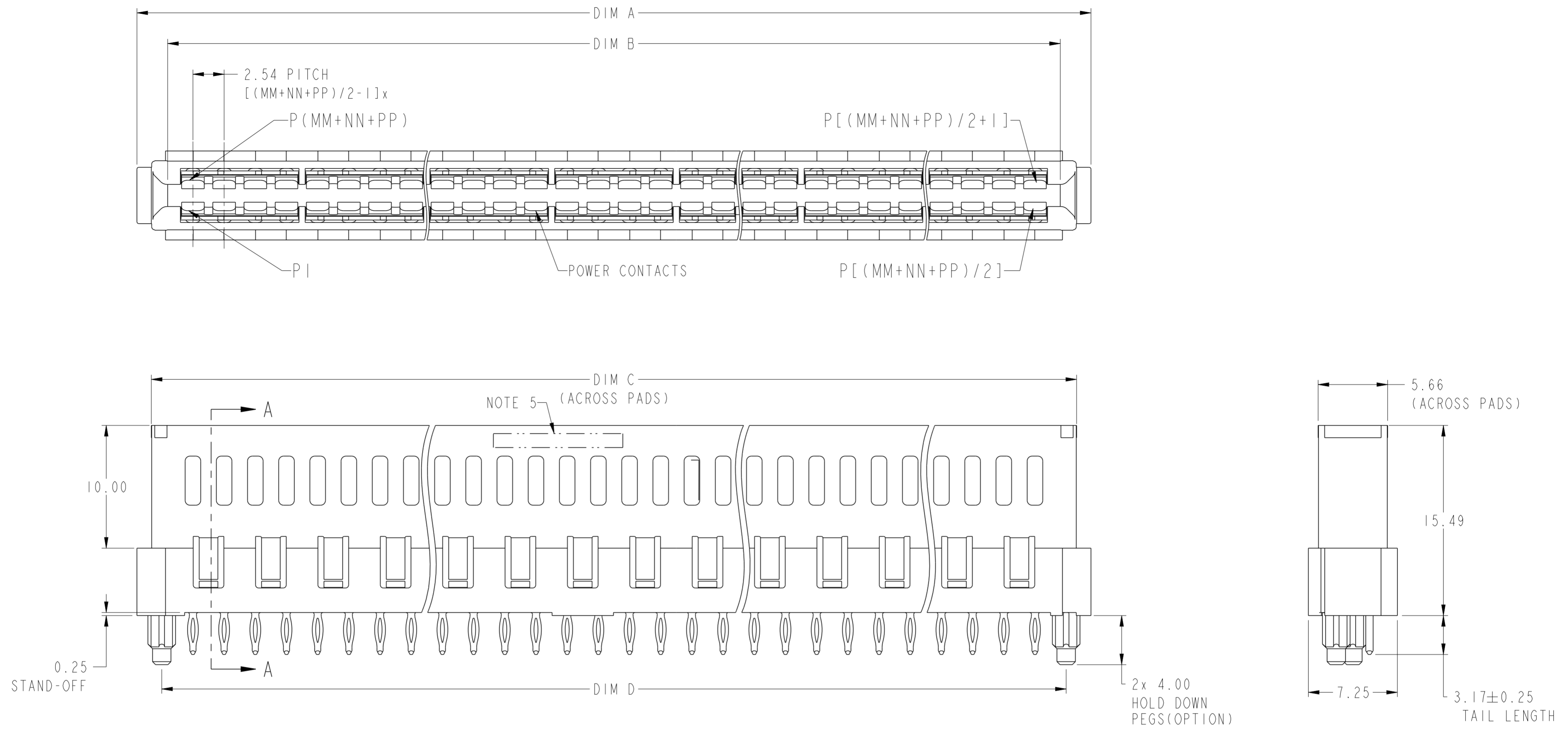


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SECTION A-A
SCALE 4:1

spec ref	-	dr	De-Ming Lu	2013/10/21	projection	MM	size	A2	scale	4:1		
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/06			ecn no	ELX-DG-24036-1				
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20			rel level	Released				
surface	ASME Y14.5	appr	Pai-Ming Zheng	2016/05/24			product family	HPCE	rel level	Released		
linear	0.X	±0.5				title STD. VERT RECT P CONFIG. HIGH POWER CARD EDGE	dwg no 10125138	rev B				
	0.XX	±0.25							cat. no.	-	Product - Customer Drw	sheet 1 of 4
angular	0°	±2°										

PDS: Rev :B

STATUS:Released

Printed: May 24, 2016

A

B

C

D

E

F

A

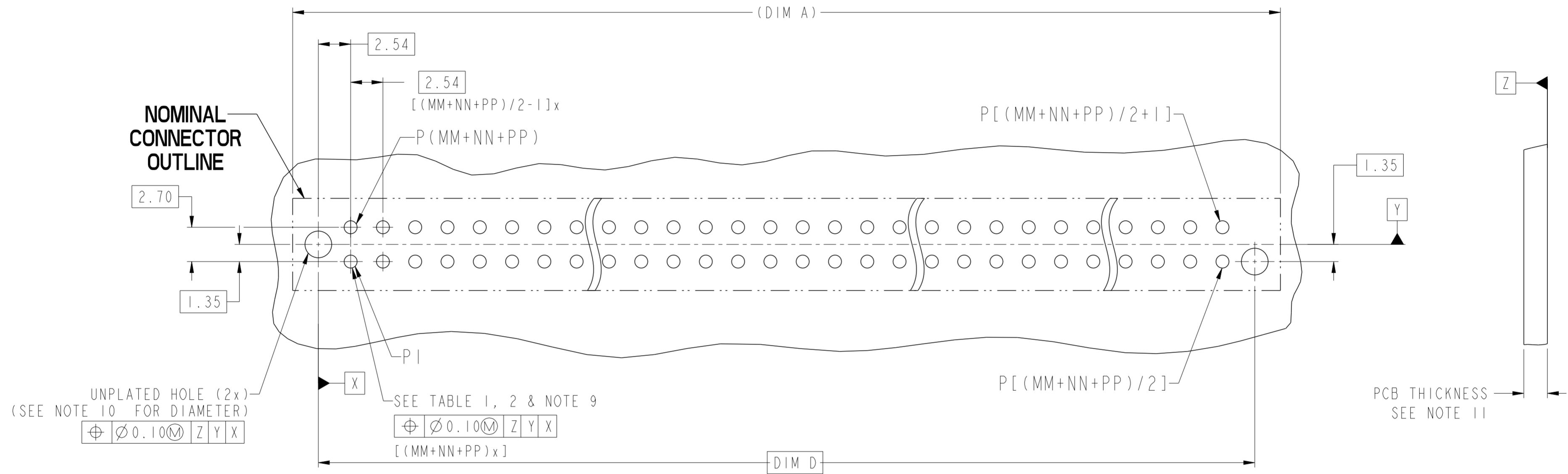
B

C

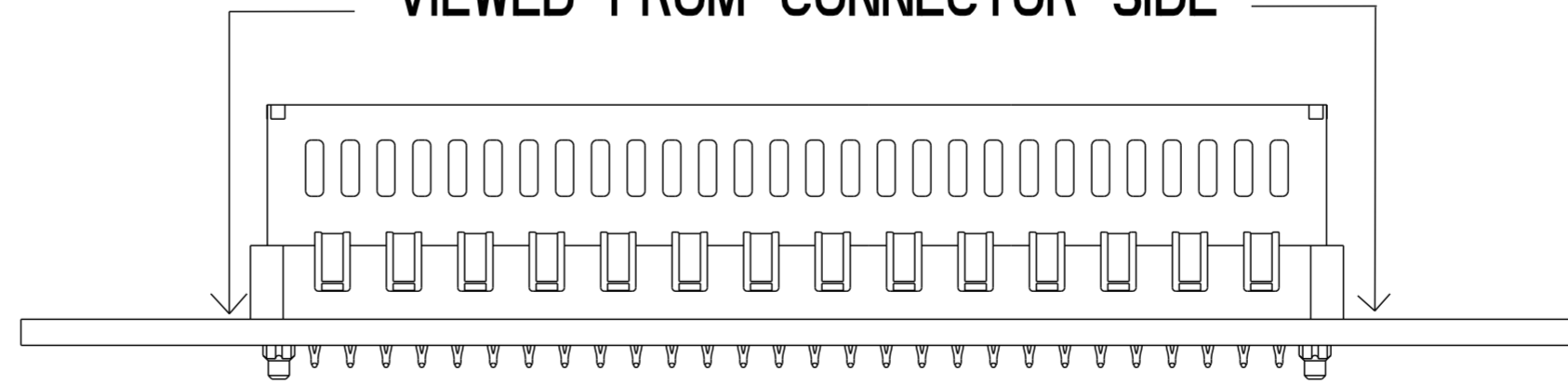
D

E

F



RECOMMENDED PCB LAYOUT
VIEWED FROM CONNECTOR SIDE



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spec ref	-	dr	De-Ming Lu	2013/10/21	projection	MM	size	A2	scale	1:1	
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/06			ecn no	ELX-DG-24036-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20			rel level	Released			
surface	ASME Y14.5	appr	Pei-Ming Zheng	2016/05/24			product family	-			
linear	0.X ±0.5 0.XX ±0.25 0.XXX ±0.10	Amphenol FCi		title	STD. VERT RECT P CONFIG. HIGH POWER CARD EDGE			dwg no	10125138		
angular	0° ±2°	cat. no.		Product - Customer Drw			rev	B			

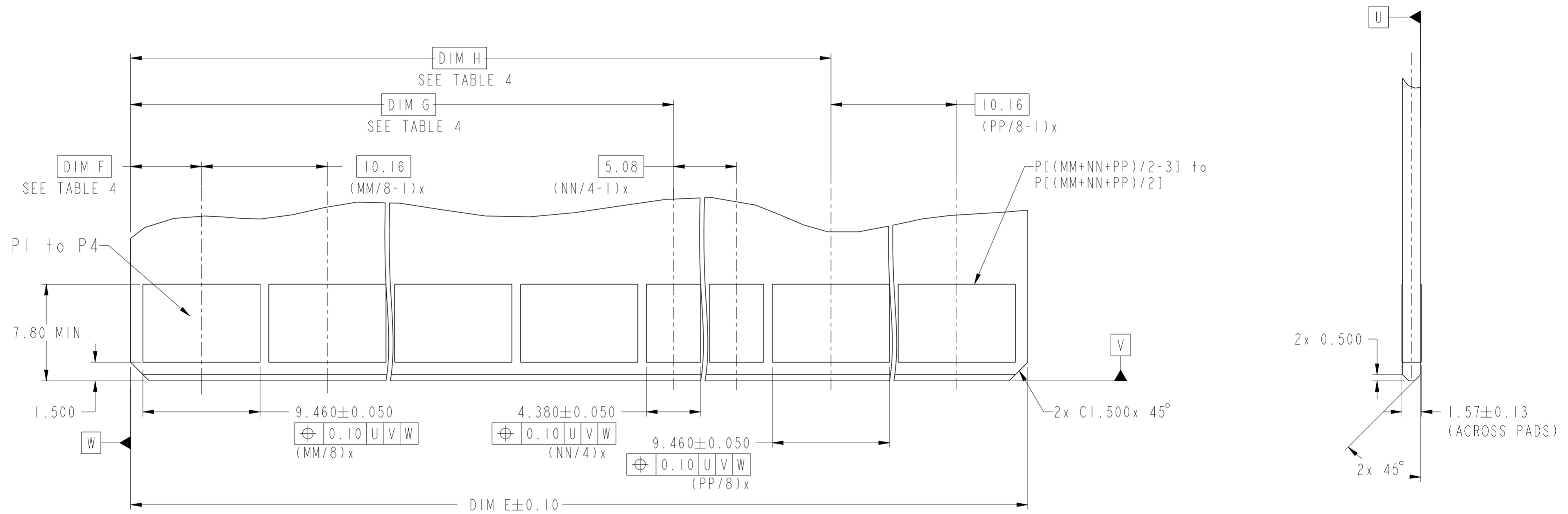
PDS: Rev :B

STATUS:Released

Printed: May 24, 2016

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	De-Ming Lu	2013/10/21	projection	MM	size	A2	scale	1:1
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/06			ecn no	ELX-DG-24036-1	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20						
		appr	Pai-Ming Zheng	2016/05/24						
surface	linear	0.X	±0.5		product family STD. VERT RECT P CONFIG. HIGH POWER CARD EDGE	title cat. no.	dwg no 10125138	rev B	Product - Customer Drw	sheet 3 of 4
		0.XX	±0.25							
	angular	0°	±2°							

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10125138 - MM NN PP

LF
LEAD FREE

	A	B
TAIL TYPE SEE NOTE 11	STB	PF

LEFT 4 BEAM POWER CONTACT QTY
MIDDLE 2 BEAM POWER CONTACT QTY
RIGHT 4 BEAM POWER CONTACT QTY

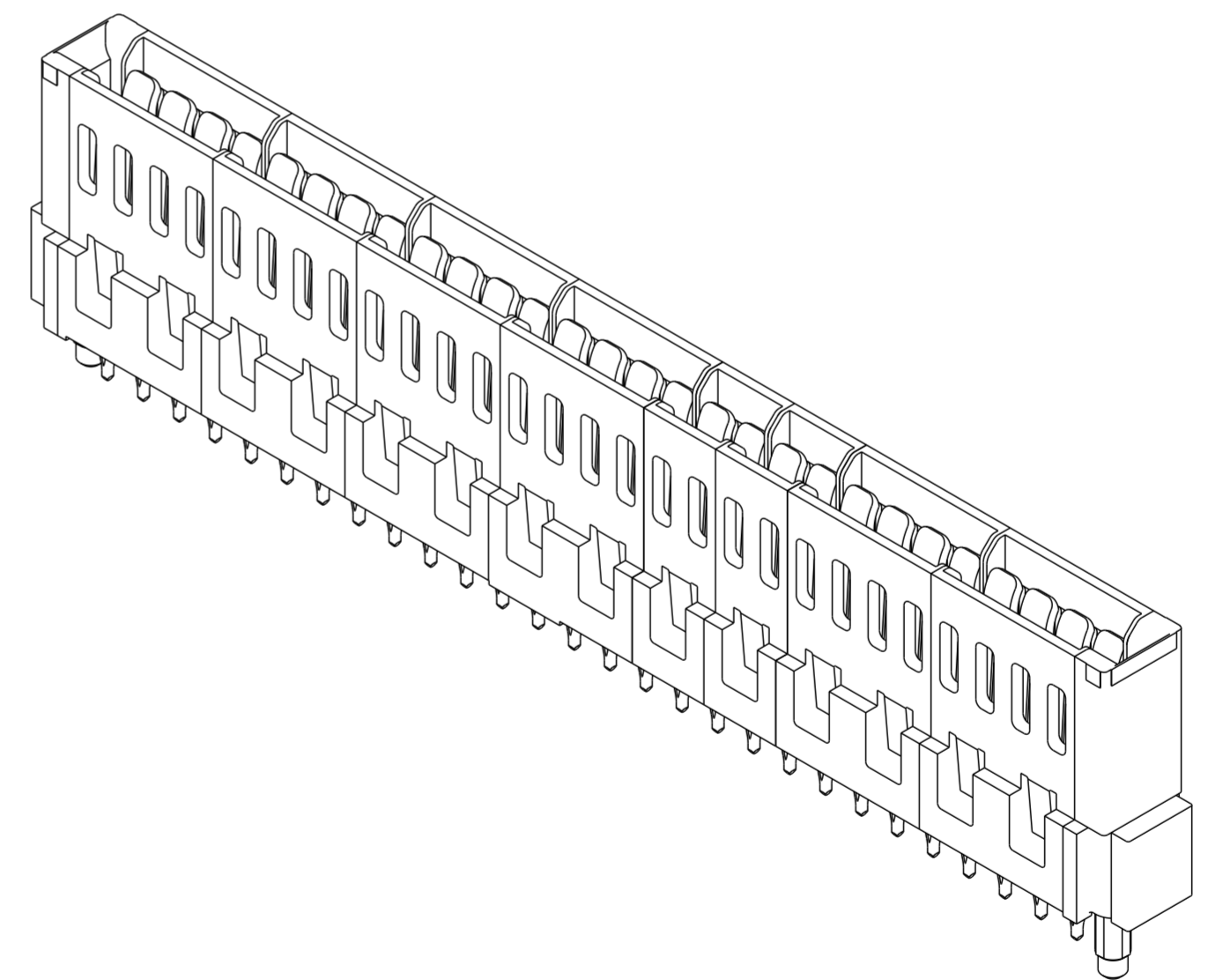
CONFIGURATION:
I: 4 BEAM (NN = 00 AND PP = 00);
II: 2 BEAM (MM = 00 AND PP = 00);
III: 4 BEAM + 2 BEAM (PP = 00);
IV: 2 BEAM + 4 BEAM (MM = 00);
V: 4 BEAM + 2 BEAM + 4 BEAM.

TABLE 3: HPCE STANDARD VERT REC P CONFIG

DIM	TABLE 4: LENGTH FORMULAS	
DIM A (12)	$(MM + NN + PP) / 2 \times 2.54 + 6.58$	
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	CONFIG. I	5.72
	CONFIG. II	-
	CONFIG. III	5.72
	CONFIG. IV	-
	CONFIG. V	5.72
DIM G	CONFIG. I	-
	CONFIG. II	3.18
	CONFIG. III	$(MM / 8 - 1) \times 10.16 + 13.34$
	CONFIG. IV	3.18
	CONFIG. V	$(MM / 8 - 1) \times 10.16 + 13.34$
DIM H	CONFIG. I	-
	CONFIG. II	-
	CONFIG. III	-
	CONFIG. IV	$(NN / 4 - 1) \times 5.08 + 10.80$
	CONFIG. V	$(MM / 8 - 1) \times 10.16 + (NN / 4 - 1) \times 5.08 + 20.96$

NOTES:

- CONNECTOR MATERIALS:
HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
UL 94V-0 COMPLIANT
CONTACTS: HIGH PERFORMANCE COPPER ALLOY.
- CONTACT FINISH REF. GS-12-604 SECTION 5.2.
- PRODUCT SPECIFICATION: GS-12-604.
- APPLICATION SPECIFICATION: GS-20-128.
- PRODUCT MARKING ON HOUSING IN AREA SHOWN MEETS AFCI SPECIFICATION: GS-24-007.
- PACKAGING MEETS FCI SPECIFICATION GS-14-937.
- HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
- COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE NO MORE THAN 0.003 LESS THAN OTHER AREAS.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED
Ø 2.40 +/- 0.1 FOR PRESS-FIT TAILS
Ø 2.18 +/- 0.03 FOR SOLDER TAILS
- STB= SOLDER TO BOARD, 1.57-2.38mm PCB THICKNESS
PF= PRESS FIT, 1.57mm MINIMUM PCB THICKNESS
- MAXIMUM OVERALL LENGTH IS 100mm
- A SYMBOL $\triangle B$ WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.



spec ref	-	dr	De-Ming Lu	2013/10/21	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Sunny2 Liu	2016/05/06			ecn no	ELX-DG-24036-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20			rel level	Released		
		appr	Pai-Ming Zheng	2016/05/24			product family	HPCE		
surface	linear	0.X	±0.5		title	STD. VERT RECT P CONFIG.		dwg no	10125138	
		0.XX	±0.25		cat. no.	-		Product - Customer Drw	sheet 4 of 4	
	angular	0°	±2°		rev	B				

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