

Amphenol
FCi

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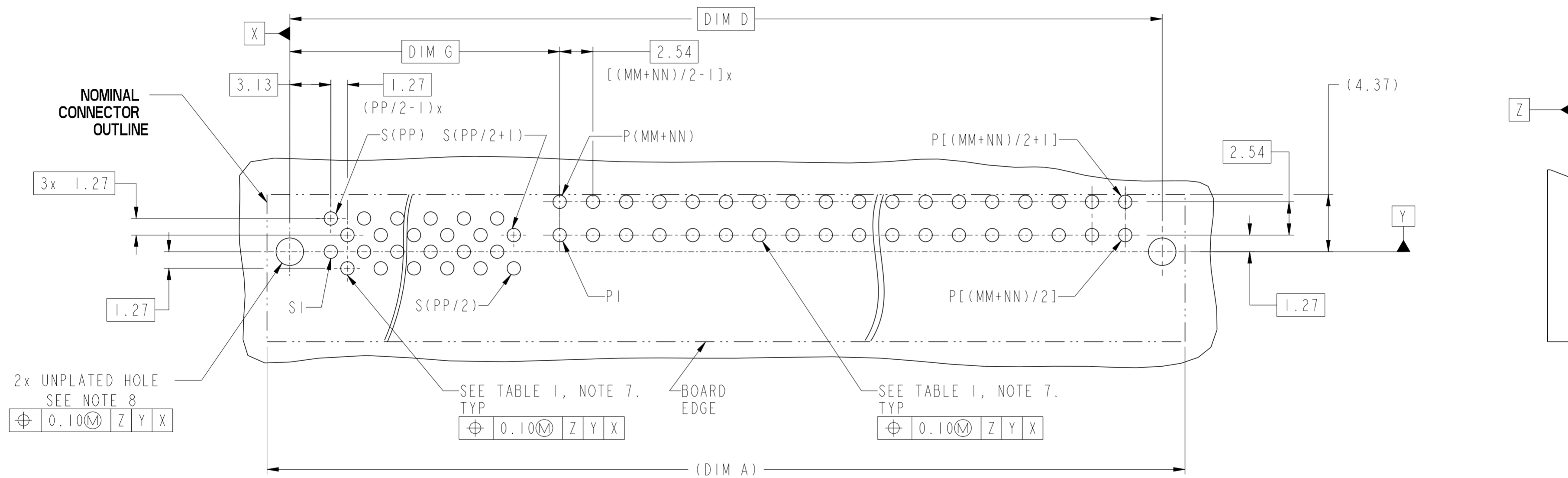
spec ref	-	dr	Hai-Ling Liu	2014/07/23	projection	MM	size	A2	scale	4:1
tolerance std	ISO 406 ISO 1101	eng	Sunny2 Liu	2016/05/06			ecn no	ELX-DG-24036-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20				rel level	Released	
surface	ISO 1302	appr	Pei-Ming Zheng	2016/05/24	product family	R/A REC S+P STANDARD			cat. no.	10131077
	linear	0.X	±0.5		HIGH POWER CARD EDGE - UNIVERSAL			rev	C	
		0.XX	±0.25		Product - Customer Drw			sheet 1 of 4		
	angular	0°	±2°							

PDS: Rev :C

STATUS:Released

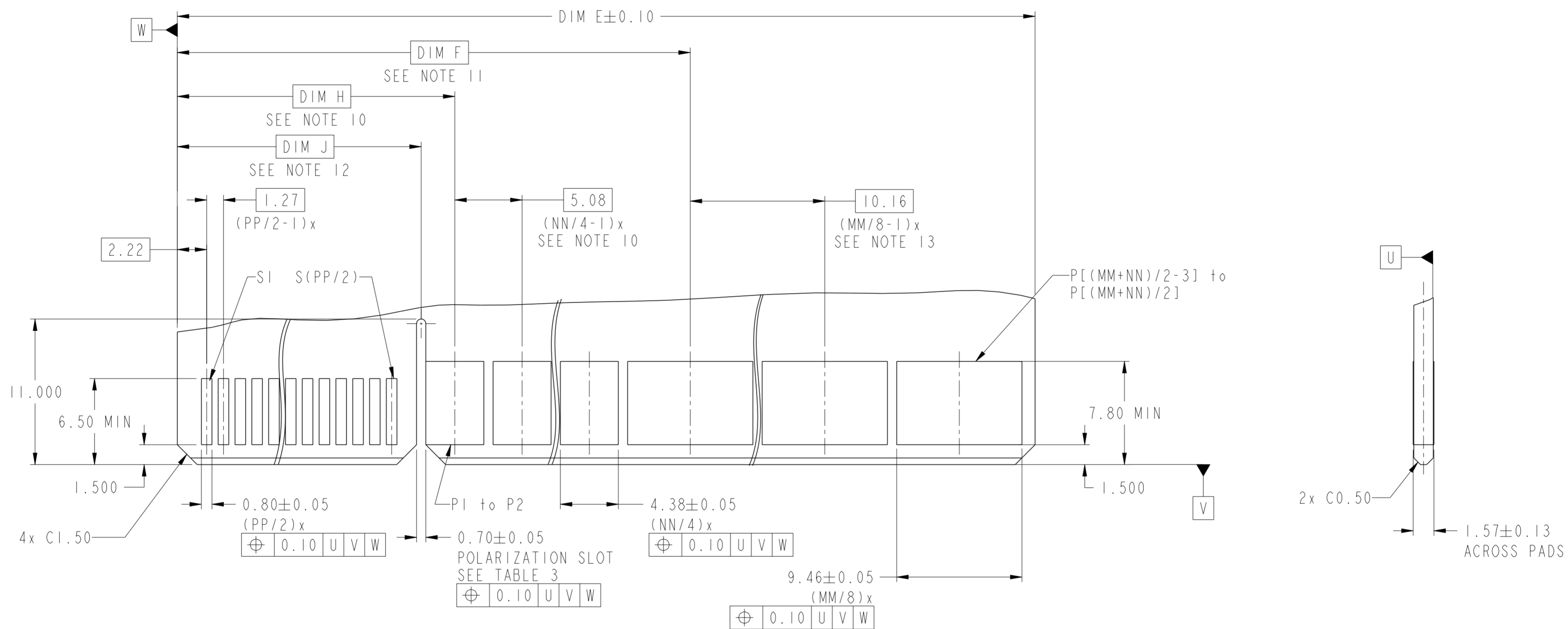
Printed: May 24, 2016

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	1.10-1.16 (1.15 DRILL)	0.025 - 0.050	--	--	0.94 - 1.10



RECOMMENDED PCB LAYOUT
DIMENSION TOLERANCE IS $\pm 0.05\text{mm}$

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tolerance std	ISO 406 ISO 1101	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	ISO 1302	linear	0.X	± 0.5	Amphenol FCI		product family	R/A REC S+P STANDARD	div no	10131077
		angular	0°	$\pm 2^\circ$	Amphenol FCI		product family	HIGH POWER CARD EDGE - UNIVERSAL	rev	C
		cat. no.		Product - Customer Drw		sheet 2 of 4				



RECOMMENDED MATING BOARD
FOOT PRINT
DIMENSION TOLERANCE IS ± 0.05 mm

spec ref	-	dr	Hai-Ling Liu	2014/07/23	projection	MM	size	A2	scale	4:1	
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TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20				rel level	Released		
surface	ISO 1302	appr	Pai-Ming Zheng	2016/05/24	product family	R/A REC S+P STANDARD		cat. no.	10131077	rev	C

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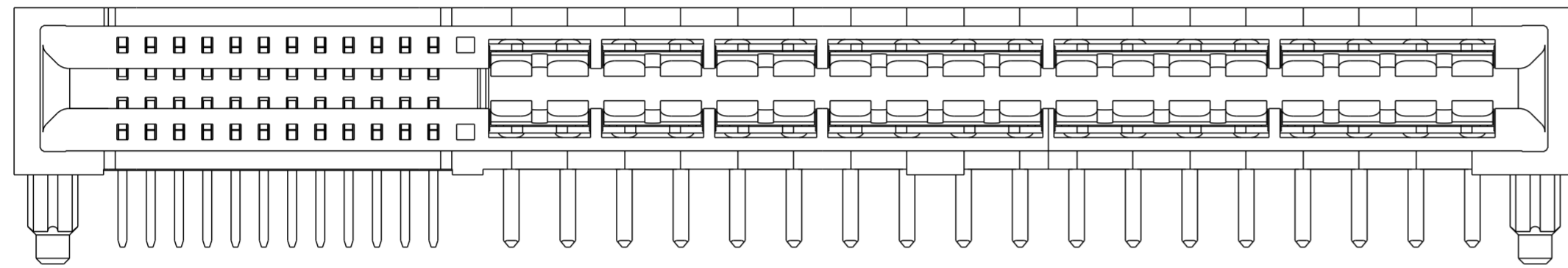
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10131077 - MM NN PP LF LEAD FREE

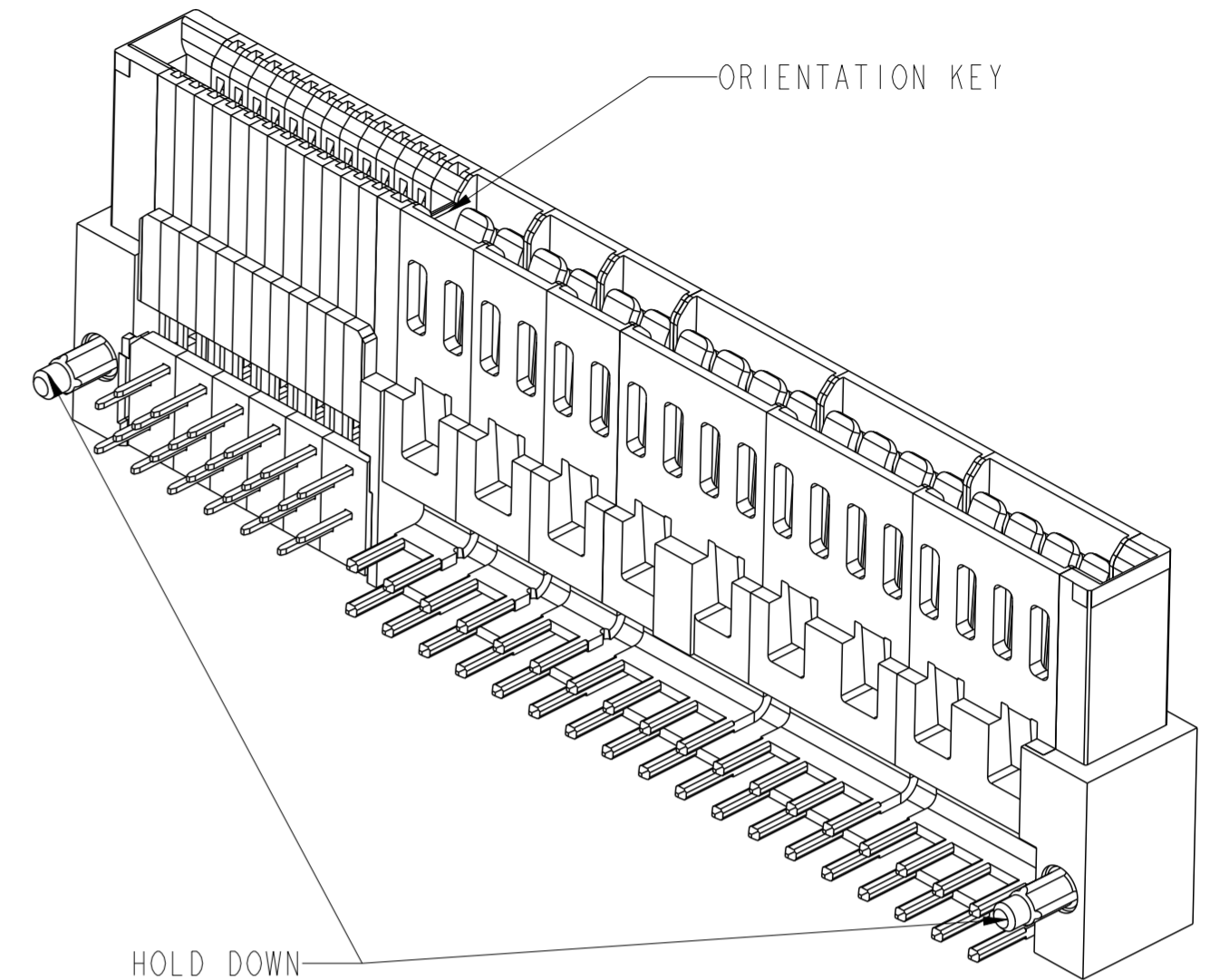
	A	B	C	D	E	F	G	H
Tail Length(DIM T)	2.6	2.6	2.6	2.6	3.25	3.25	3.25	3.25
Orientation Key	Y	N	N	Y	Y	N	N	Y
Hold Down Option	Y	Y	N	N	Y	Y	N	N

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

PP SIGNAL CONTACT QTY
 NN 2 BEAM PWR QTY (NEXT TO SIGNAL)
 MM 4 BEAM PWR QTY (NEXT TO RIGHT END)



Example: The Configuration above is 10131077-241224ELF
 R/A RECEPTACLE 24S36P with Orientation Key and Hold Down.
 24P is 4 beam contacts, 12P is 2 beam contacts.



EXAMPLE: 10131077-241224ELF

TABLE 3: PART NUMBER CODE FOR HPCE R/A RECEPTACLE S+P 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 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 2 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO ORIENTATION KEY.
- A SYMBOL \triangle WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

DIM	TABLE 2: LENGTH FORMULAS
DIM A $\text{\textcircled{1}}$	$(MM + NN) / 2 \times 2.54 + (PP / 2) \times 1.27 + 9.12$
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	$(PP / 2 - 1) \times 1.27 + (NN / 4 - 1) \times 5.08 + 14.61$ (WITH 2 BEAM CONTACT) $(PP / 2 - 1) \times 1.27 + 9.53$ (WITHOUT 2 BEAM CONTACT)
DIM G	$(PP / 2 - 1) \times 1.27 + 6.63$
DIM H	$(PP / 2 - 1) \times 1.27 + 6.99$
DIM J	$(PP / 2 - 1) \times 1.27 + 4.45$
DIM T	2.6 or 3.25

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					Amphenol FCI	title	R/A REC S+P STANDARD			rev	C
							cat. no.	Product - Customer Drw			sheet 4 of 4