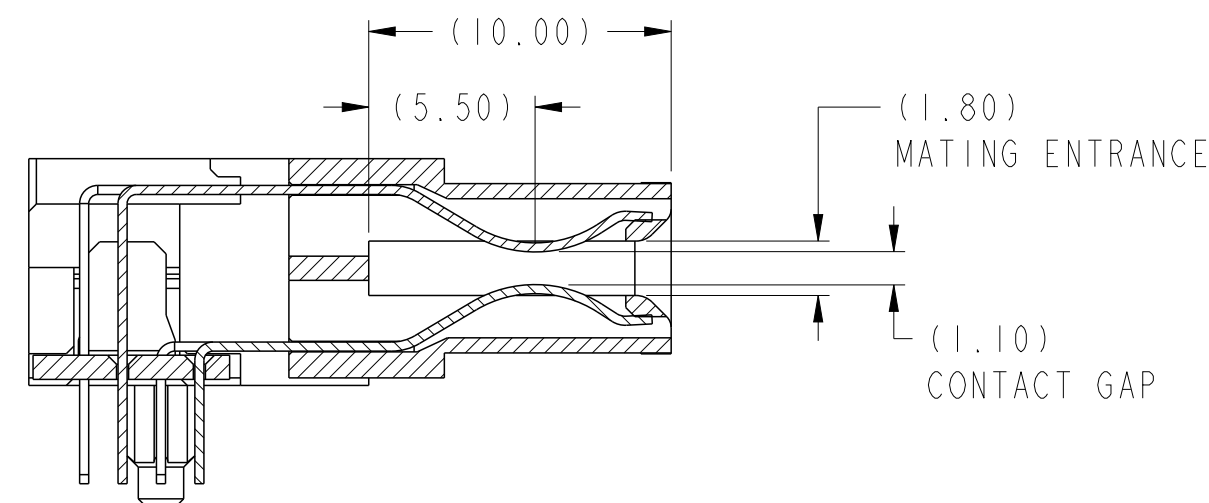
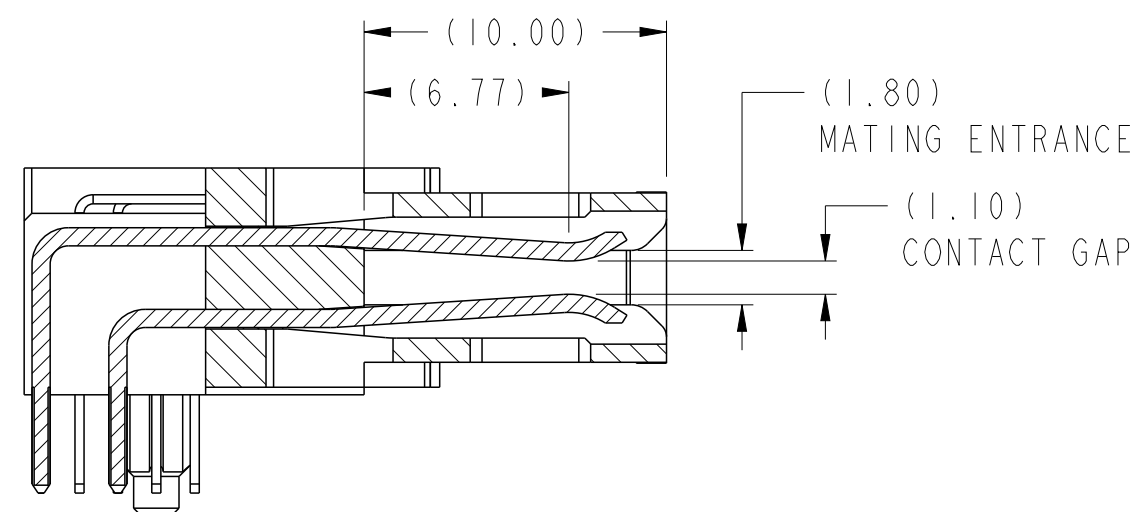
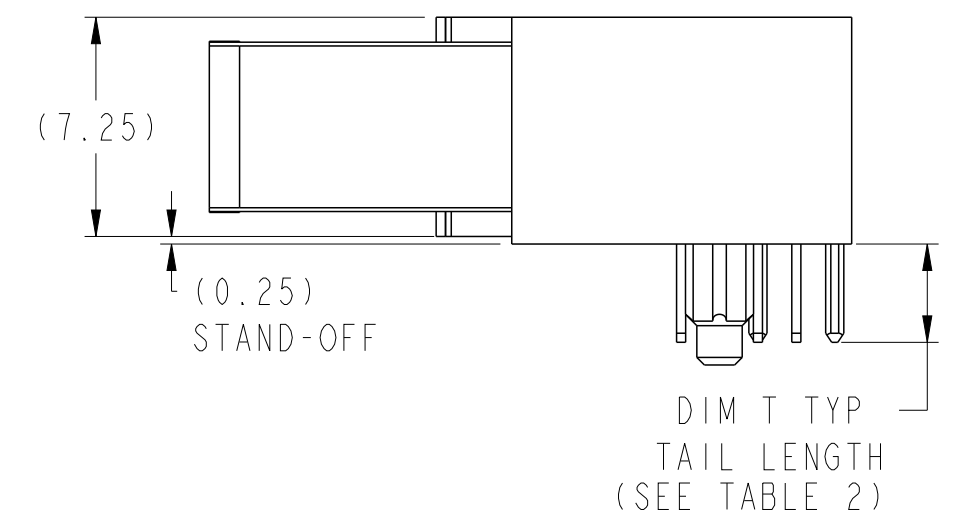
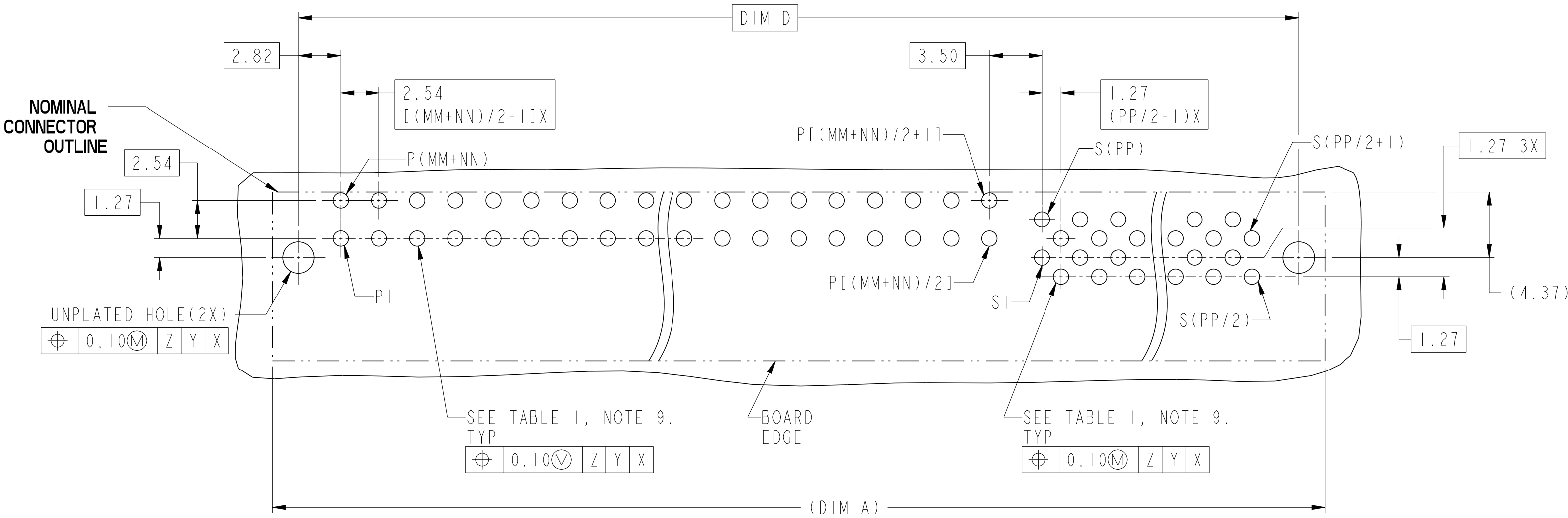




SECTION B-B
SCALE 4:1

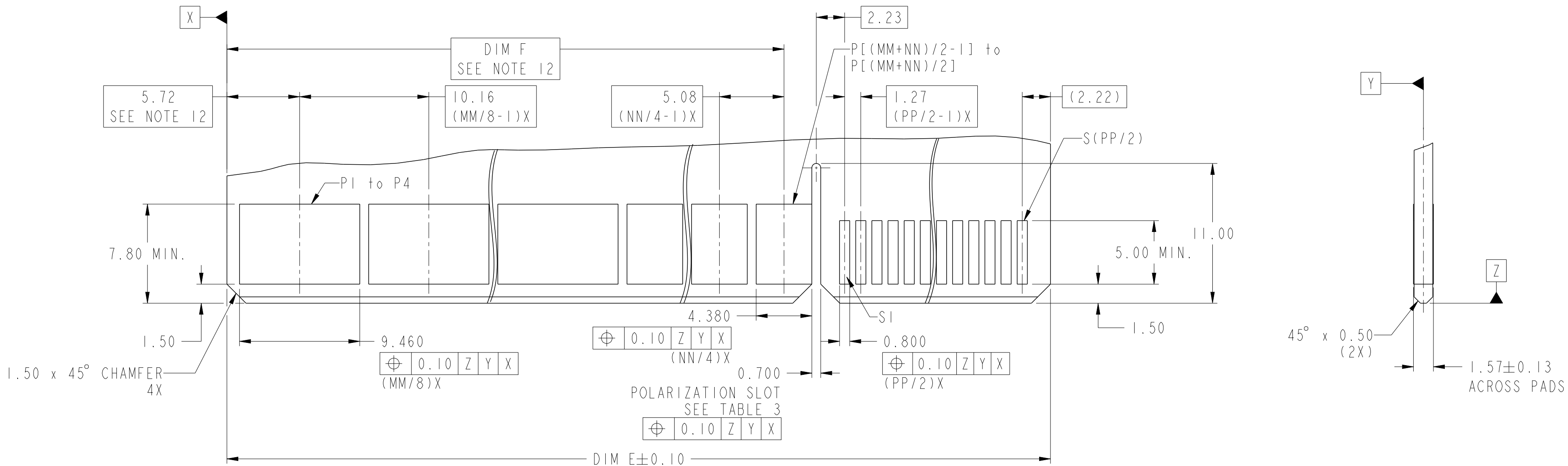
Printed: May 24, 2016

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



RECOMMENDED PCB LAYOUT

spec ref		-		dr	Wei-Long Zhang		2012/08/02		projection		MM		size	A2	scale		4:1				
tolerance std		ISO 406 ISO 1101		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sunny2 Liu		2016/05/06						ecn no		ELX-DG-24036-1				
				chr	Terris Liu		2016/05/20				rel level				Released						
				appr	Pei-Ming Zheng		2016/05/24		product family												
surface		linear		0.X		±0.3		Amphenol FCI		title		R/A RECEPTACLE HIGH POWER CARD EDGE - UNIVERSAL		dwg no		10121510		rev		B	
				0.XX		±0.10															
				0.XXX		±0.05															
ISO 1302		angular		0°		±2°		cat. no.		Product - Customer Drw		sheet 2 of 4									



RECOMMENDED MATING BOARD FOOT PRINT

spec ref		-		dr		Wei-Long Zhang		2012/08/02		projection		MM		size		A2		scale		4:1			
tolerance std		ISO 406		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Sunny2 Liu		2016/05/06						ecn no		ELX-DG-24036-1					
ISO 1101				chr		Terris Liu		2016/05/20		2016/05/24		product family				rel level		Released					
surface		ISO 1302		linear		0.X		±0.3		Amphenol FCI		title		R/A RECEPTACLE		dwg no		10121510		rev		B	
				0.XX		±0.10		HIGH POWER CARD EDGE - UNIVERSAL															
				0.XXX		±0.05																	
		angular		0°		±2°				cat. no.		Product - Customer Drw		sheet 3 of 4									

10121510 - MM NN PP LF

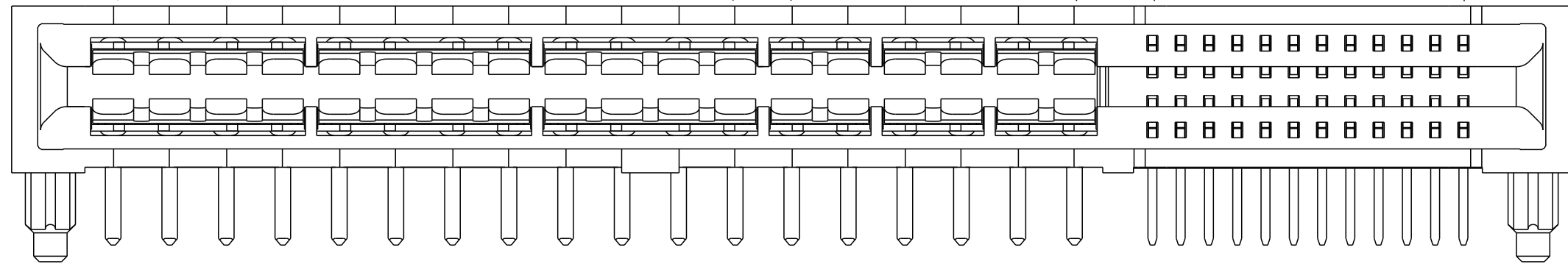
LEAD FREE

	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

4 BEAM PWR QTY
(NEXT TO LEFT END)

2 BEAM PWR QTY
(NEXT TO SIGNAL)

SIGNAL CONTACT QTY



Example: The Configuration above is 10121510-241224ELF
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:

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 ON HOUSING IN AREA SHOWN MEETS AFCI SPECIFICATION: GS-24-007.

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.

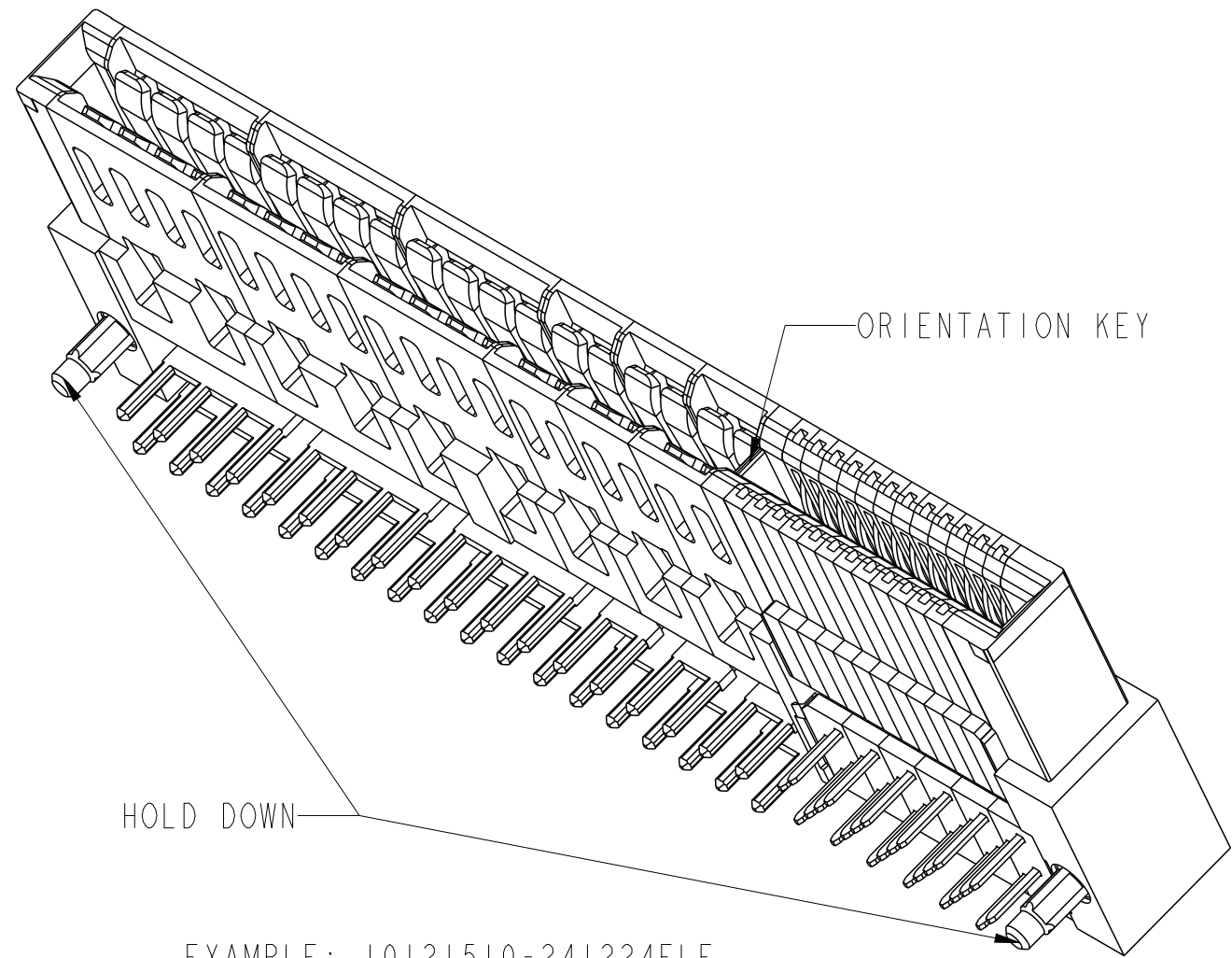
9. ALL HOLE SIZES ARE FINISHED HOLE SIZES.

10. MOUNTING HOLES ARE UNPLATED
Ø 2.18 +/- 0.03 FOR SOLDER TAILS

11. MAXIMUM OVERALL LENGTH IS 100mm.

12. DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT OR 2 BEAM CONTACT.

13. A SYMBOL  WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN
MODIFIED WITH THE CURRENT DRAWING REVISION.



EXAMPLE: 10121510-241224ELF

DIM	TABLE 2: LENGTH FORMULAS
DIM A ①	(MM + NN) / 2 x 2.54 + (PP / 2) x 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 ②	(MM / 8 - 1) x 10.16 + (NN / 4 - 1) x 5.08 + 13.34 (WITH 4 BEAM CONTACT) (NN / 4 - 1) x 5.08 + 3.18 (WITHOUT 4 BEAM CONTACT)
DIM T	2.6 or 3.25

spec ref	-	dr	Wei-Long Zhang	2012/08/02	projection	MM	size	A2	scale	4:1
tolerance std	ISO 406 ISO 1101	eng	Sunny2 Liu	2016/05/06	chr	Terris Liu	2016/05/20	ecn no	ELX-DG-24036-1	
surface	ISO 1302	appr	Pei-Ming Zheng	2016/05/24	product family	R/A RECEPTACLE HIGH POWER CARD EDGE - UNIVERSAL				
TOLERANCES UNLESS OTHERWISE SPECIFIED							rel level	Released	cat. no.	Product - Customer Drw
		linear	0.X	±0.3	Amphenol FCi		dwg no	10121510	rev	B
		angular	0°	±2°			sheet 4 of 4			

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

[10121510-320022ALF](#)

FCI / Amphenol:

<u>10121510-160020ELF</u>	<u>10121510-004812BLF</u>	<u>10121510-002412ELF</u>	<u>10121510-320016ELF</u>	<u>10121510-160020ALF</u>
<u>10121510-320816ELF</u>	<u>10121510-000416BLF</u>	<u>10121510-480020ALF</u>	<u>10121510-004016ALF</u>	<u>10121510-320424ALF</u>
<u>10121510-400016ALF</u>	<u>10121510-320816ALF</u>	<u>10121510-160408ALF</u>	<u>10121510-080024ELF</u>	<u>10121510-000410FLF</u>
<u>10121510-080820ELF</u>	<u>10121510-000812ALF</u>	<u>10121510-080412CLF</u>	<u>10121510-320424FLF</u>	<u>10121510-003624ELF</u>
<u>10121510-241224ELF</u>	<u>10121510-240404ALF</u>	<u>10121510-080820ALF</u>	<u>10121510-320424BLF</u>	<u>10121510-080008ALF</u>
<u>10121510-001612ALF</u>	<u>10121510-320424CLF</u>	<u>10121510-320424GLF</u>	<u>10121510-320424ELF</u>	<u>10121510-004024ELF</u>
<u>10121510-320022ELF</u>				