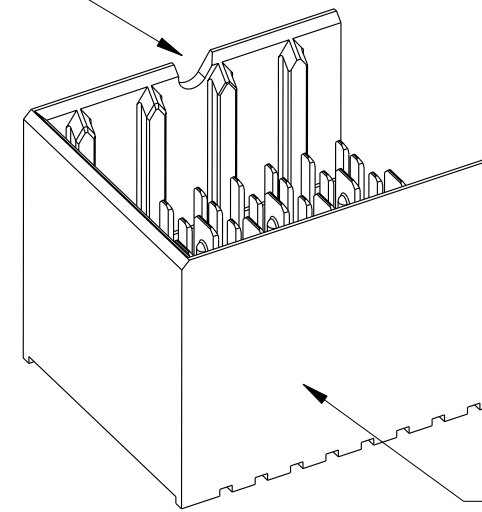


MODULE ASSEMBLY  
VERTICAL HEADER, 8-COLUMN, 2-PAIR  
SEE P/N TREE

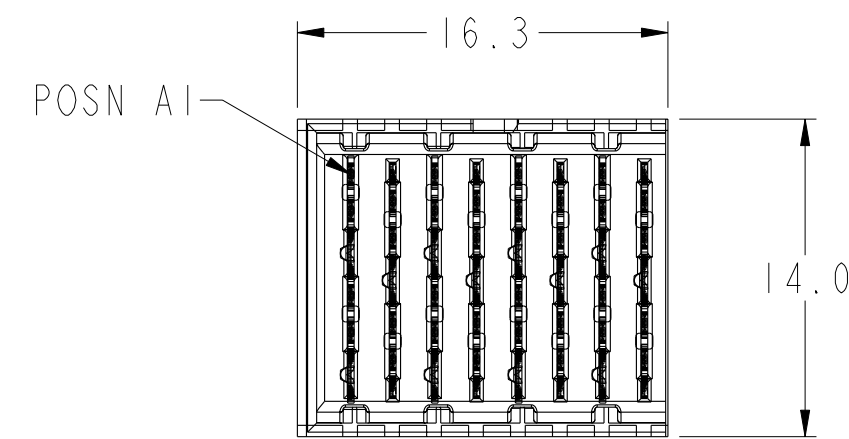
10113949  
CUSTOMER  
sheet 4 of 8

# LEFT WALL MODULE

SEE NOTE 8



SEE NOTE 5

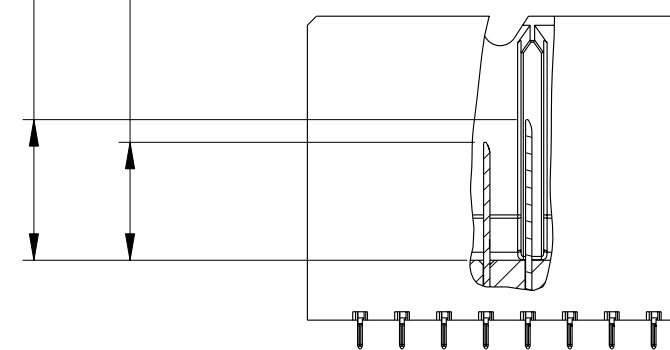


SCALE 3:1

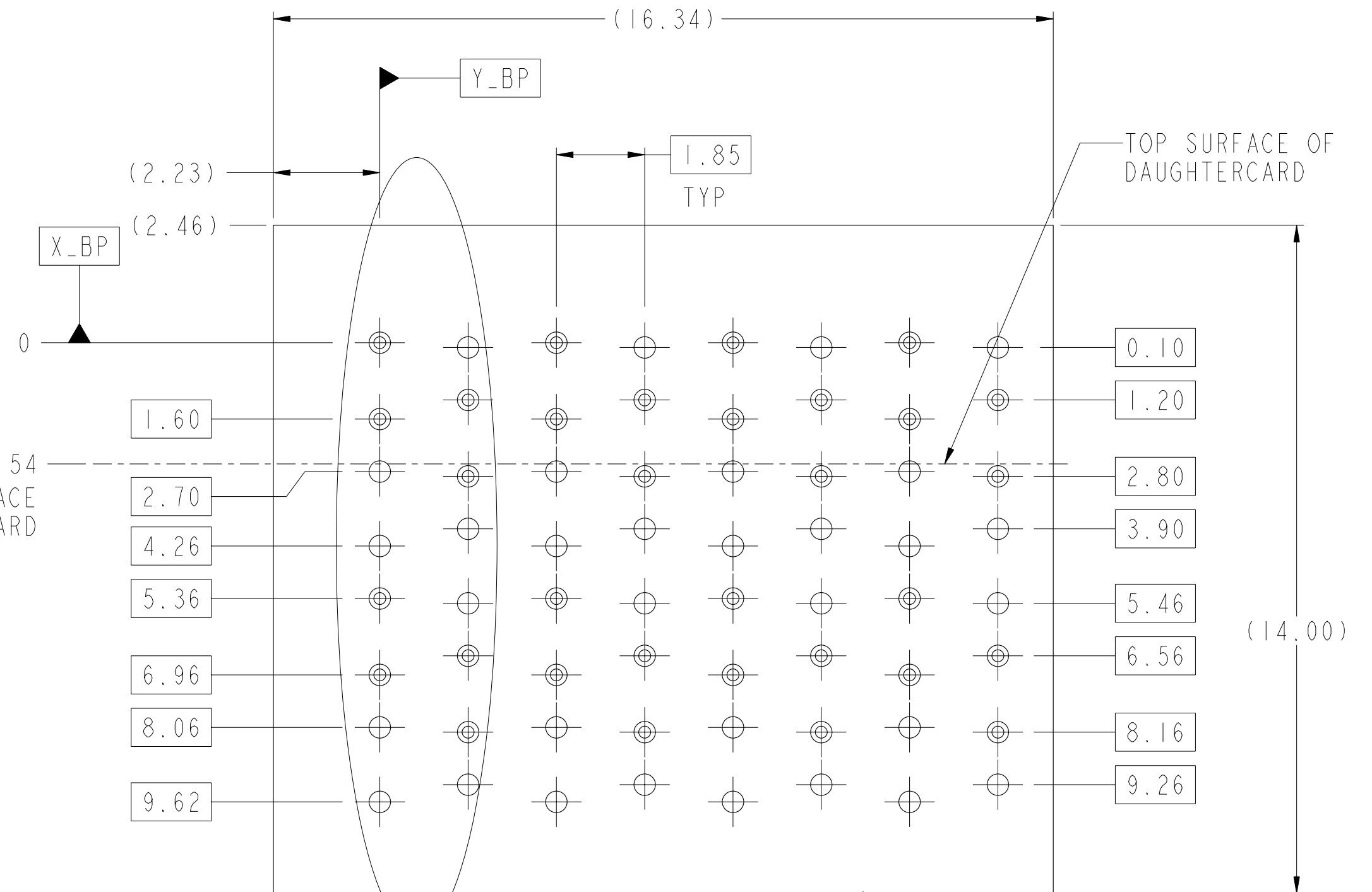
6.2 (4mm WIPE WIDE GROUNDS)  
5.2 (3mm WIPE WIDE GROUNDS)

5.2 (THIN END GROUNDS)  
5.2 (3mm WIPE SIGNALS)  
4.2 (2mm WIPE SIGNALS)

(SEE P/N TREE FOR  
ALL COMBINATIONS AVAILABLE)



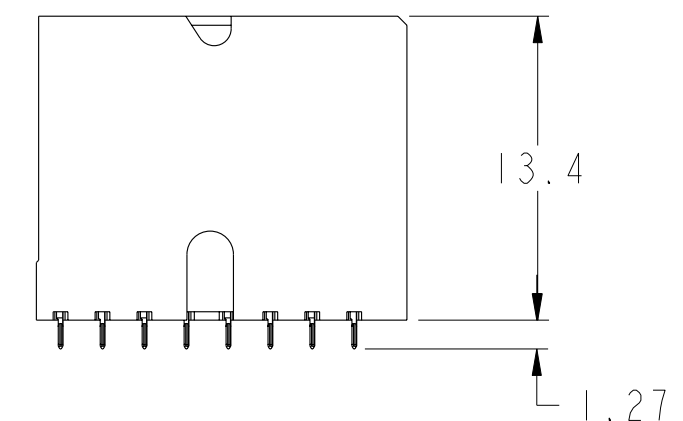
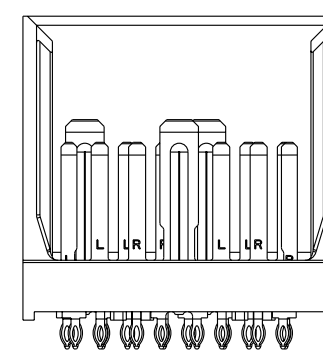
2.54  
TO TOP SURFACE  
OF DAUGHTERCARD



SEE DETAIL A  
(SHEET 8)

PCB HOLE PATTERN  
COMPONENT SIDE  
SCALE 10:1

NOMINAL MODULE OUTLINE



PRELIMINARY

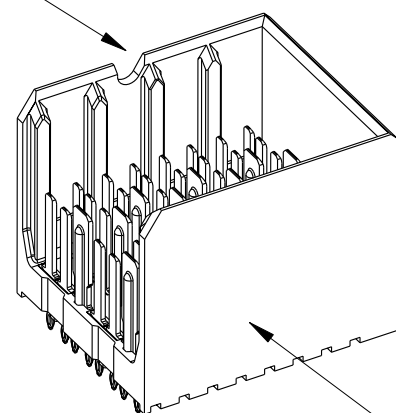


MODULE ASSEMBLY  
VERTICAL HEADER, 8-COLUMN, 2-PAIR  
SEE P/N TREE

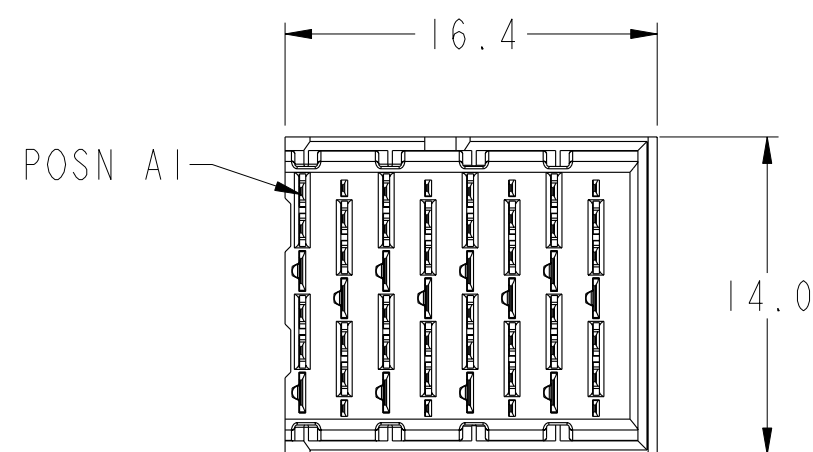
10113949  
CUSTOMER  
sheet 5 of 8

# RIGHT WALL MODULE

SEE NOTE 8



SEE NOTE 5

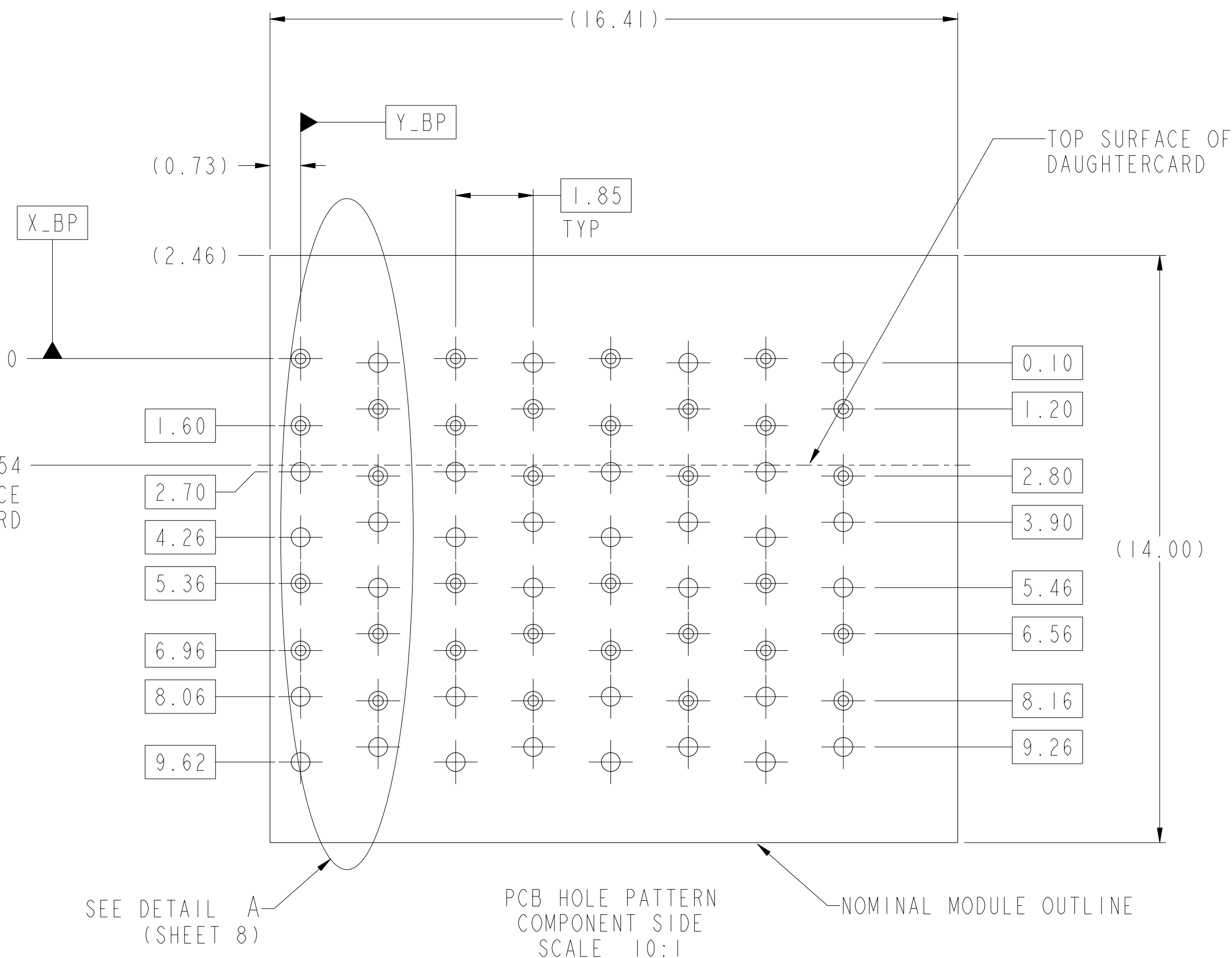
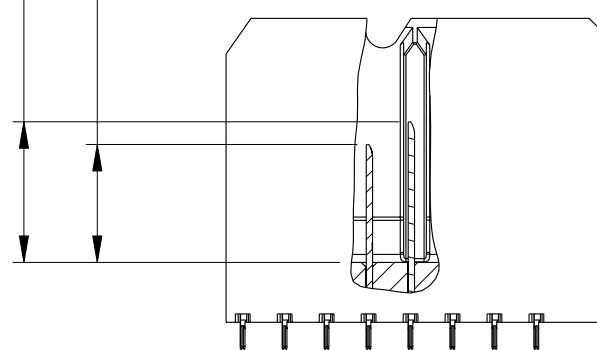


SCALE 3:1

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

5.200±0.050 (THIN END GROUNDS)  
5.2 (3mm WIPE SIGNALS)  
4.2 (2mm WIPE SIGNALS)

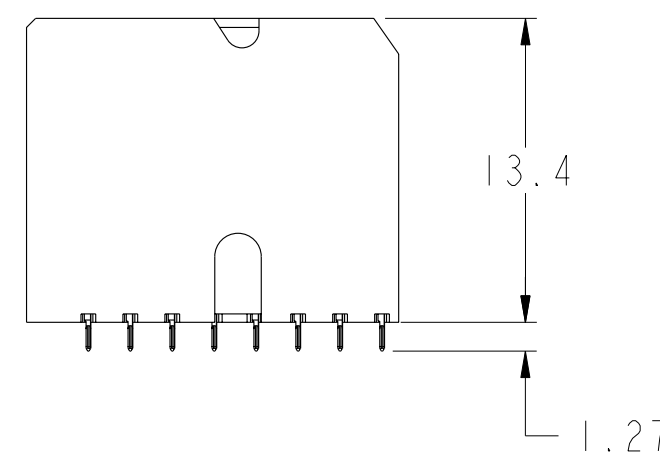
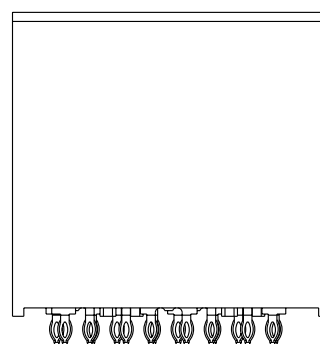
(SEE P/N TREE FOR  
ALL COMBINATIONS AVAILABLE)



SEE DETAIL A  
(SHEET 8)

PCB HOLE PATTERN  
COMPONENT SIDE  
SCALE 10:1

NOMINAL MODULE OUTLINE



PRELIMINARY



title MODULE ASSEMBLY  
VERTICAL HEADER, 8-COLUMN, 2-PAIR  
catalog no SEE P/N TREE

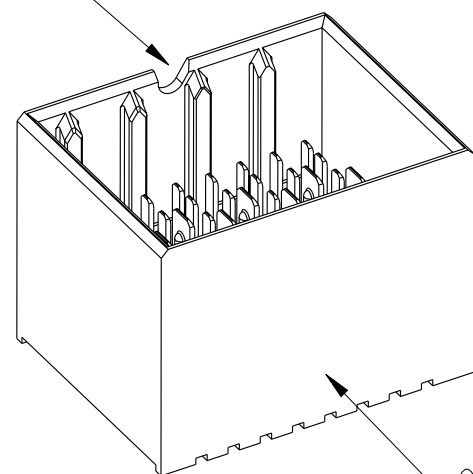
dwg no 10113949  
customer sheet 6 of 8

PDM: Rev:1 STATUS: In Work 8 Printed: Aug 16, 2010



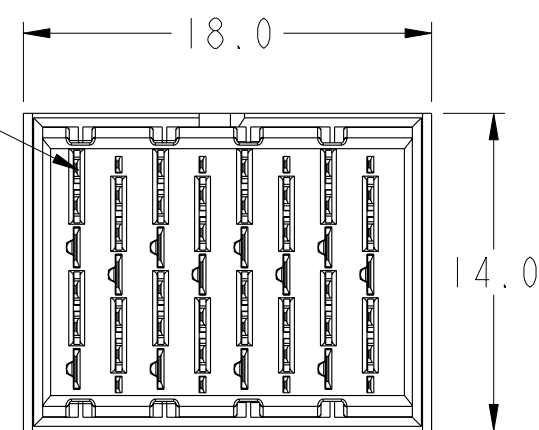
# FOUR WALL MODULE

SEE NOTE 8



SEE NOTE 5

POSN A1

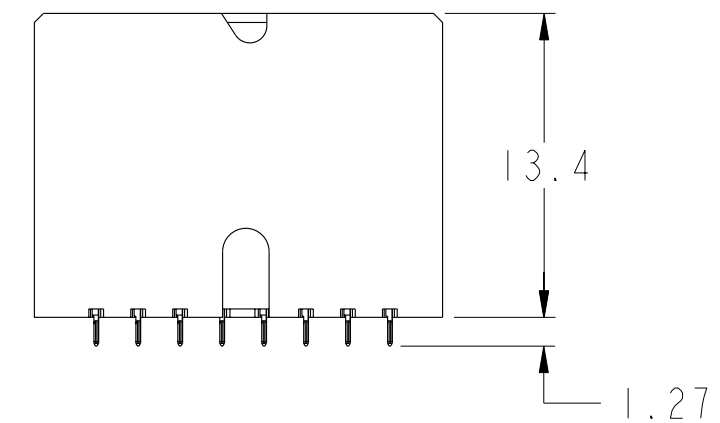
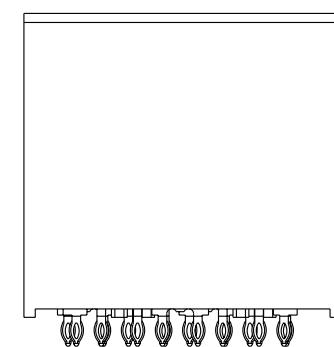
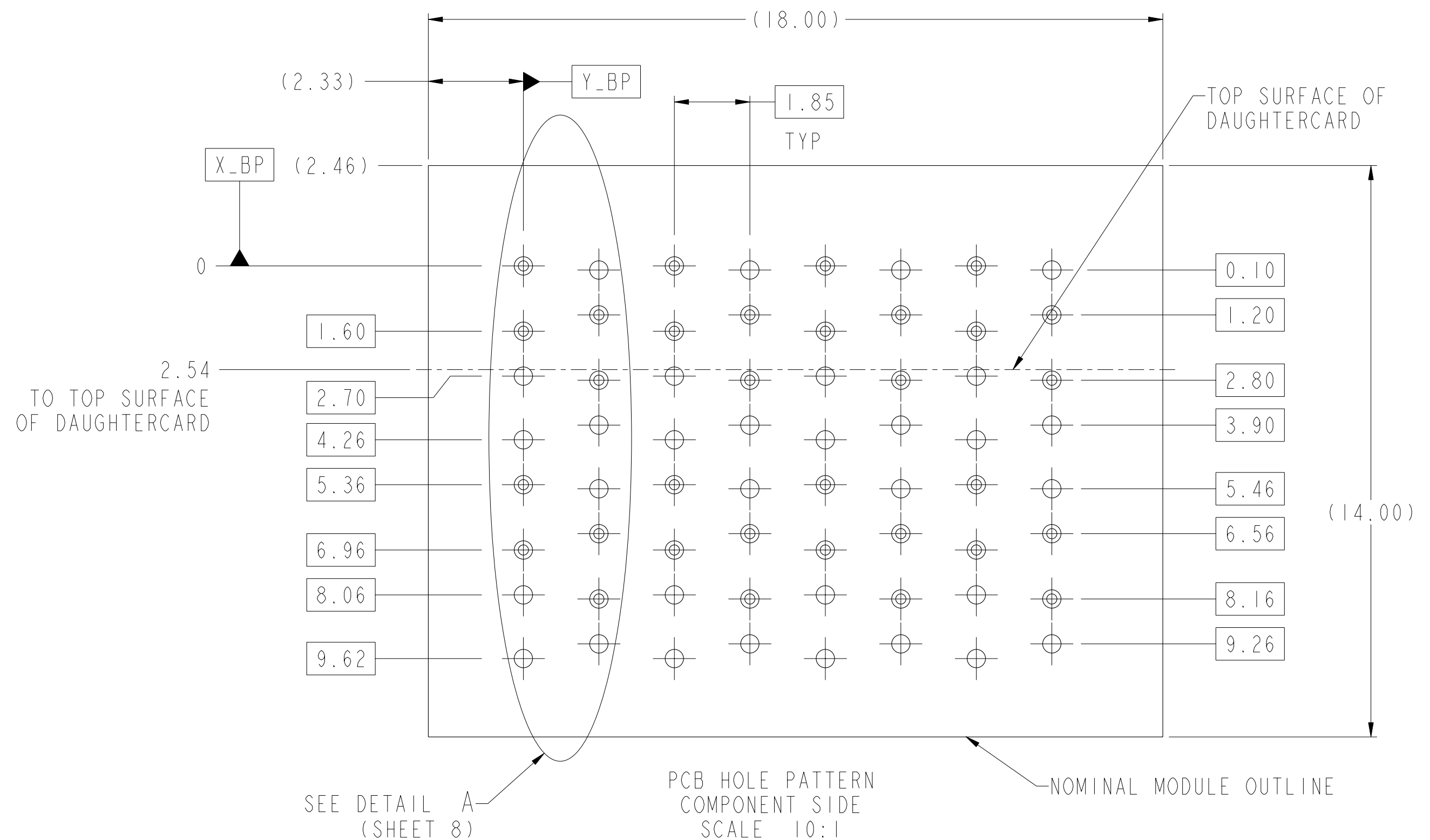
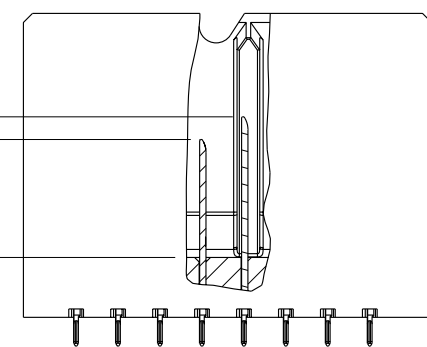


SCALE 3:1

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

5.2 (THIN END GROUNDS)  
5.2 (3mm WIPE SIGNALS)  
4.2 (2mm WIPE SIGNALS)

(SEE P/N TREE FOR  
ALL COMBINATIONS AVAILABLE)



PRELIMINARY

	title		MODULE ASSEMBLY		dwg no	10113949		Rev.	1
			VERTICAL HEADER, 8-COLUMN, 2-PAIR						
	catalog no		SEE P/N TREE			CUSTOMER		sheet 7 of 8	

NOTES:

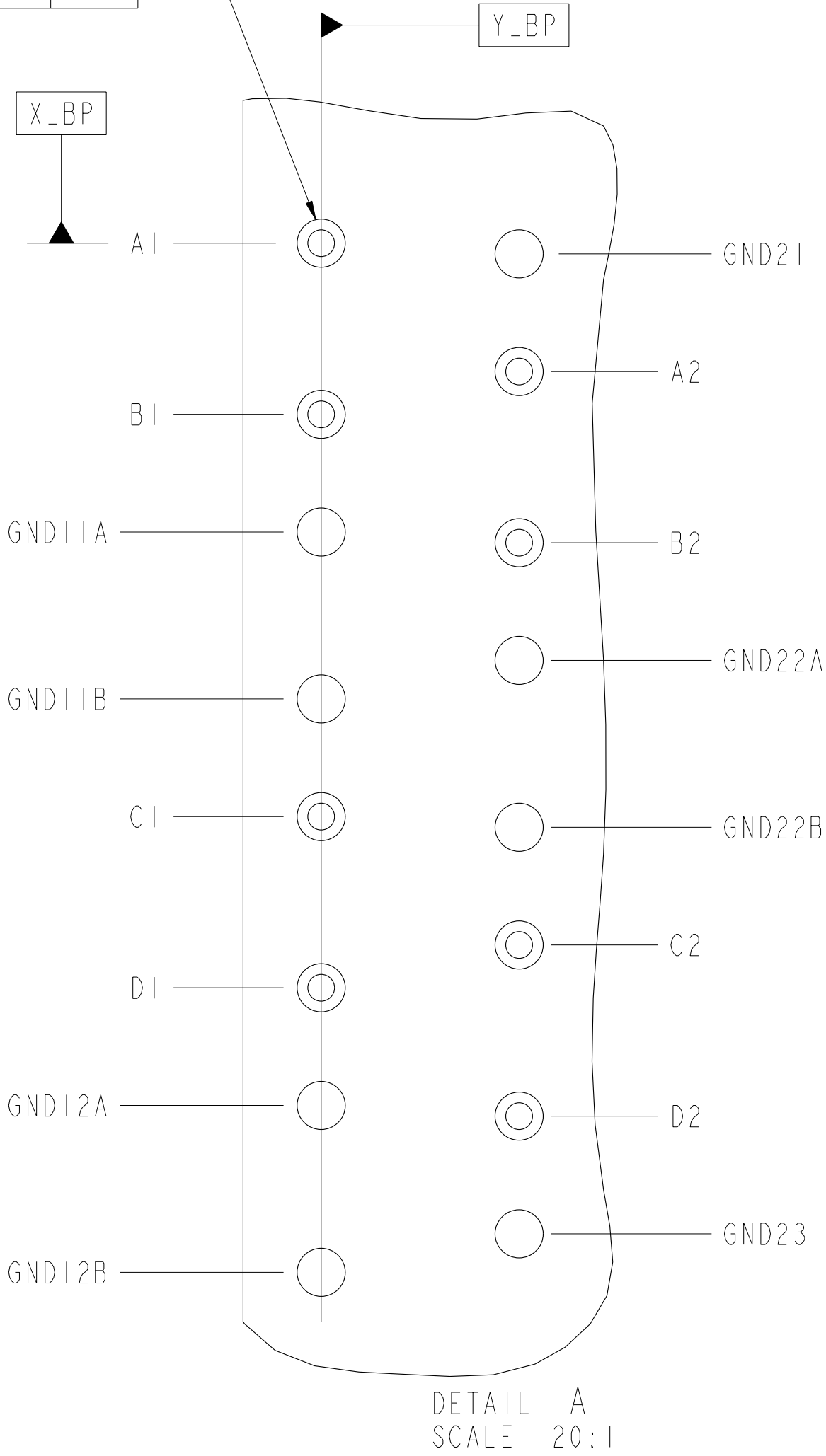
- CONNECTOR MATERIALS  
SHROUD: HIGH-TEMP THERMOPLASTIC, UL94V-0  
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
- CONTACT PLATING:  
  
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-588, INCLUDING TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST SEQUENCE.  
  
PRESS-FIT TAILS: TIN OVER NICKEL, OR TIN-LEAD ALLOY OVER NICKEL. SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588 (PRELIMINARY)
- APPLICATION SPECIFICATION: GS-20-121 (PRELIMINARY)
- 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.

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"]	Ø0.35±0.05	Ø0.75

REFER TABLE 3  
FOR PTH, DRILL & PAD SIZES

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



PRELIMINARY



title MODULE ASSEMBLY  
VERTICAL HEADER, 8-COLUMN, 2-PAIR  
catalog no SEE P/N TREE

dwg no 10113949  
customer sheet 8 of 8  
Rev. 1