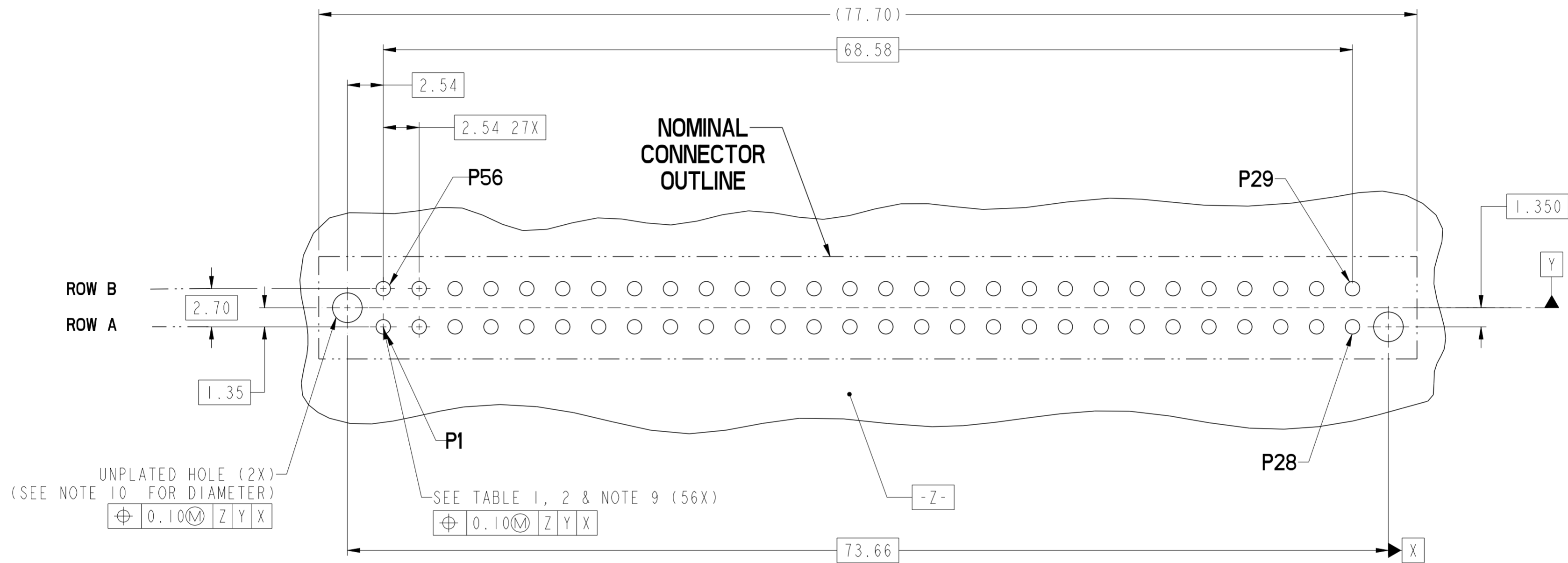


rev	ecn no	dr	date	spec ref	-	dr	Wei-Long Zhang	2011/12/18	projection	MM	size	A2	scale	4:1	
A		HZ	2012-03-05	tolerance std	ASME Y14.5	eng	Wei-Long Zhang	2012/03/06			ecn no	-	rel level	Released	
-	-	-	-	surface	✓	chr	Eleven Hu	2012/03/07							
-	-	-	-	TOLERANCES UNLESS OTHERWISE SPECIFIED linear 0.X ±0.3 0.XX ±0.10 0.XXX ±0.050 angular 0° ±2°	ASME Y14.5	appr	Pai-Ming Zheng	2012/03/07	product family	HPCE	rel level	Released			
-	-	-	-			www.fci.com	title	VERT RECT (56P) HIGH POWER CARD EDGE		cat. no.	-	Product - Customer Drw	sheet 1 of 4	rev	A
-	-	-	-												

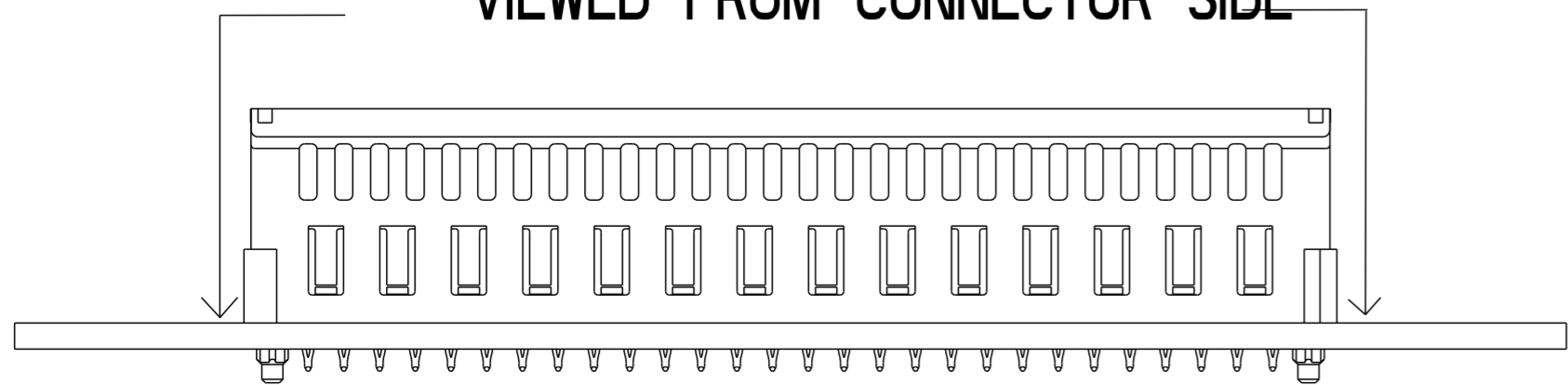
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UNPLATED HOLE (2X)  
(SEE NOTE 10 FOR DIAMETER)  
⊕ 0.10 M Z Y X

SEE TABLE 1, 2 & NOTE 9 (56X)  
⊕ 0.10 M Z Y X

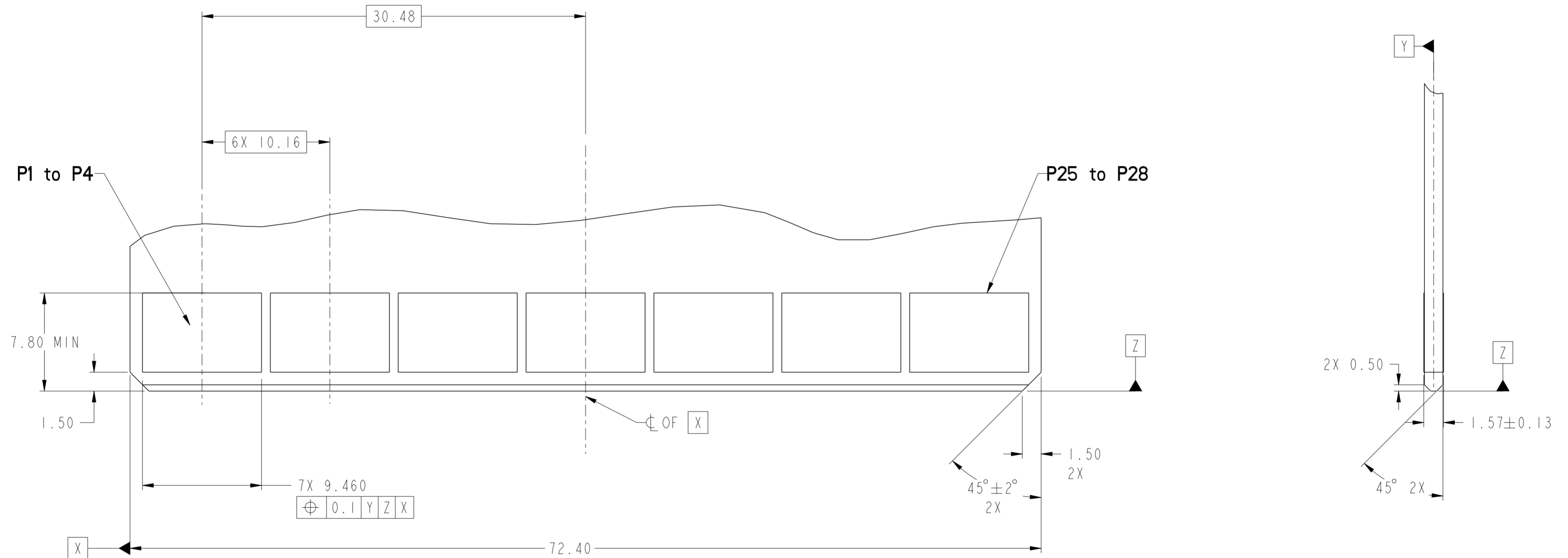
**RECOMMENDED PCB LAYOUT  
VIEWED FROM CONNECTOR SIDE**



spec ref	-	dr	Wei-Long Zhang	2011/12/18	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Wei-Long Zhang	2012/03/06			ecn no	-	rel level <b>Released</b>	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Eleven Hu	2012/03/07			product family	HPCE		
surface	linear 0.X ±0.3 0.XX ±0.10 0.XXX ±0.050 angular 0° ±2°	appr	Pei-Ming Zheng	2012/03/07			title	VERT RECT (56P) HIGH POWER CARD EDGE		dwg no
www.fci.com		cat. no.		Product - Customer Drw		sheet 2 of 4				

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



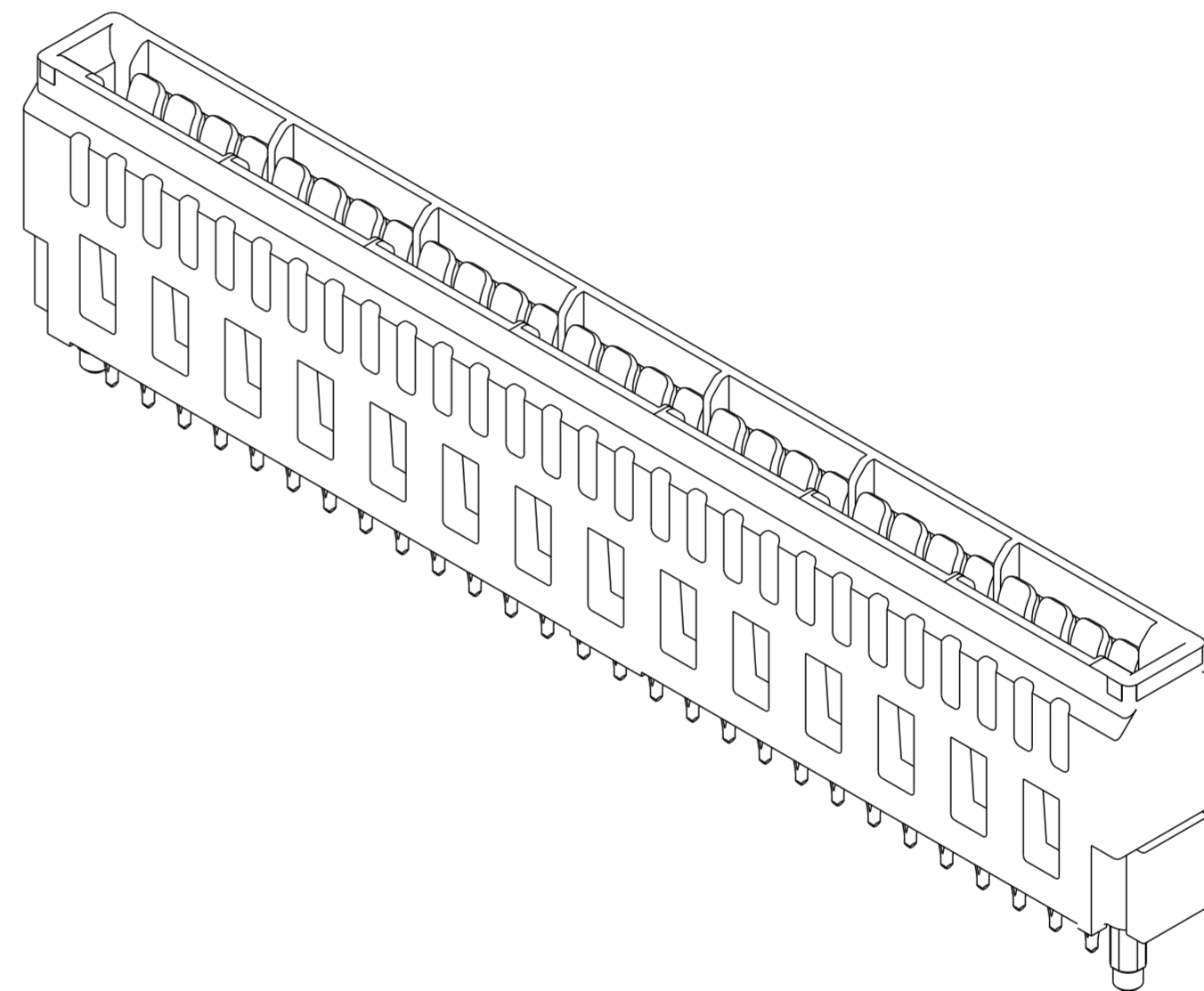
RECOMMENDED MATING BOARD  
FOOTPRINT

spec ref	-	dr	Wei-Long Zhang	2011/12/18	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Wei-Long Zhang	2012/03/06	chr	Eleven Hu	2012/03/07	ecn no	-	
TOLERANCES UNLESS OTHERWISE SPECIFIED		appr	Pai-Ming Zheng	2012/03/07	product family	HPCE	rel level	Released		
surface	linear	0.X	±0.3	FCJ	VERT RECT (56P) HIGH POWER CARD EDGE	www.fci.com	cat. no.	Product - Customer Drw	sheet 3 of 4	rev
	0.XX	±0.10								
	0.XXX	±0.050								
ASME Y14.5	angular	0°	±2°							



HPCE PART NUMBER (TABLE 3)

PART NUMBER	TAIL TYPE	DIM "A" TYPICAL TAIL LENGTH	DIM "B" RECOMMENDED BOARD THICKNESS
10119810-001LF	SOLDER	3.17 ±0.25	1.59 - 2.38
10119810-002LF	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. MOUNTING HOLES ARE UNPLATED  
 Ø 2.40 +/- 0.1 FOR PRESS-FIT TAILS  
 Ø 2.10 +/- 0.1 FOR SOLDER TAILS

spec ref	-	dr	Wei-Long Zhang	2011/12/18	projection	MM	size	A2	scale	4:1		
tolerance std	ASME Y14.5	eng	Wei-Long Zhang	2012/03/06			ecn no	-	rel level		Released	
surface	TOLERANCES UNLESS OTHERWISE SPECIFIED linear 0.X ±0.3 0.XX ±0.10 0.XXX ±0.050 angular 0° ±2°	chr	Eleven Hu	2012/03/07			product family	HPCE	dwg no	10119810	rev	A
		appr	Pai-Ming Zheng	2012/03/07			www.fci.com	cat. no.	-	Product - Customer Drw	sheet 4 of 4	