

Excellent Integrated System Limited

Stocking Distributor

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[FCI](#)
[10115091-00E-10DLF](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

10115091 - X 0 E - X X X L F

8-COLUMN
DIFFERENTIAL
SIGNAL

LEAD-FREE DESIGNATION
ONLY WITH APPLICABLE
PLATING CODES

PLATING (SEE NOTE 6)		
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

NUMBER	GUIDE PIN STYLE (SEE NOTE 8)
0	STANDARD GUIDE PIN, MACHINED
1	STANDARD GUIDE PIN, ROLLED

MODULE DESCRIPTION	LETTER DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 6)	N	J	A	B	C	D	E	F	G	H	
	NO KEY GUIDE PIN										
RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 7)	Z	Y	P	Q	R	S	T	U	V	W	
	NO KEY GUIDE PIN										
OPEN MODULE (TWO WALL) (SEE SHEET 2)	0 (ZERO)										
LEFT WALL MODULE (SEE SHEET 3)	L										
RIGHT WALL MODULE (SEE SHEET 4)	M										
FOUR WALL MODULE (SEE SHEET 5)	I (ONE)										

NUMBER	CONTACT MATING SIGNAL	WIPE LENGTH	GROUND	COMPLIANT TAIL TYPE (SEE NOTE 9)
1	2 MM	4 MM		0.55 (0.0217") DRILL
2	3 MM	4 MM		0.55 (0.0217") DRILL
3	2 MM	4 MM		0.45 MICRO (0.0177") DRILL
4	3 MM	4 MM		0.45 MICRO (0.0177") DRILL
5	2 MM	3 MM		0.55 (0.0217") DRILL
6	3 MM	3 MM		0.55 (0.0217") DRILL
7	2 MM	3 MM		0.45 MICRO (0.0177") DRILL
8	3 MM	3 MM		0.45 MICRO (0.0177") DRILL

FOR CUSTOM-LOADED MODULES, SEE INDIVIDUAL CUSTOM DRAWINGS WITH THE DRAWING-NUMBER FORMAT OF 10115091-XXXX, WHERE "X" DENOTES MODULE TYPE PER CHART ON THIS SHEET "XXXX" IS A SEQUENTIAL NUMBER BEGINNING WITH "0001".

TABLE 1 (SEE NOTE 11)		
	UNGROUND	GROUND
FHS	Ø 2.35-Ø 2.55	Ø 2.35-Ø 2.55
PAD	N/A	Ø 5.50
PLATED	NO	YES
DRILL(mm)	2.44mm	2.58mm
DRILL(in)	0.096"	0.1015"

TABLE 2 (SEE NOTE 12)		
SCREW P/N	DESCRIPTION	BOARD THICKNESS
10091790-002LF	#2-56 X 0.375" LG. PHILIPS PANHEAD W/SO CONICAL WASHER	1.60-5.00mm
10091790-003LF	#2-56 X 0.375" LG. PHILIPS PANHEAD W/SO CONICAL WASHER	5.00-10.00mm

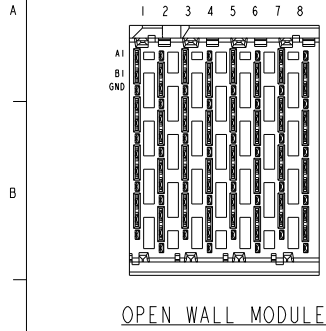
TOLERANCE UNLESS OTHERWISE SPECIFIED	
surface	linear
ISO 406	0.1 ±0.3
ISO 1101	0.1 ±0.10
ISO 1302	0.1 ±0.05
	angular
	0° ±2°

dr	Customer Cn	00000000	projection	mm	size	A2	scale	1:1
eng	Engineering	00000000			acc no			
chr					rel level	Released		
appr	Approving	00000000	product family					
Amphenol FCI		MODULE ASSEMBLY, XCEDE HD		10115091		rev E		
www.fci.com		Vertical Header, 4 Pair 8 Column		Product		Customer Drw		
col. no.		-		Product		Customer Drw		

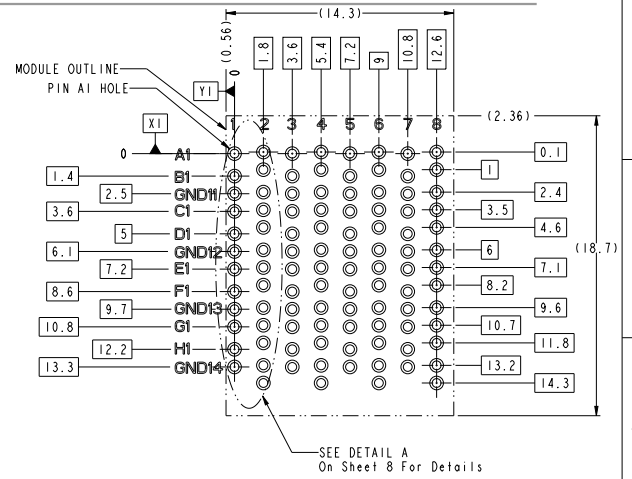
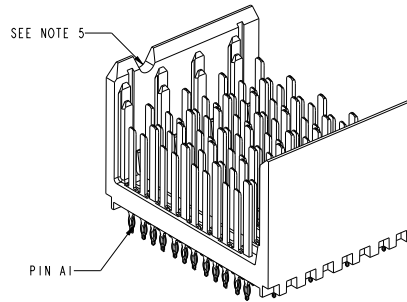
PDS: Rev E

STATUS: Released

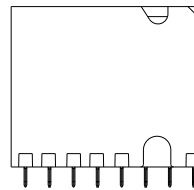
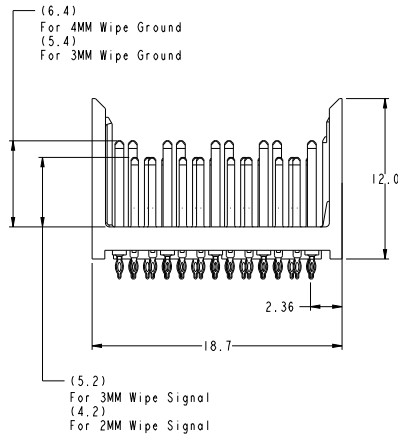
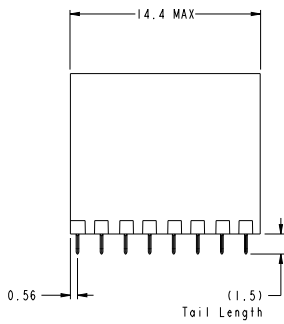
Printed: Mar 17, 2016



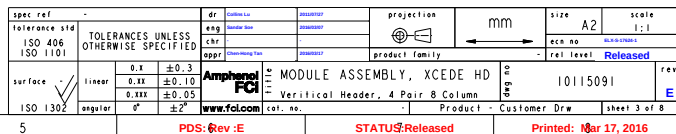
OPEN WALL MODULE

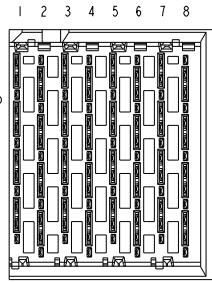


BP HOLE PATTERN COMPONENT SIDE
OPEN WALL MODULE BACKPLANE FOOTPRINT

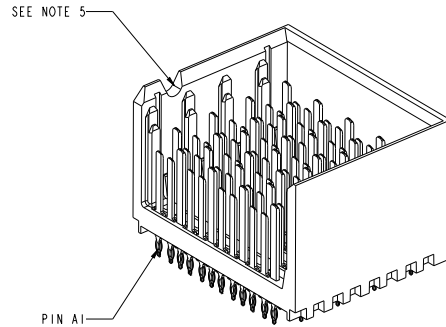


spec. ref.		-		dr	00000000	projection	mm	size	A2	scale	1:1						
tolerance std		ISO 406 ISO 1101		eng	00000000	chr	00000000	acc. no.	00000000	rel. level	Released						
TOLERANCES UNLESS OTHERWISE SPECIFIED																	
surface		linear	0.1 0.2X 0.1X	±0.3 ±0.10 ±0.05	Amphenol FCI MODULE ASSEMBLY, XCEDE Hd Verifical Header, 4 Pair 8 Column www.fci.com												
ISO 1302		angular	0°	±2													
5		PDS: 6 rev :E										STATUS: Released			Printed: 10 Mar 17, 2016		



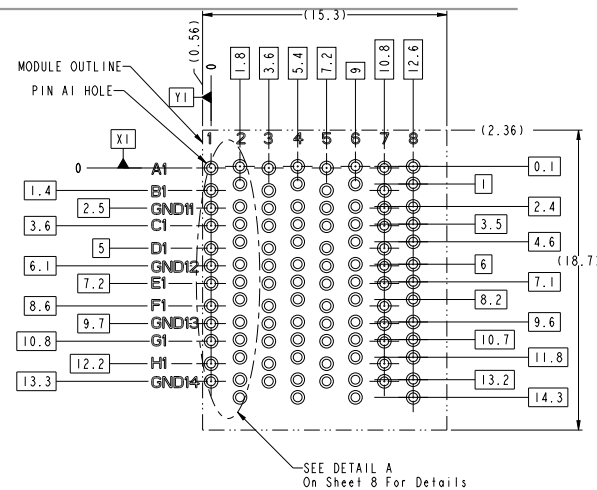
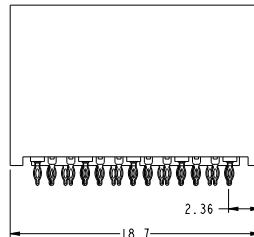
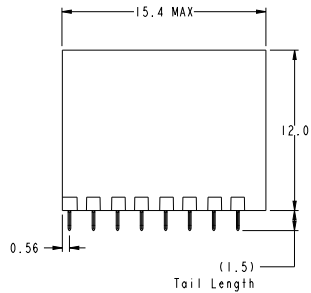
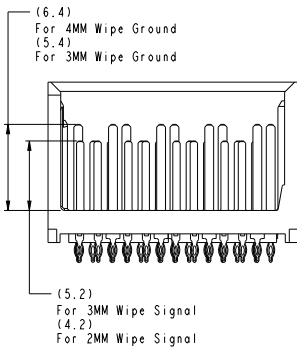


RIGHT WALL MODULE



PIN AI

SEE NOTE 5



BP HOLE PATTERN COMPONENT SIDE

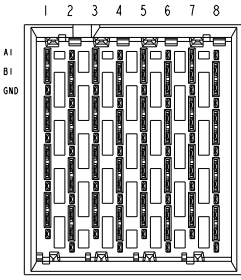
RIGHT WALL MODULE BACKPLANE FOOTPRINT

spec. ref.	-	dr.	00000001	projection	mm	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	00000001	product family	-	acc. no.	-	rel. level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED									
surface	linear	0.X	±0.3	Amphenol FCI	MODULE ASSEMBLY, XCEDE HD Vertical Header, 4 Pair 8 Column	10115091	rev	E	sheet 4 of 6
	linear	0.XX	±0.10						
	angular	0.XXX	±0.05						
ISO 1302	angular	0°	±2°	www.fci.com	col. no.	Product	Customer Drw	Printed: 10 Mar 17, 2016	

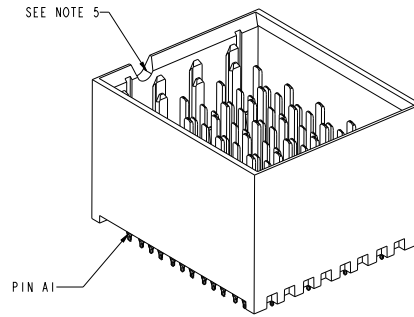
PDS: Rev : E

STATUS: Released

Printed: 10 Mar 17, 2016

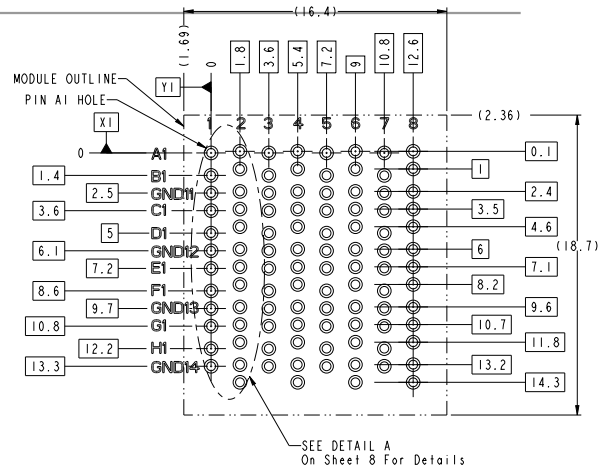


△ FOUR WALL MODULE



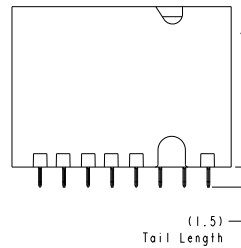
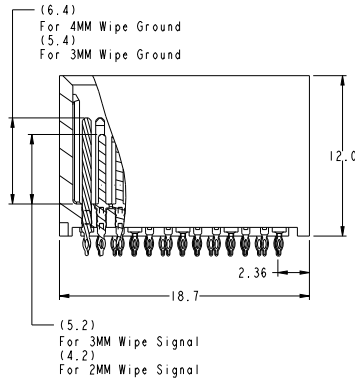
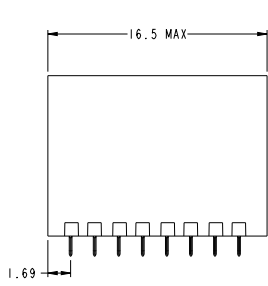
SEE NOTE 5

PIN A1



BP HOLE PATTERN COMPONENT SIDE

△ FOUR WALL MODULE BACKPLANE FOOTPRINT



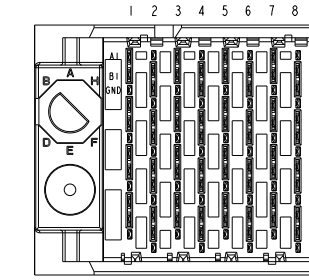
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tolerance std	ISO 406	eng	04080101	chr	04080101	acc. no.	04080101	rel. level	Released
ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	04080101	product family	-	rev	10115091	rev	E
surface	linear	0.1	±0.3	Amphenol FCI	MODULE ASSEMBLY, XCEDE HD	deg	0	Product	Customer Drw
ISO 1302	angular	0.1X	±0.10	www.fci.com	Vertical Header, 4 Pair 8 Column	deg	0	Product	Customer Drw
		0.1X	±0.05					Product	Customer Drw
		0°	±2°					Product	Customer Drw

PDS: Rev E

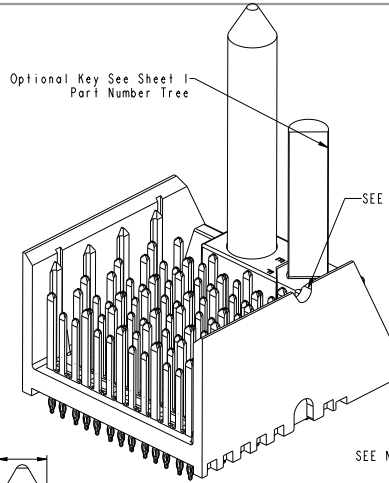
STATUS: Released

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Amphenol FCI
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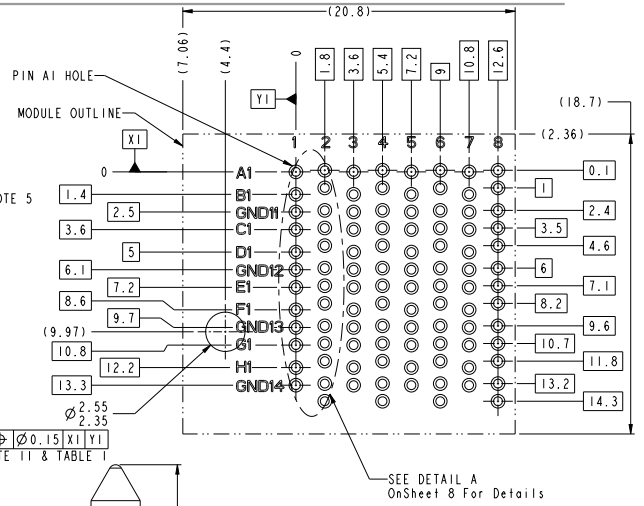
LEFT POLARIZING/GUIDE MODULE



Optional Key See Sheet 1
Part Number Tree

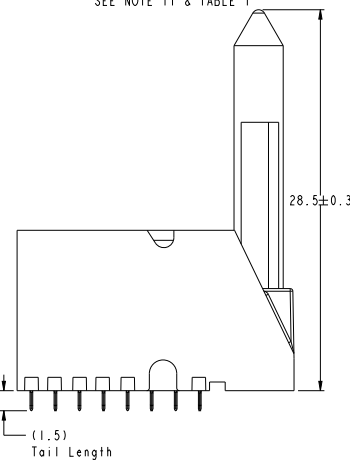
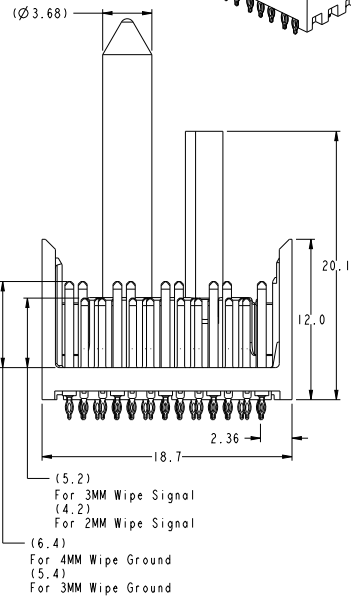
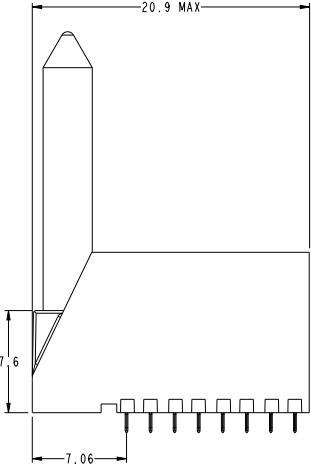
SEE NOTE 5

SEE NOTE 11 & TABLE 1



BP HOLE PATTERN COMPONENT SIDE

LEFT POLARIZING GUIDE MODULE
BACKPLANE FOOTPRINT

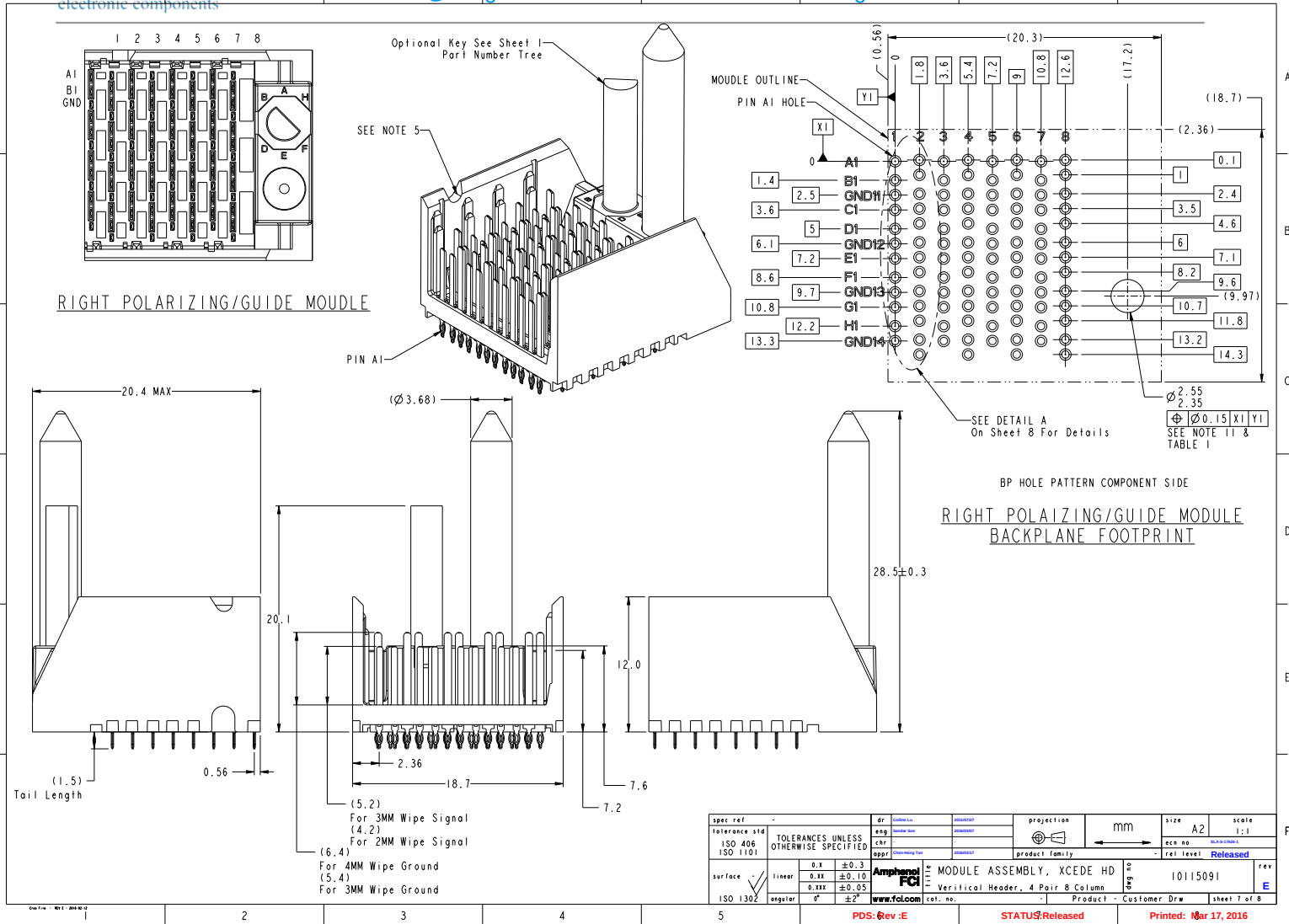


spec. ref.	-	dr.	00000001	projection	mm	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	00000001	chr	00000001	acc. no.	00000001	rel. level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED									
surface	linear	0.1	±0.3	Amphenol FCI	MODULE ASSEMBLY, XCEDE HD Vertical Header, 4 Pair 8 Column	10115091	rev	E	sheet 6 of 6
	0.2X	±0.10	±0.05						
	0.25X	±0.05	±0.05						
ISO 1302	angular	0°	±2°	www.fci.com	col. no.	Product	Customer Drw	Printed: Mar 17, 2016	

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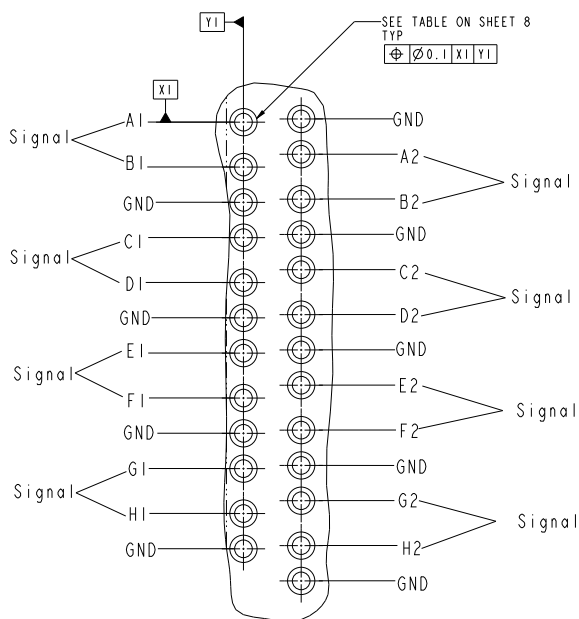
DETAIL A
SCALE 12:1

TABLE 3		
	COMPLIANT PIN DRILL $\varnothing 0.55 [0.0217"]$	COMPLIANT PIN DRILL $\varnothing 0.45 [0.0177"]$
PTH	$\varnothing 0.45 \pm 0.05$	$\varnothing 0.36 \pm 0.05$
DRILL	$\varnothing 0.55 [0.0217"]$	$\varnothing 0.45 [0.0177"]$
PAD	$\varnothing 0.85$	$\varnothing 0.75$

NOTES:

- CONNECTOR MATERIALS
SHROUD : HIGH-TEMP POLYMER, COLOR : BLACK, UL94V-0
CONTACTS : HIGH PERFORMANCE COPPER ALLOY
- PRODUCT SPECIFICATION : GS-12-0936
- APPLICATION SPECIFICATION : GS-20-0348
- PRODUCT MARKING :
PART NUMBER (10115091-X0E-XXXLF)
"FCI" AND DATE CODE (FCI P#####)
- NOTCH DESIGNATES "ROW A" SIDE OF CONNECTOR. NOTCH FEATURE ON OPPOSITE FOR PRODUCT MARKING.
- PLATING THICKNESS OF SIGNAL & GROUND CONTACT ARE DETERMINED BY PLATING CODE, REFER TO P/N TREE ON SHEET 1.
- PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.
- GUIDE-PIN STYLE DESIGNATION ONLY APPLIES TO MODULE VERSIONS THAT REQUIRE GUIDE-PIN HARDWARE. FOR ALL NON-GUIDE-PIN VERSIONS, THE DEFAULT DASH-NUMBER DIGIT IN THAT LOCATION IS STILL "0".
- SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PIN SELECTION, ETC.
- A Δ SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.
- OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 SHEET 1 FOR ADDITIONAL DETAILS.
- SCREW IS OPTIONAL AND ENGAGES WITH BOTTOM OF GUIDE PIN FROM BENEATH THE PCB FOR ADDITIONAL GUIDE-PIN SUPPORT.

spec. ref.	-	dr.	00000000	projection	mm	size	A2	scale	1:1
tolerance std.	ISO 406 ISO 1101	eng.	00000000	chr.	00000000	acc. no.	00000000	rel. level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		appr.	00000000	product family	MODULE ASSEMBLY, XCEDE HD Vertical Header, 4 Pair 8 Column				
surface	linear	0.1 ± 0.3 0.2X ± 0.10 0.3X ± 0.05	Amphenol FCI	www.fci.com	cat. no.	10115091	rev	E	
ISO 1302	angular	0° ± 2	Product - Customer Drw						

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