

rev	ecn no	dr	date
A	-	ERIC	2013-04-16
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

spec ref	-
tolerance std	ASME Y14.5
surface	linear
ASME Y14.5	angular

dr	Eric Jiang	2013/01/28
eng	Eric Jiang	2013/04/21
chr	-	-
appr	Pei-Ming Zheng	2013/04/21

projection	MM
product family	HPCE

size	A2	scale	4:1	
ecn no	-	rel level	Released	
title	VERT RECT (56P) HIGH POWER CARD EDGE		rev	A
cat. no.	-	Product - Customer Drw	sheet 1 of 3	

PDS: Rev :A

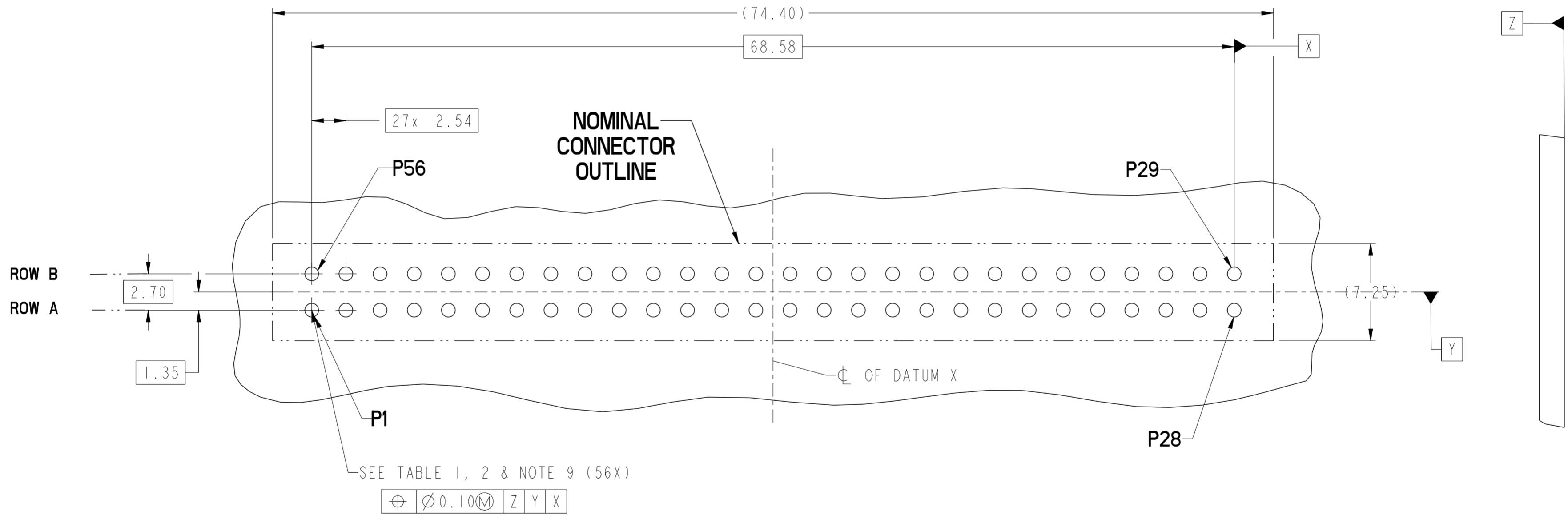
STATUS:Released

Printed: Apr 22, 2013

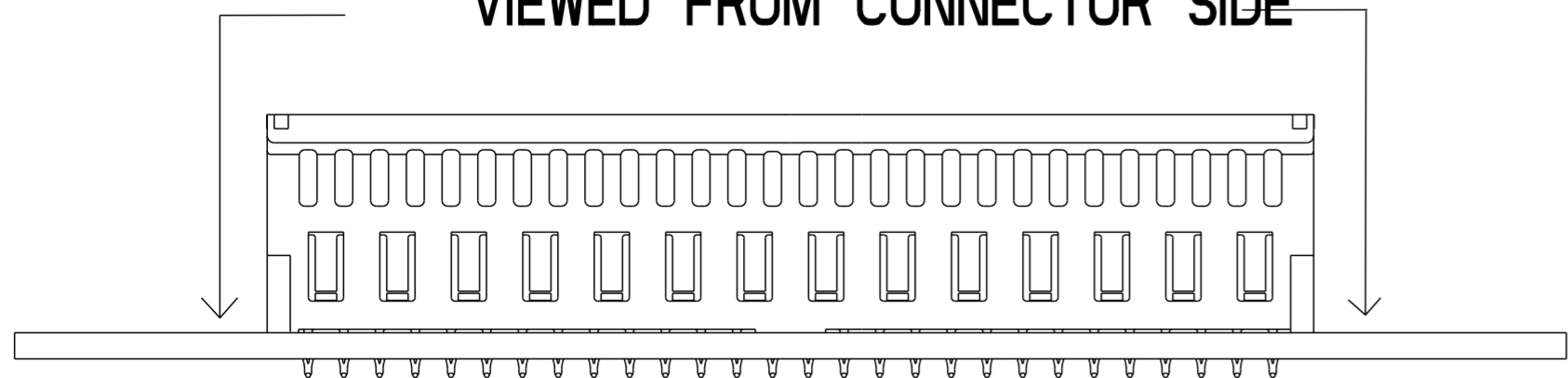
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CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 1 (HPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	TIN-LEAD	1.10-1.16 (1.15 DRILL)	0.025 - 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 (SEE NOTE 8)	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 (SEE NOTE 8)	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80



**RECOMMENDED PCB LAYOUT
VIEWED FROM CONNECTOR SIDE**



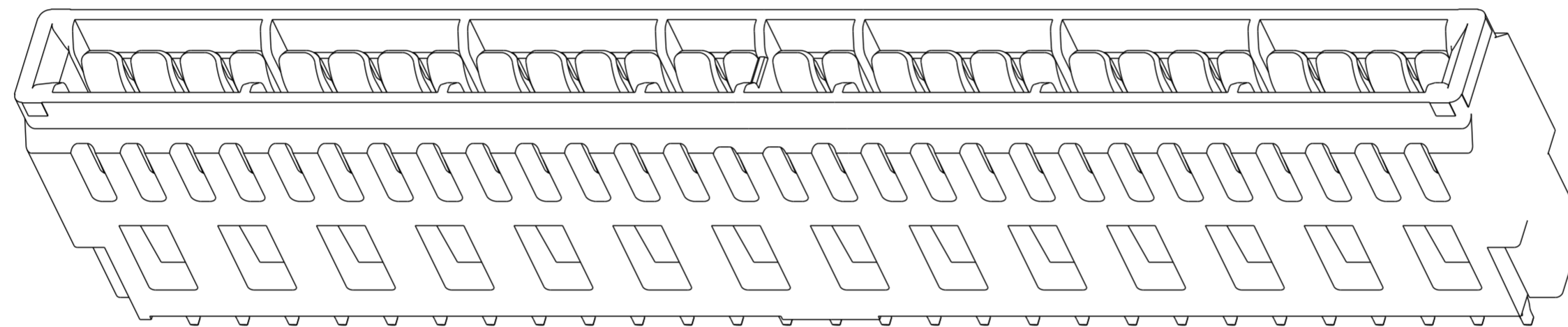
spec ref	-	dr	Eric Jiang	2013/01/28	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Eric Jiang	2013/04/21	chr	-	ecn no	-	rel level	Released
surface	✓	appr	Pei-Ming Zheng	2013/04/21	product family	HPCE	cat. no.	-	Product - Customer Drw	sheet 2 of 3
linear	0.X ±0.5 0.XX ±0.25 0.XXX ±0.10	angular	0° ±2°	www.fci.com	title	VERT RECT (56P) HIGH POWER CARD EDGE	cat. no.	-	Product - Customer Drw	sheet 2 of 3



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HPCE PART NUMBER (TABLE 3)

PART NUMBER	TAIL TYPE	DIM "A" TYPICAL TAIL LENGTH	DIM "B" RECOMMENDED BOARD THICKNESS
10124202-001LF	SOLDER	3.17 ±0.25	1.59 - 2.38
10124202-002LF	PRESS-FIT		1.57 MIN



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. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
8. COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE NO MORE THAN 0.003 LESS THAN OTHER AREAS.
9. ALL HOLE SIZES ARE FINISHED HOLE SIZES.
10. PRESS-FIT APPLICATION TOOL DRAWING:10119453
11. DRAWING 10124282 FOR BUSBAR DETAIL

spec ref	-	dr	Eric Jiang	2013/01/28	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Eric Jiang	2013/04/21			ecn no	-	rel level	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	2013/04/21			product family	HPCE	Released	
surface	linear	appr	Pei-Ming Zheng	2013/04/21			title	VERT RECT (56P)		rev
	angular	www.fci.com		cat. no.	-		Product - Customer Drw	sheet 3 of 3	A	