

Amphenol  
FCi

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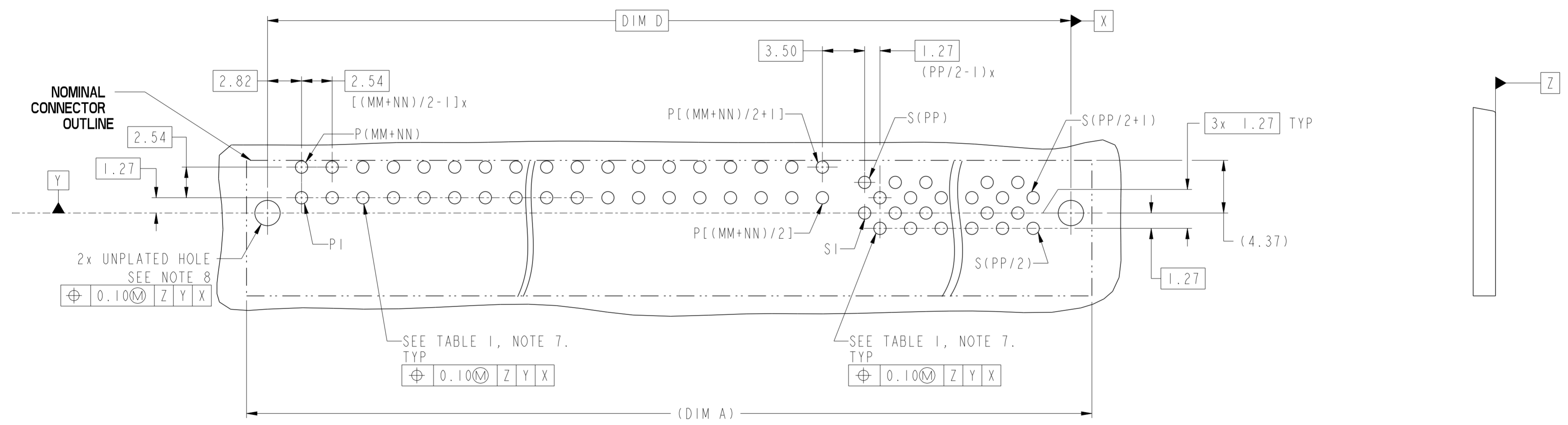
spec ref	-	dr	Hai-Ling Liu	2014/06/30	projection	MM	size	A2	scale	4:1
tolerance std	ISO 406 ISO 1101	eng	Ada Ye	2018/08/30			ecn no	ELX-DG-31039-1	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Feng Zheng	2018/08/31						
surface	linear	appr	Zheng, Pei-Min	2018/08/31	product family		cat. no.	R/A RECEPTACLE HIGH POWER CARD EDGE - UNIVERSAL	dwg no	10130788
	angular						Product - Customer Drw	sheet 1 of 4	rev	C
	0.X									
	0.XX									
	0.XXX									
	0°									
	±0.50									
	±0.25									
	±0.10									
	±2°									

PDS: Rev :C

STATUS:Released

Printed: Aug 31, 2018

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



**RECOMMENDED PCB LAYOUT**  
DIMENSION TOLERANCE IS  $\pm 0.05$  mm

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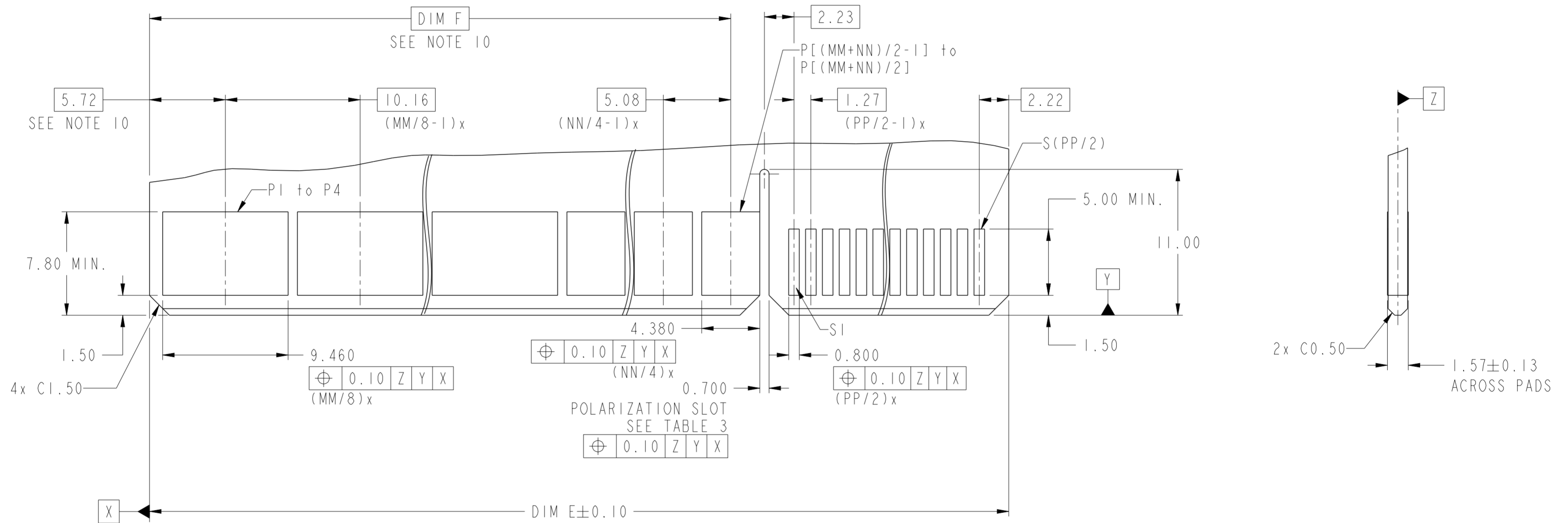
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spec ref	-	dr	Hai-Ling Liu	2014/06/30	projection	MM	size	A2	scale	4:1	
tolerance std	ISO 406 ISO 1101	eng	Ada Ye	2018/08/30			ecn no	ELX-DG-31039-1			
surface	linear 0.X ±0.50 0.XX ±0.25 0.XXX ±0.10 angular 0° ±2°	chr	Feng Zheng	2018/08/31				rel level	Released		
		appr	Zheng, Pei-Min	2018/08/31					Product - Customer Drw		
<b>Amphenol FCI</b> R/A RECEPTACLE HIGH POWER CARD EDGE - UNIVERSAL		cat. no.	10130788		rev	C					

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**RECOMMENDED MATING BOARD  
FOOT PRINT  
DIMENSION TOLERANCE IS  $\pm 0.05$  mm**

spec ref	-	dr	Hai-Ling Liu	2014/06/30	projection	MM	size	A2	scale	4:1
tolerance std	ISO 406 ISO 1101	eng	Ada Ye	2018/08/30			ecn no	ELX-DG-31039-1	cat. no. Product - Customer Drw sheet 3 of 4	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Feng Zheng	2018/08/31			rel level	Released		
surface	ISO 1302	appr	Zheng, Pei-Min	2018/08/31			product family			
linear	0.X ±0.50 0.XX ±0.25 0.XXX ±0.10	<b>Amphenol FCi</b>		title R/A RECEPTACLE HIGH POWER CARD EDGE - UNIVERSAL		dwg no 10130788 rev C				
angular	0° ±2°									

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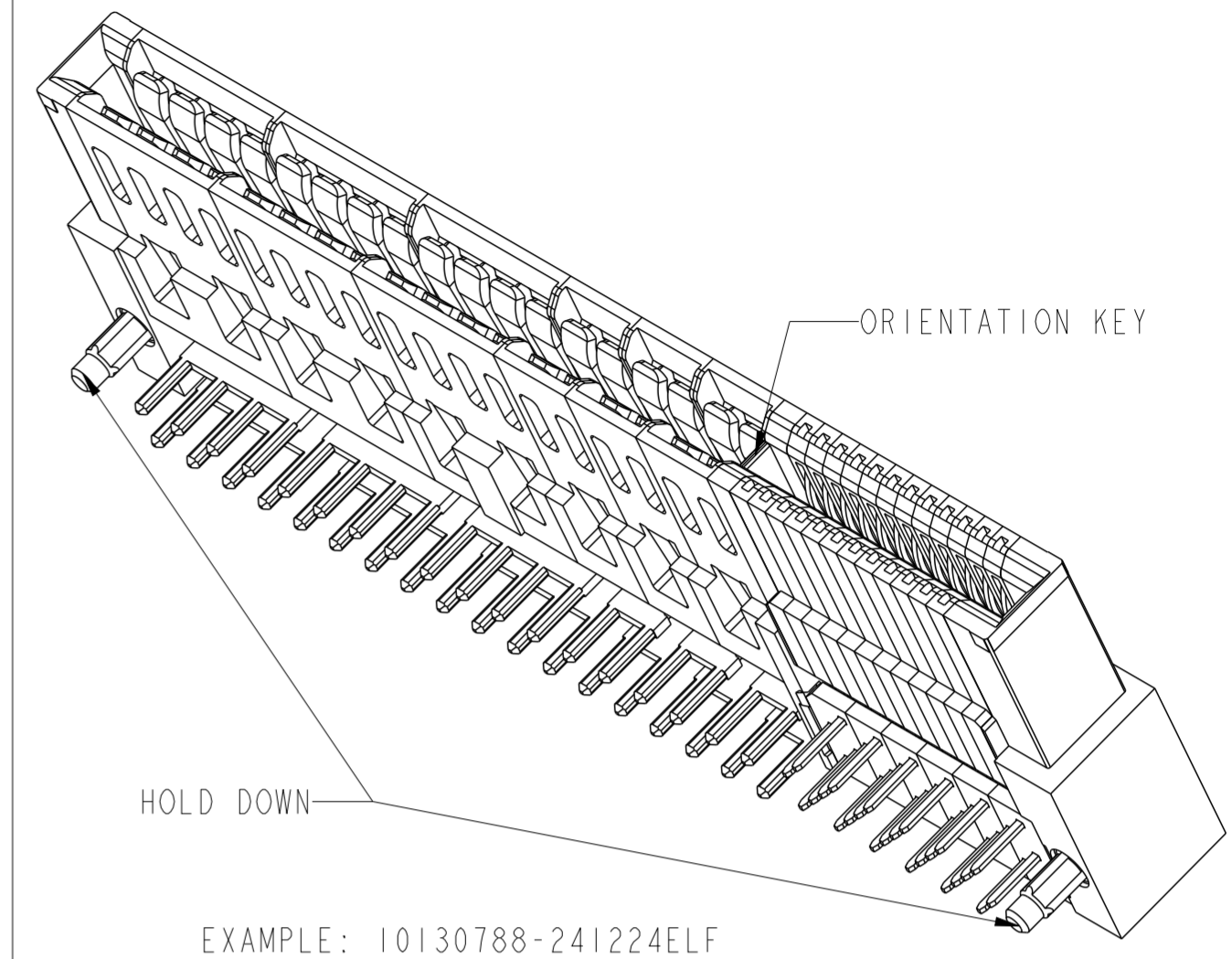
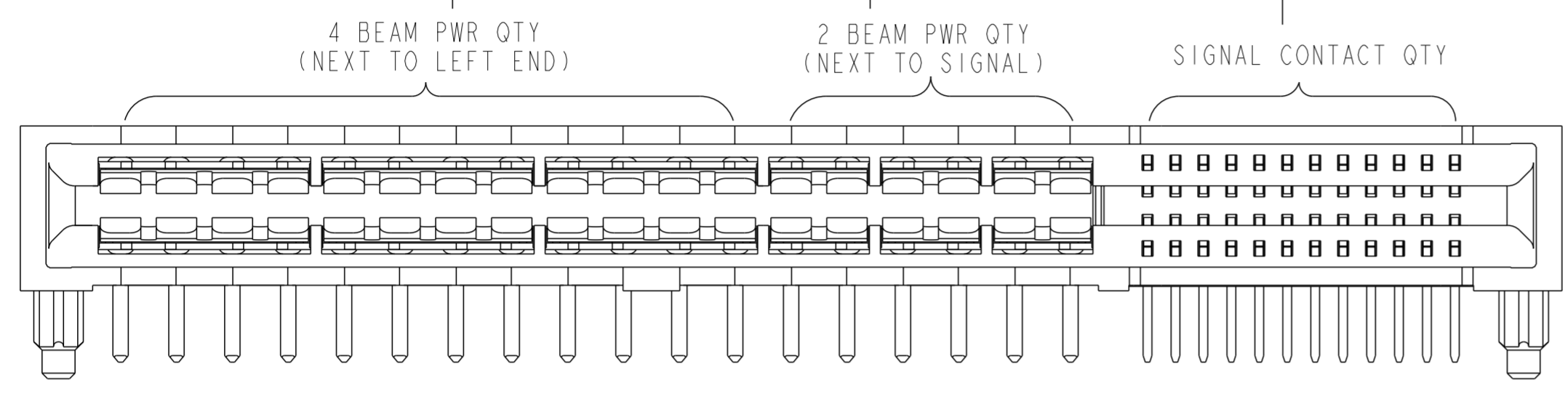
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10130788 - MM NN PP LF LEAD FREE

	A	B	C	D	E	F	G	H
Tail Length(DIM T)	2.6	2.6	2.6	2.6	3.25	3.25	3.25	3.25
Orientation Key	Y	N	N	Y	Y	N	N	Y
Hold Down Option	Y	Y	N	N	Y	Y	N	N

	J	K	L	M
△	4.05	4.05	4.05	4.05
	Y	N	N	Y
	Y	Y	N	N



Example: The Configuration above is 10130788-241224ELF  
 R/A RECEPTACLE 36P24S with Orientation Key and Hold Down.  
 24P is 4 beam contacts, 12P is 2 beam contacts.

TABLE 3: PART NUMBER CODE FOR HPCE R/A RECEPTACLE P+S CONFIG

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.
- 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 4 BEAM CONTACT OR 2 BEAM CONTACT.
- A SYMBOL △ WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

TABLE 2: LENGTH FORMULAS

DIM A	$(MM + NN) / 2 \times 2.54 + (PP / 2) \times 1.27 + 9.12$
DIM B	$DIM A - 5.00$
DIM C	$DIM A - 2.34$
DIM D	$DIM A - 3.48$
DIM E	$DIM A - 5.30$
DIM F	$(MM / 8 - 1) \times 10.16 + (NN / 4 - 1) \times 5.08 + 13.34$ (WITH 4 BEAM CONTACT) $(NN / 4 - 1) \times 5.08 + 3.18$ (WITHOUT 4 BEAM CONTACT)
DIM T	2.6 or 3.25 or 4.05

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tolerance std	ISO 406 ISO 1101	eng	Ada Ye	2018/08/30			ecn no	ELX-DG-31039-1			
surface	linear $0.X \pm 0.50$ $0.XX \pm 0.25$ $0.XXX \pm 0.10$ angular $0^\circ \pm 2^\circ$	chr	Feng Zheng	2018/08/31			rel level	Released			
		appr	Zheng, Pei-Min	2018/08/31			product family	R/A RECEPTACLE HIGH POWER CARD EDGE - UNIVERSAL			
Amphenol FCI		title	R/A RECEPTACLE HIGH POWER CARD EDGE - UNIVERSAL			cat. no.	10130788		sheet 4 of 4	rev	C

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