

10104999 - X 0 E - X 0 X L F

8-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	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/SO CONICAL WASHER	1.60 - 5.00
10091790-003LF	#2-56 X .500" PHILLIPS PANHEAD W/SO CONICAL WASHER	5.00 - 10.00

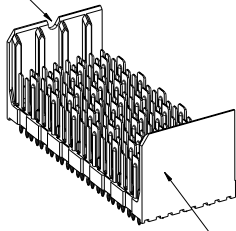
spec ref	SEE NOTES	dr	S MANI	2009-09-05	projection	MM	size	A2	scale	3:1	
tolerance std	ASME Y14.5	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecm no		rel level	Released
surface	linear	appr	C.H. TAN	2011-05-16	product family			rev	10104999	rev	A
ASME Y14.5	angular	www.fcj.com	cat. no.	SEE PIN TREE	Product	Customer Drw	Product	Customer Drw	Product	Customer Drw	sheet 1 of 6

PDS: Rev :A STATUS: Released Printed: May 20, 2011

Copyright FCJ

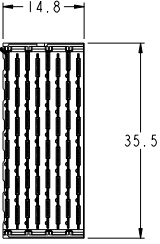
OPEN (2-WALL) MODULE

SEE NOTE 8

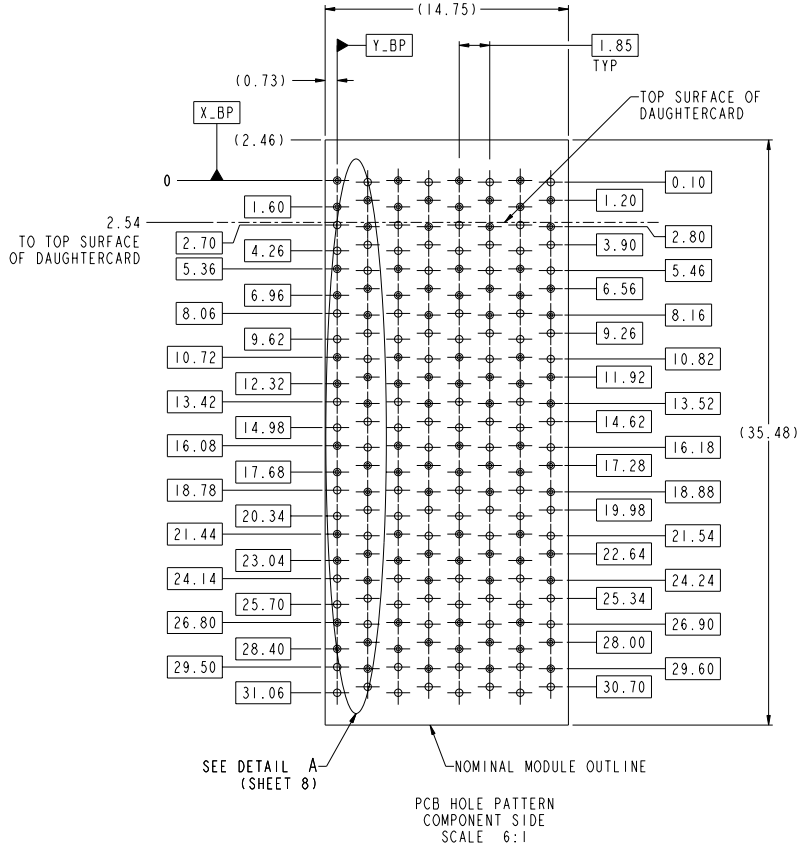
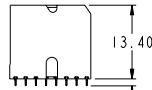
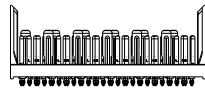
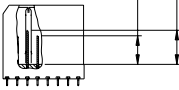


SEE NOTE 5

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)

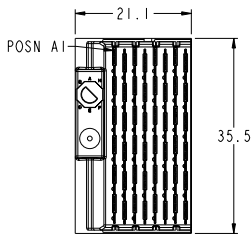
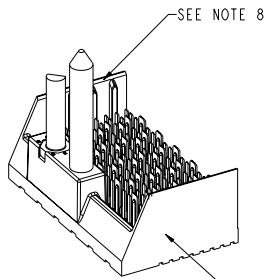
NOMINAL MODULE OUTLINE
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES	dr	S MANI	2009-09-05	projection	MM	size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecn no		rel level	Released
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family						
surface	linear	0.1	±0.2								
		0.2X	±0.10								
ASME Y14.5	angular	0.2XX	±0.050								
		0°	±°								

FCJ
MODULE ASSEMBLY
VERTICAL HEADER, 8 COLUMN, 6-PAIR
SEE P/N TREE
Product: Customer Draw
10104999
rev A
sheet 2 of 6
Printed: May 20, 2011

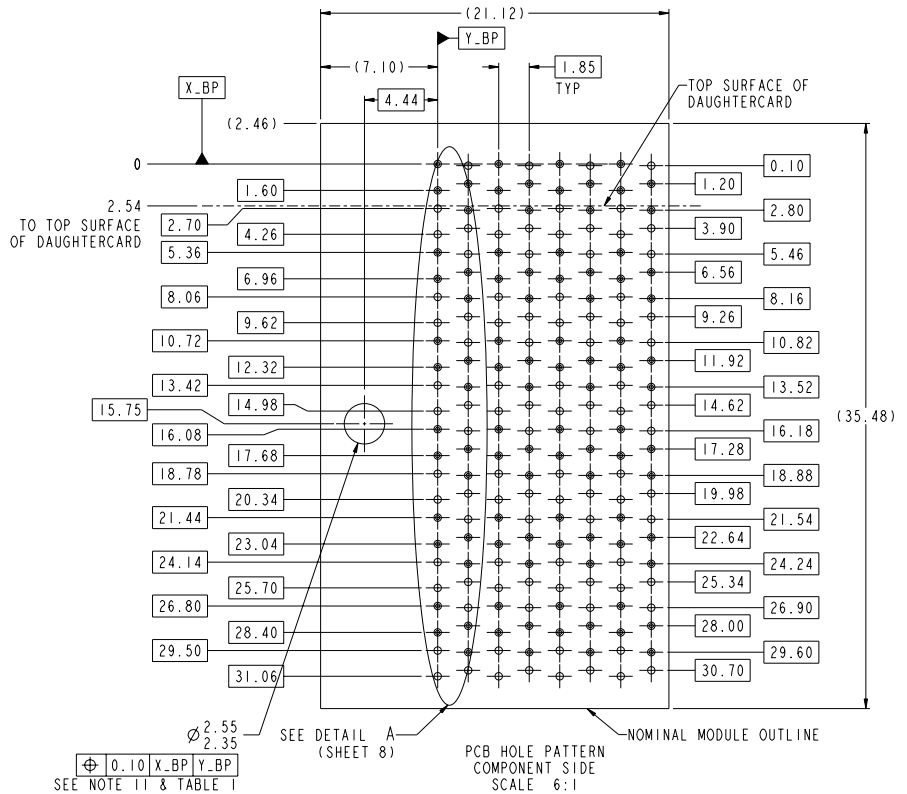
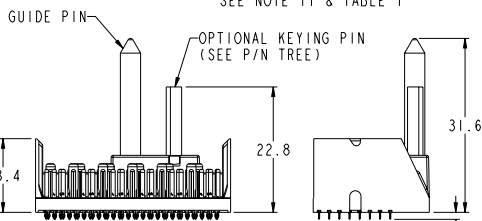
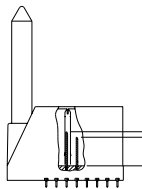
Copyright FCJ

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)



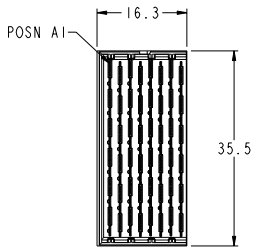
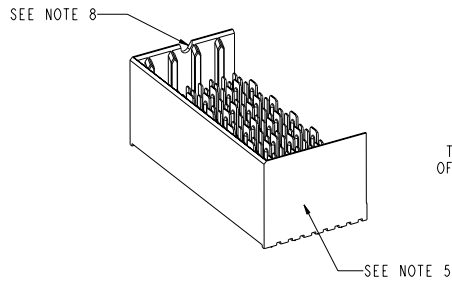
SEE DETAIL A (SHEET 8)
 PCB HOLE PATTERN COMPONENT SIDE
 SCALE 6:1

spec ref	SEE NOTES	dr	S. MANI	2009-09-05	projection	MM	size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecn no		rel level	Released
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family						
surface	linear	0.1	±0.2								
		0.2X	±0.10								
		0.2XX	±0.050								
ASME Y14.5	angular	0°	±°								

FCJ MODULE ASSEMBLY
 VERTICAL HEADER, 8 COLUMN, 6-PAIR
 SEE P/N TREE Product: Customer Draw sheet 3 of 6
 PDS: Rev: A STATUS: Released Printed: May 20, 2011

Copyright FCJ

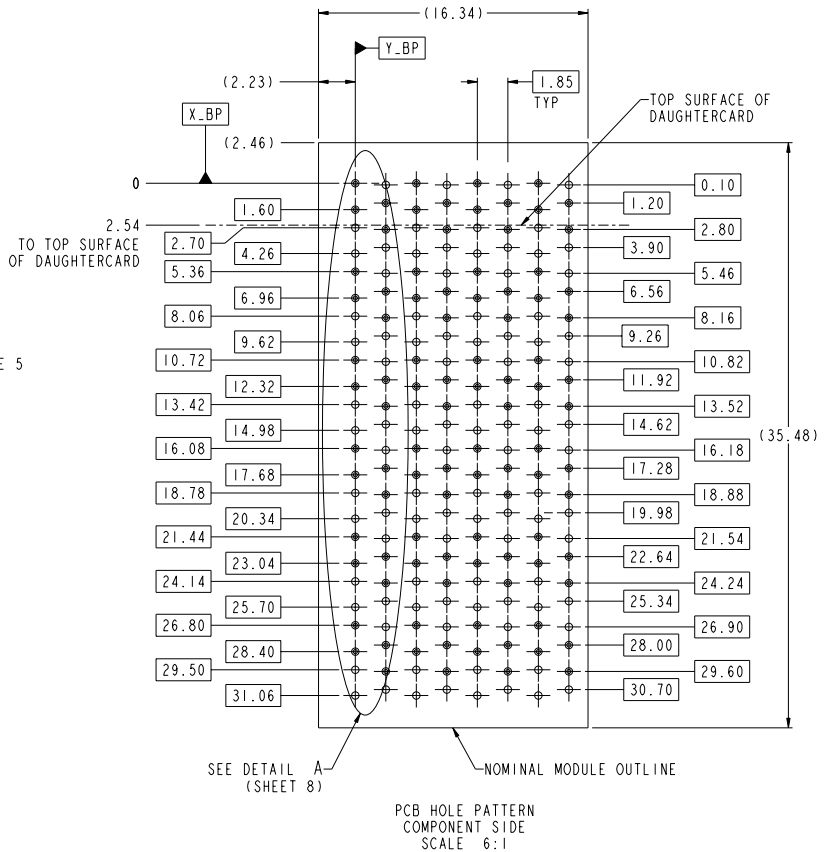
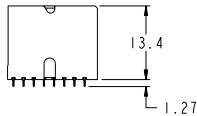
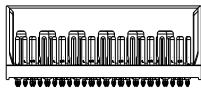
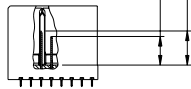
LEFT WALL MODULE



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)



Copyright FCJ

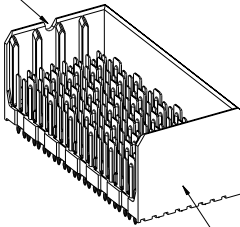
spec ref	SEE NOTES	dr	S MANI	2009-09-05	projection	MM	size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG, R	2011-05-16	chr	NG, R	2011-05-16	ecn no		rel level	Released
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family						
surface	linear	0.1	±0.2	0.2X	±0.10	0.2XX	±0.050	ang	20	rev	A
ASME Y14.5	angular	0°	±°								

FCJ MODULE ASSEMBLY
 VERTICAL HEADER, 8 COLUMN, 6-PAIR
 SEE P/N TREE Product: Customer Draw sheet 5 of 6

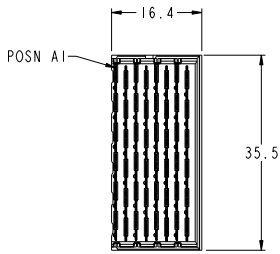
PDS: Rev: A STATUS: Released Printed: May 20, 2011

RIGHT WALL MODULE

SEE NOTE 8



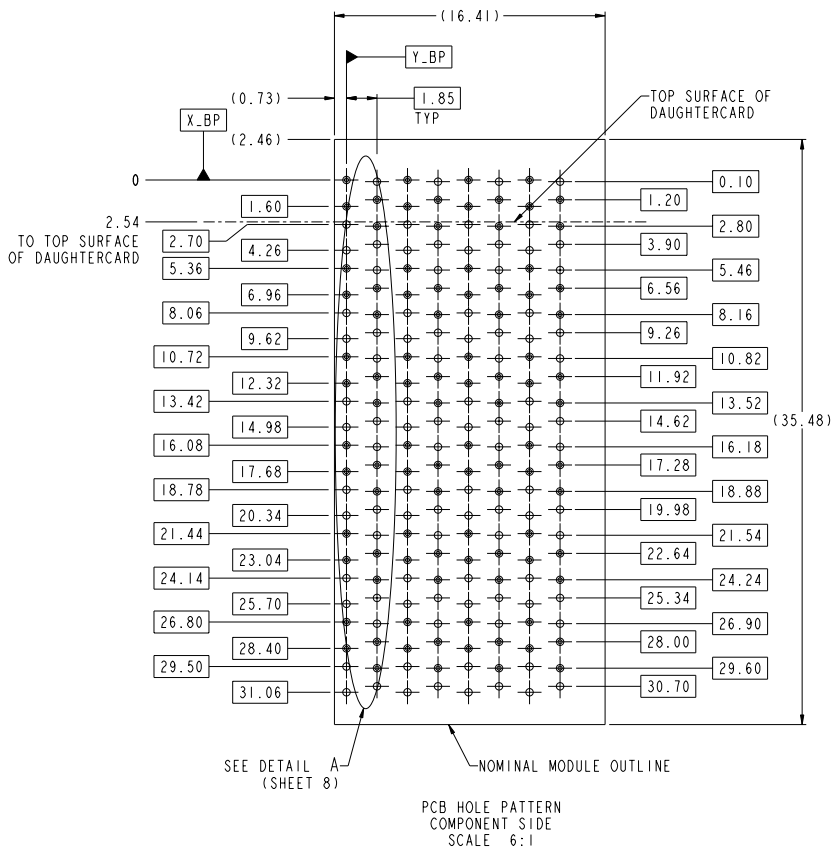
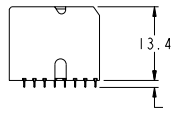
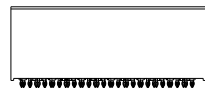
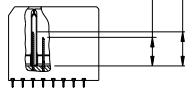
SEE NOTE 5



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

Copyright FCJ

spec ref	SEE NOTES	dr	S MANI	2009-09-05	projection	MM	size	A2	scale	3:1
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		rel level			
surface	linear	0.1	±0.2		FCJ MODULE ASSEMBLY VERTICAL HEADER, 8 COLUMN, 6-PAIR SEE P/N TREE Product: Customer Draw sheet 6 of 6					
ASME Y14.5	angular	0.1X	±0.10							
		0.1XX	±0.050		eng no	10104999	rev	A		
		0.2	±0.1							

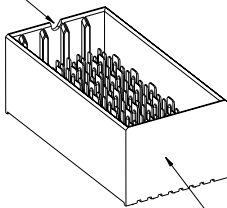
PDS: Rev: A

STATUS: Released

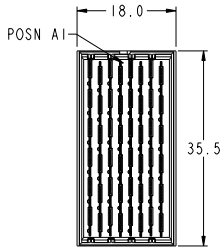
Printed: May 20, 2011

FOUR WALL MODULE

SEE NOTE 8

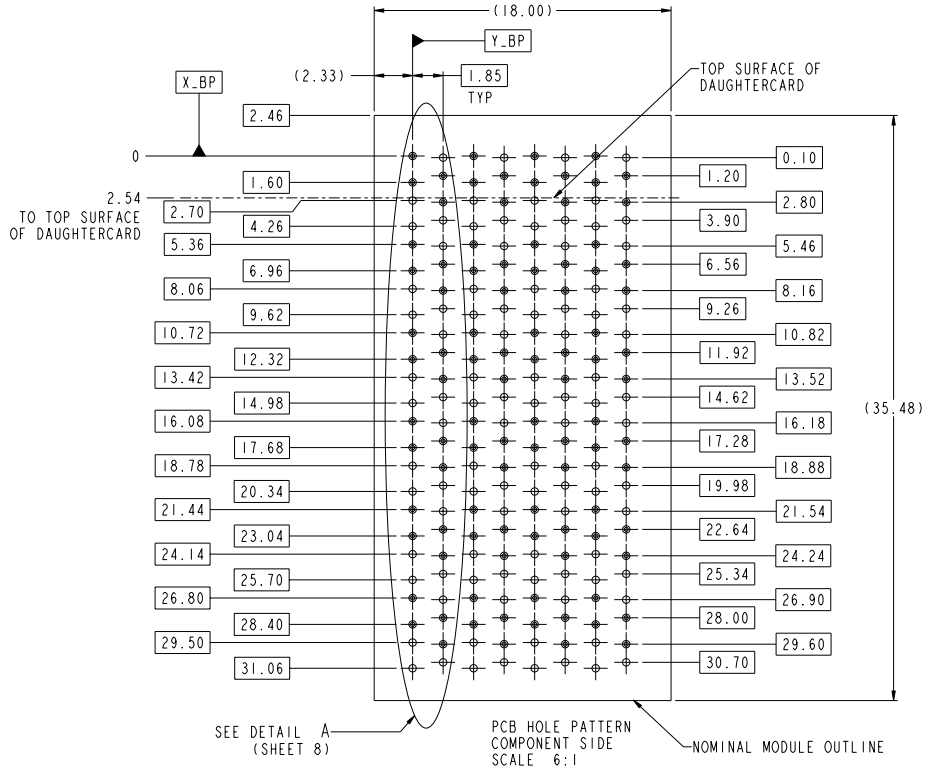
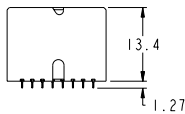
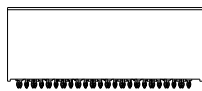
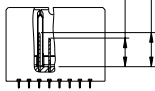


SEE NOTE 5



- 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)



SEE DETAIL A (SHEET 8)

PCB HOLE PATTERN COMPONENT SIDE SCALE 6:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES	dr	S MANI	2009-09-05	projection	MM	size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecn no		rel level	Released
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family						
surface	linear	0.1	±0.2								
		0.2X	±0.10								
		0.3XX	±0.050								
ASME Y14.5	angular	0°	±°								
		www.fcj.com		cat. no.	SEE P/N TREE	Product	Customer Draw	part no	10104999	rev	A
		PDS: Rev: A		STATUS: Released		Printed: 18 May 20, 2011				sheet 7 of 6	

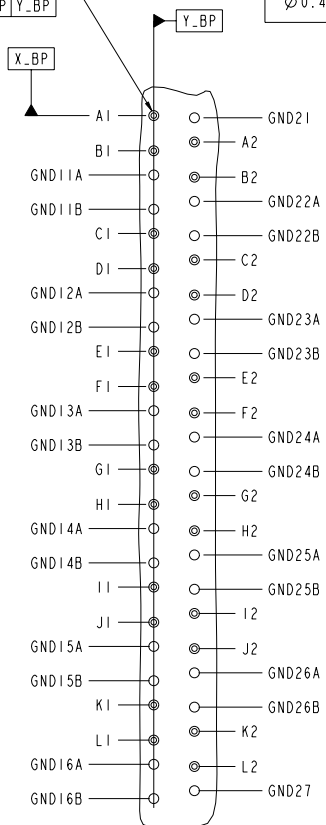
Copyright FCJ

- 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.

REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

\varnothing 0.10	X_BP	Y_BP
--------------------	------	------

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



DETAIL A
SCALE 8:1

spec ref	SEE NOTES	dr	S. MANI	2009-09-05	projection	MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	NG. R	2011-05-16	chr	NG. R	2011-05-16	ecm no		Released
ASME Y14.5		appr	C.H. TAN	2011-05-16	product family		rel level			
surface	linear	0.1	\pm 0.2	FCI	MODULE ASSEMBLY	10104999	rev	A		
		0.2X	\pm 0.10		VERTICAL HEADER, 8 COLUMN, 6-PAIR					
ASME Y14.5	angular	0.2XX	\pm 0.050	www.fcicom	SEE PIN TREE	Product	Customer Draw	sheet 8 of 8		

PDS: Rev: A STATUS: Released Printed: 18 May 20, 2011

Copyright FCI