

spec ref	-	dr	Hai-Ling Liu	2014/06/29	projection	MM	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Hai-Ling Liu	2014/07/15	chr	-	ecn no	-	rel level	Released
surface	ISO 1302	appr	Pei-Ming Zheng	2014/07/15	product family	STD VERT REC UNIVERSAL HIGH POWER CARD EDGE	cat. no.	10130787	rev	A
		TOLERANCES UNLESS OTHERWISE SPECIFIED								
		linear	0.X	±0.50						
			0.XX	±0.25						
			0.XXX	±0.10						
		angular	0°	±2°						

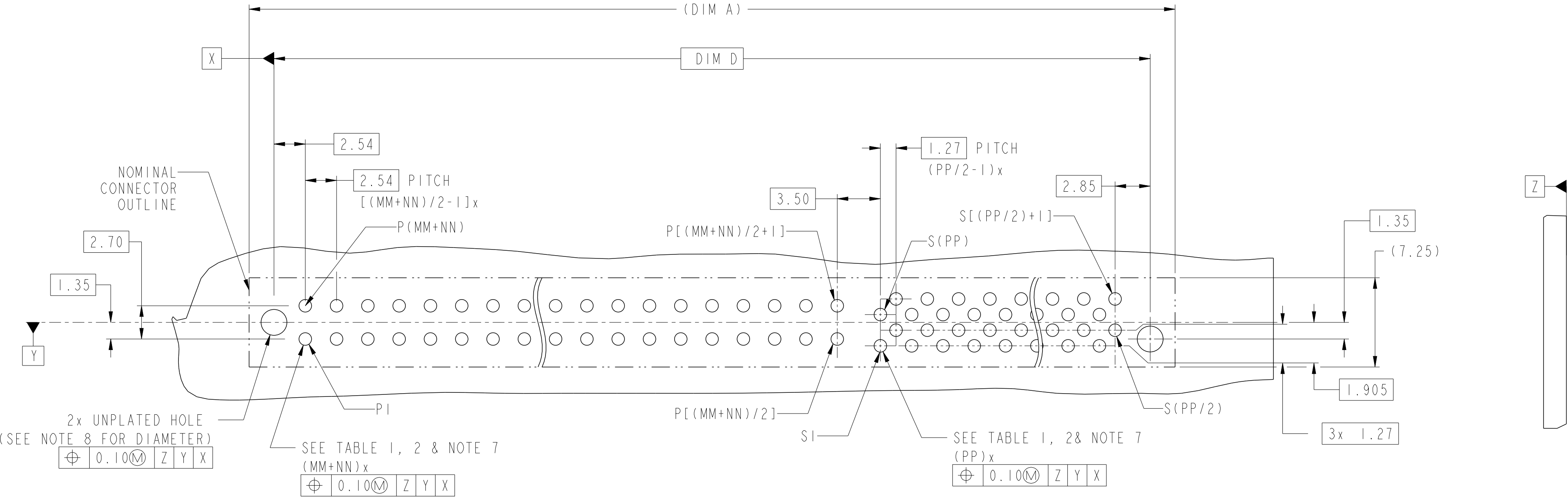
PDS: Rev :A

STATUS:Released

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CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 1 (HPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	TIN-LEAD	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	0.005 - 0.015	--	0.94 - 1.10
	IMMERSION TIN	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.94 - 1.10
	COPPER	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	--	0.94 - 1.10

CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 2 (HPCE / PRESS-FIT TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	TIN-LEAD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	0.005 - 0.015	--	0.65 - 0.80
	IMMERSION TIN	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.70 - 0.80
	COPPER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80



RECOMMENDED HOST BOARD LAYOUT

dr	Hai-Ling Liu	2014/06/29	projection	MM	size	A2	scale	1:1
eng	Hai-Ling Liu	2014/07/15			ecn no	-		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2014/07/15	product family					
FCI		title			std VERT REC UNIVERSAL		rev	
www.fci.com		cat. no.			HIGH POWER CARD EDGE		A	
Product - Customer Drw		sheet 2 of 4			10130787			



10130787 - MM NN PP LF

LEAD FREE

Polarization Key Option

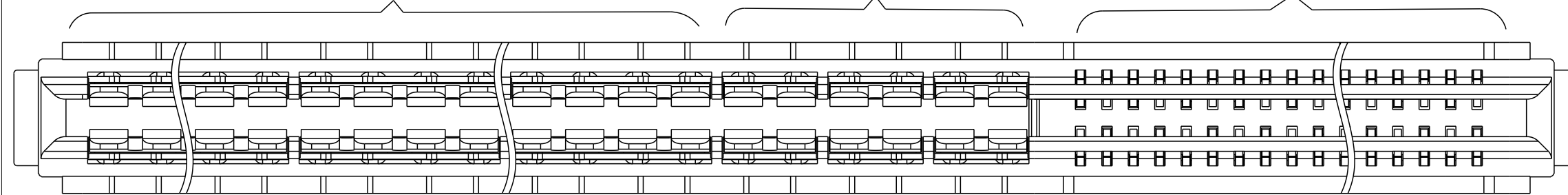
Tail Type  
Note 10

A	B	C	D
Y	Y	N	N
STB	PF	STB	PF

4 BEAM PWR CONTACT QTY  
(NEXT TO LEFT END)

2 BEAM PWR CONTACT QTY  
(NEXT TO SIGNAL)

SIGNAL CONTACT QTY



Example: The configuration above is 10130787-241232BLF  
STD VERT REC 36P32S with polarization key.  
24P is 4 beam contact, 12P is 2 beam contact.

TABLE 3. PART NUMBER CODE. HPCE STD VERT REC P+S CONFIG

NOTES:

1. CONNECTOR MATERIALS:

HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK  
UL 94V-0 COMPLIANT  
CONTACTS: HIGH PERFORMANCE COPPER ALLOY.

2. CONTACT FINISH REF. GS-12-604 SECTION 5.2.

3. PRODUCT SPECIFICATION: GS-12-604.

4. APPLICATION SPECIFICATION: GS-20-128.

5. PRODUCT MARKING (FCI - PART NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN.

6. PACKAGING MEETS FCI SPECIFICATION GS-14-937.

7. ALL HOLE SIZES ARE FINISHED HOLE SIZES.

8. MOUNTING HOLES ARE UNPLATED  
Ø 2.40 +/- 0.1 FOR PRESS-FIT TAILS TYPE  
Ø 2.18 +/- 0.03 FOR SOLDER TAILS TYPE

9. PRESS FIT APPLICATION TOOL DRAWING : 10119453.

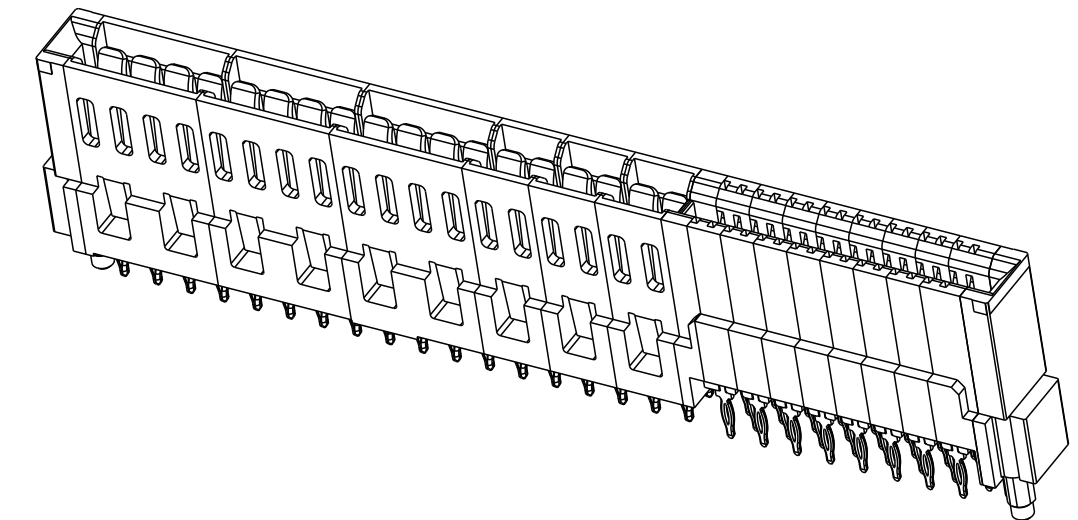
10. STB= SOLDER TO BOARD, 1.57-2.38mm PCB THICKNESS.  
PF = PRESS FIT, 1.57mm MINIMUM PCB THICKNESS.

11. MAXIMUM OVERALL LENGTH IS 100mm.




12. DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT  
OR 2 BEAM CONTACT.

TABLE 2. LENGTH FORMULAS.

DIM A 11	$(MM/8) \times 10.16 + (NN/4) \times 5.08 + (PP/2) \times 1.27 + 9.12$
DIM B	DIM "A" - 5.00
DIM C	DIM "A" - 2.34
DIM D	DIM "A" - 4.04
DIM E	DIM "A" - 5.30
DIM F 12	$(MM/8 - 1) \times 10.16 + (NN/4 - 1) \times 5.08 + 13.34$ (WITH 4 BEAM CONTACT)
	3.18 (WITHOUT 4 BEAM CONTACT)



EXAMPLE: 10130787-241232BLF

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eng	Hai-Ling Liu	2014/07/15			ecn no	-	rel level	Released				
chr	-	-										
appr	Pei-Ming Zheng	2014/07/15	product family									
			title		STD VERT REC UNIVERSAL				dwg no		10130787	
www.fci.com					HIGH POWER CARD EDGE		A					
cat. no.			Product - Customer Drw					sheet 4 of 4				

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