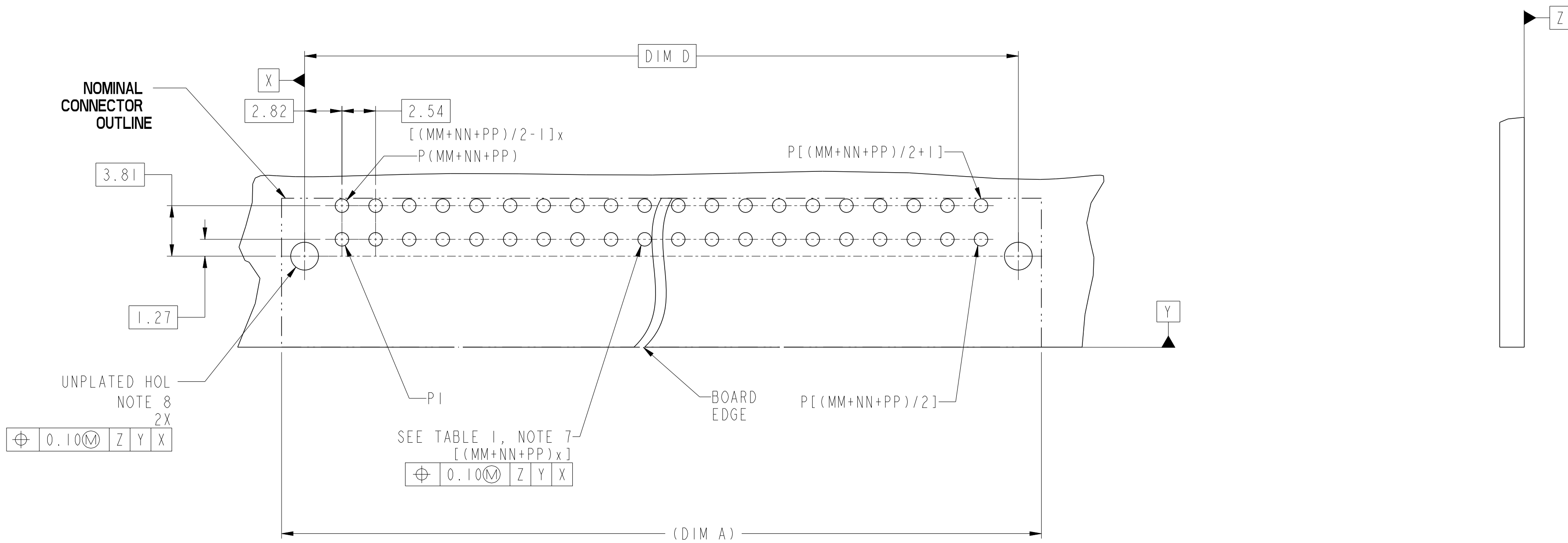


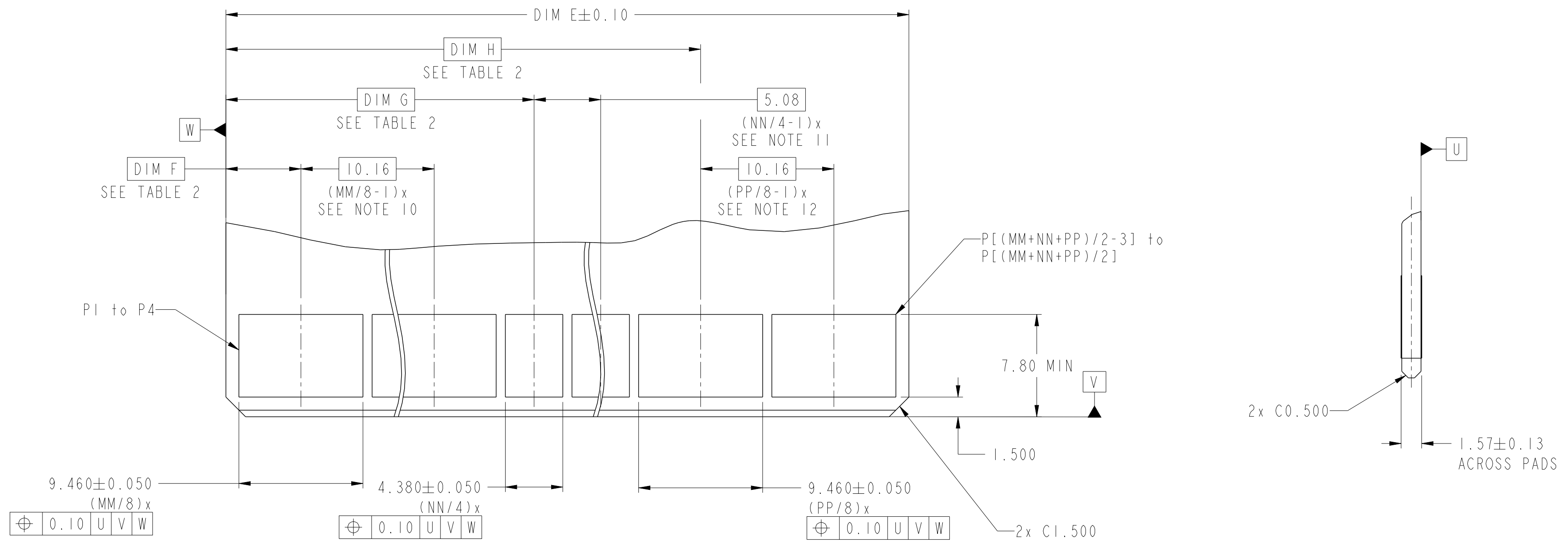
spec ref	-	dr	De-Ming Lu	2014/02/16	projection	MM	size	A2	scale	4:1
tolerance std	ISO 406 ISO 1101	eng	Sunny2 Liu	2015/10/27			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2015/10/27						
		appr	Pai-Ming Zheng	2015/10/27						
surface	ISO 1302	linear	0.X	±0.5	product family		HPCE	rel level	Released	
			0.XX	±0.25	title		HPCE RA WITH ENHANCED WALL	dwg no	10121512	rev
		angular	0°	±2°	UNIVERSAL DRAWING-ALL POWER					A
		www.fci.com		cat. no.	Product - Customer Drw		sheet 1 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	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



## RECOMMENDED PCB LAYOUT

dr	De-Ming Lu	2014/02/16	projection	MM	size	A2	scale	4:1
eng	Sunny2 Liu	2015/10/27			ecn no.	-	rel level	Released
chr	Terris Liu	2015/10/27						
appr	Pai-Ming Zheng	2015/10/27	product family	HPCE				
		title HPCE RA WITH ENHANCED WALL UNIVERSAL DRAWING-ALL POWER			dwg no. 10121512	rev A		
www.fci.com		cat. no.	Product - Customer Drw			sheet 2 of 4		



### RECOMMENDED MATING BOARD FOOT PRINT

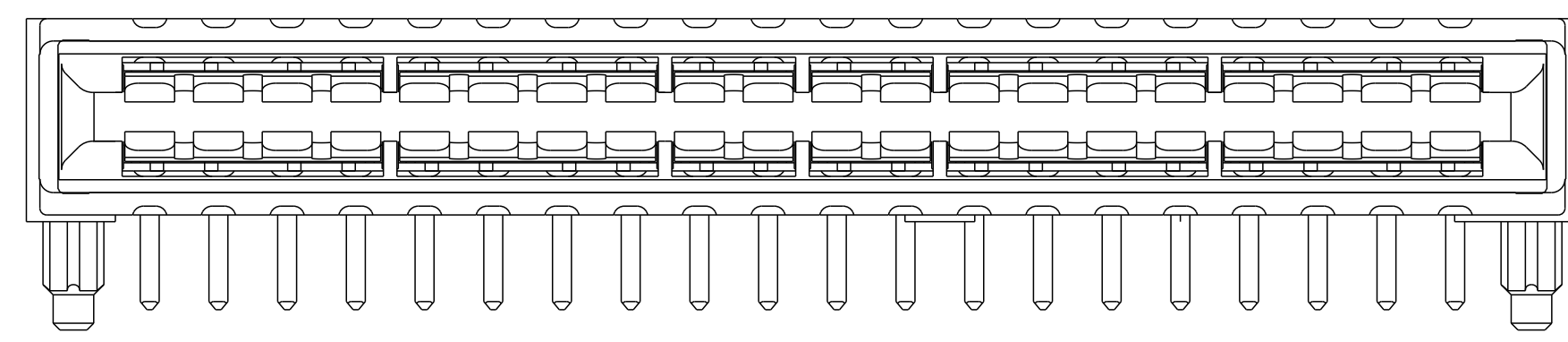


dr	De-Ming Lu	2014/02/16	projection	MM	size	A2	scale	4:1
eng	Sunny2 Liu	2015/10/27			ecn no	-	rel level	Released
chr	Terris Liu	2015/10/27						
appr	Pai-Ming Zheng	2015/10/27	product family	HPCE				
			title	HPCE RA WITH ENHANCED WALL	dwg no	10121512	rev	A
www.fci.com			cat. no.	Product - Customer Drw	sheet 3 of 4			

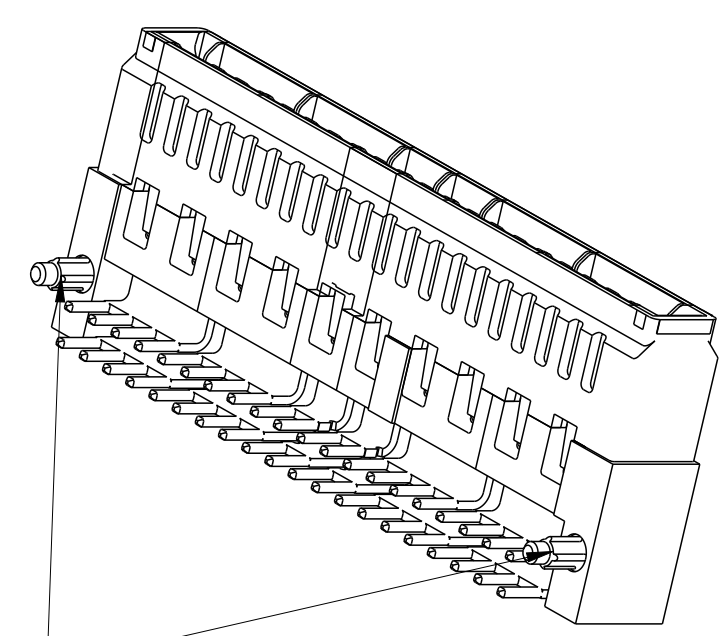
10121512 - MM NN PP LF

	A	B	C	D
Tail Length (DIM T)	2.60	2.60	3.25	3.25
Hold Down Option	Y	N	Y	N

4 BEAM PWR QTY (NEXT TO LEFT END)      2 BEAM PWR QTY (IN THE MIDDLE)      4 BEAM PWR QTY (NEXT TO RIGHT END)



CONFIGURATION:  
 I: 4BEAM (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.



HOLD DOWN

EXAMPLE: 10121512-160816CLF

Example: The configuration above is 10121512-160816CLF  
 R/A receptacle 40P with hold down.  
 32P is 4 beam contacts, 8P is 2 beam contacts.

TABLE 3: PART NUMBER CODE FOR HPCE R/A RECEPTACLE P CONFIGURATION

DIM	TABLE 2: LENGTH FORMULAS	
DIM A ⑨	$(MM + NN + PP) / 2 \times 2.54 + 6.58$	
DIM B	DIM A - 5.00	
DIM C	DIM A - 0.94	
DIM D	DIM A - 3.48	
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	$(MM / 8 - 1) \times 10.16 + (NN / 4 - 1) \times 5.08 + 20.96$
DIM T	2.60 or 3.25	

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 FCI SPECIFICATION GS-24-007.
- PACKAGING MEETS FCI SPECIFICATION GS-14-937.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED  
 $\varnothing 2.18 \pm 0.03$  FOR SOLDER TAILS
- MAXIMUM OVERALL LENGTH IS 100mm.
- DIM IS NOT APPLICABLE IF NO LEFT 4 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO 2 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO RIGHT 4 BEAM CONTACT.

dr	De-Ming Lu	2014/02/16	projection	MM	size	A2	scale	4:1
eng	Sunny2 Liu	2015/10/27			ecn no	-	rel level	Released
chr	Terris Liu	2015/10/27						
appr	Pei-Ming Zheng	2015/10/27	product family	HPCE				
			title	HPCE RA WITH ENHANCED WALL		dwg no	10121512	
www.fci.com			cat. no.	Product - Customer Drw		sheet	4 of 4	

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