

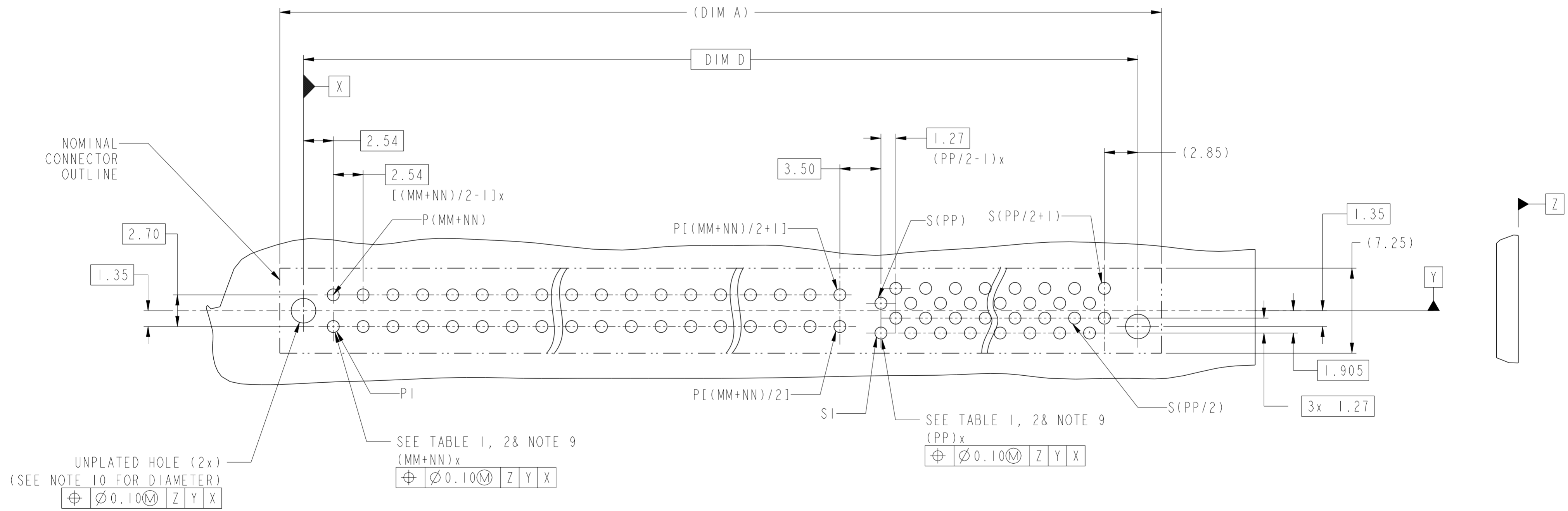
SECTION A-A
SCALE 4:1

SECTION B-B
SCALE 4:1

spec ref	-	dr	Wei-Long Zhang	2012/06/14	projection	MM	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Sunny2 Liu	2016/05/05			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	VERT REC WITH ENHANCED WALLS HIGH POWER CARD EDGE - UNIVERSAL DRAWING		10121505	rev	B
							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 & 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



Amphenol FCI

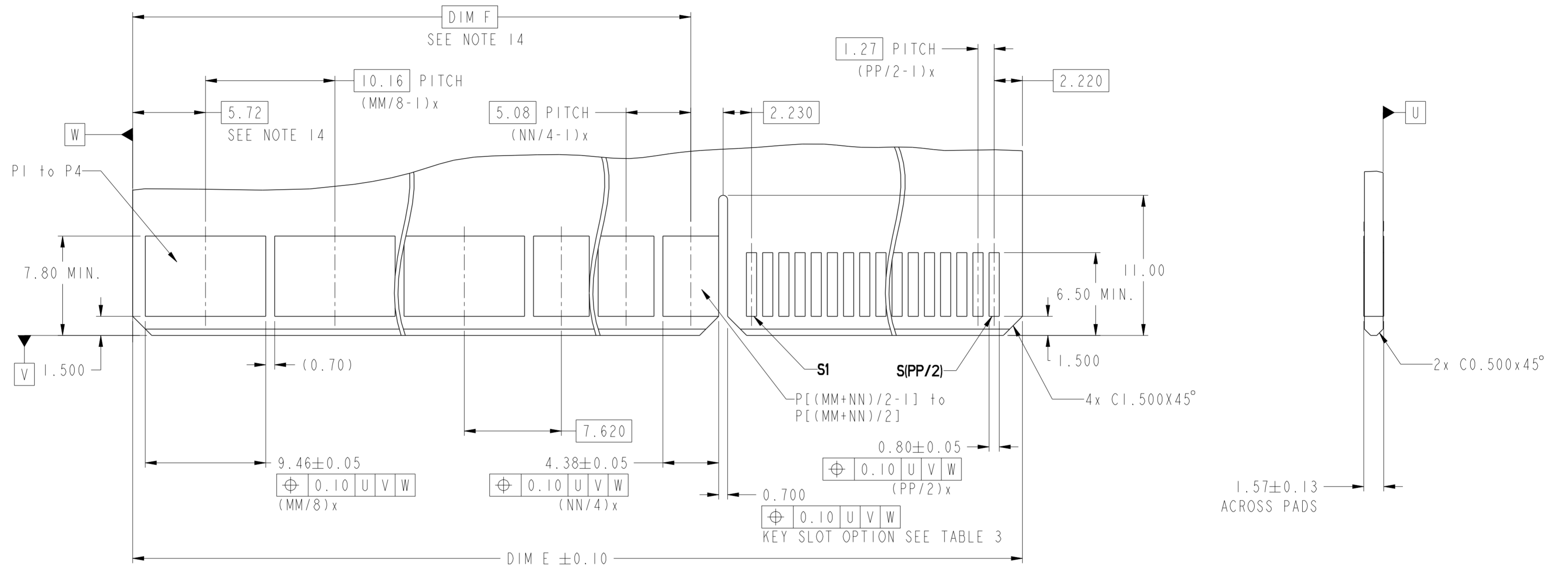
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TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Terris Liu	2016/05/20						
surface	ASME Y14.5	appr	Pai-Ming Zheng	2016/05/24	Amphenol FCI		VERT REC WITH ENHANCED WALLS HIGH POWER CARD EDGE - UNIVERSAL DRAWING		rev	B
		cat. no.		Product - Customer Drw		sheet 2 of 4				

PDS: Rev :B

STATUS:Released

Printed: May 24, 2016



spec ref	-	dr	Wei-Long Zhang	2012/06/14	projection	MM	size	A2	scale	1:1	
tolerance std	ISO 406 ISO 1101	eng	Sunny2 Liu	2016/05/05			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	ASME Y14.5	linear	0.X	±0.5	0.XX	±0.25	0.XXX	±0.10	angular	0°	±2°
Amphenol FCI		VERT REC WITH ENHANCED WALLS		HIGH POWER CARD EDGE - UNIVERSAL DRAWING		10121505		rev		B	
cat. no.		Product - Customer Drw		sheet 3 of 4							

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Amphenol FCI

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10121505 - MM NN PP LF

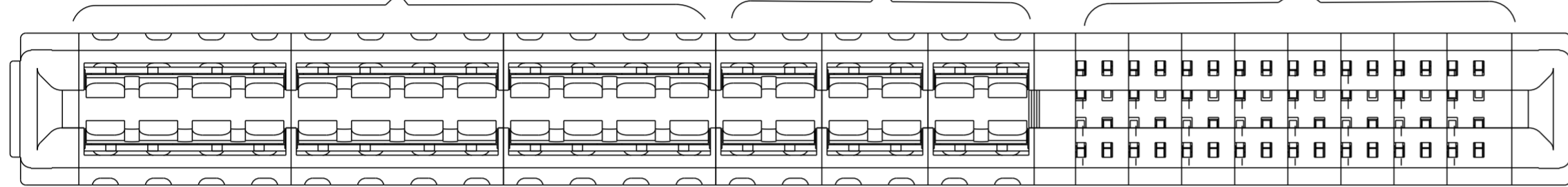
LEAD FREE

	A	B	C	D
Polarization Key Option	Y	Y	N	N
Tail Type Note 12	STB	PF	STB	PF

QUAD PWR BEAM QTY
(NEXT TO LEFT END)

DUAL PWR BEAM QTY
(NEXT TO SIGNAL)

SIGNAL CONTACT QTY



Example: The configuration above is 10121505-241232BLF

VERT Press fit 36P32S with polarization key. 24P is Quad beam contact, 12P is dual beam contact.

TABLE 3. PART NUMBER CODE. HPCE VERT 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
 \varnothing 2.40 +/- 0.1 FOR PRESS-FIT TAILS
 \varnothing 2.18 +/- 0.03 FOR SOLDER TAILS

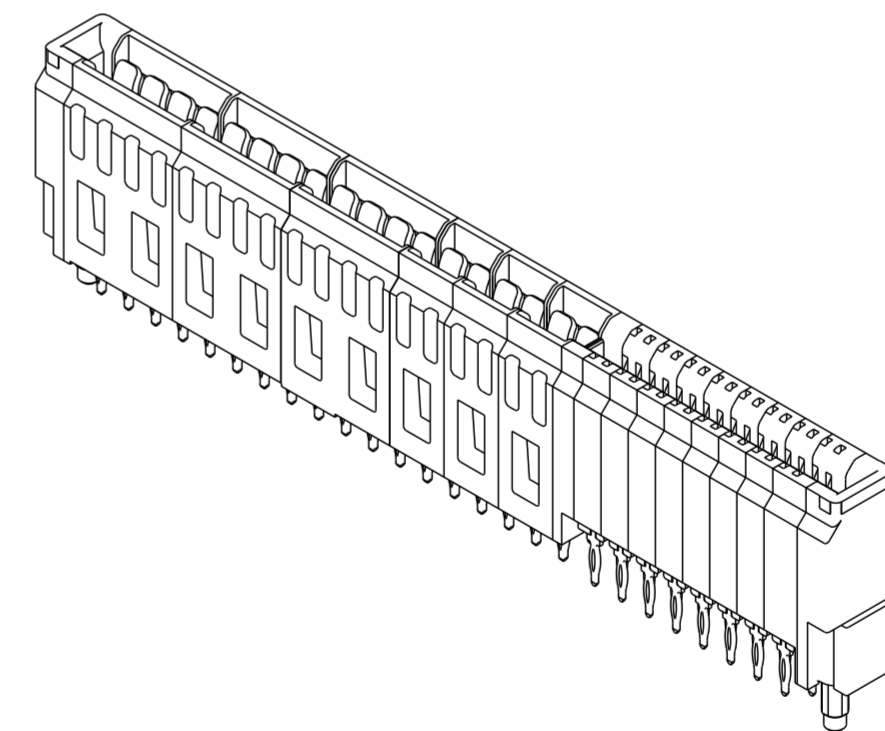
11. PRESS FIT APPLICATION TOOL DRAWING : 10119453.

12. STB= Solder to board, 1.57-2.38mm PCB thickness.
PF = Press fit, 1.57mm minimum PCB thickness.

13. MAXIMUM OVERALL LENGTH IS 100mm.

14. 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	$(13) (MM/8) \times 10.16 + (NN/4) \times 5.08 + (PP/2) \times 1.27 + 9.12$
DIM B	DIM "A" - 5.00
DIM C	DIM "A" - 0.94
DIM D	DIM "A" - 4.04
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)
	3.18 (WITHOUT 4 BEAM CONTACT)



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surface	linear	ASME Y14.5	angular	0°	±2°	Amphenol FCI	HIGH POWER CARD EDGE - UNIVERSAL DRAWING		cat. no.	Product - Customer Drw	sheet 4 of 4

Mouser Electronics

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[FCI / Amphenol:](#)

[10121505-240824BLF](#) [10121505-321644ALF](#) [10121505-160012BLF](#) [10121505-160024CLF](#) [10121505-080820BLF](#)