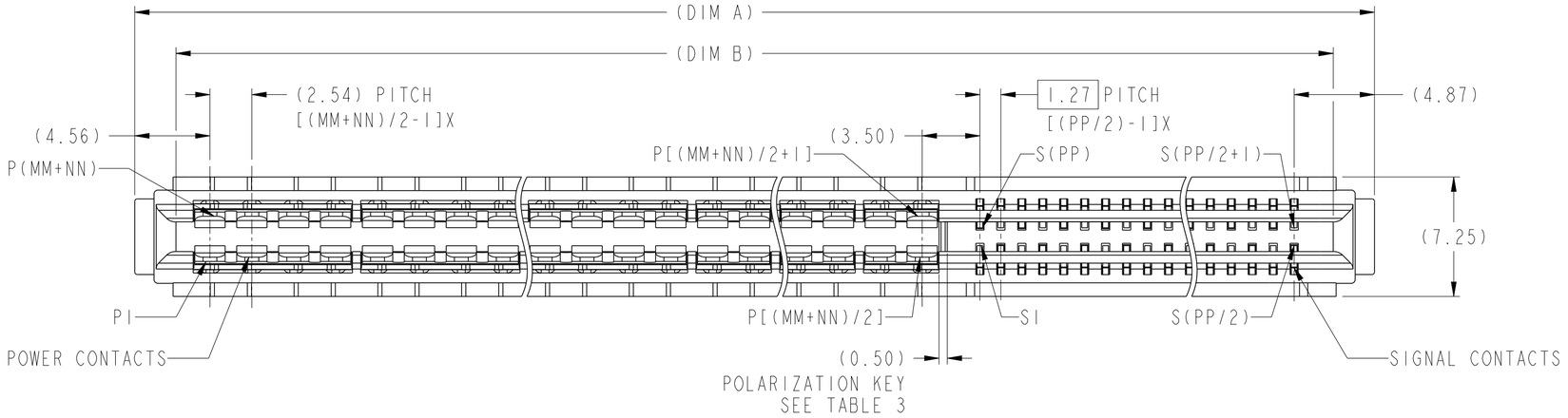
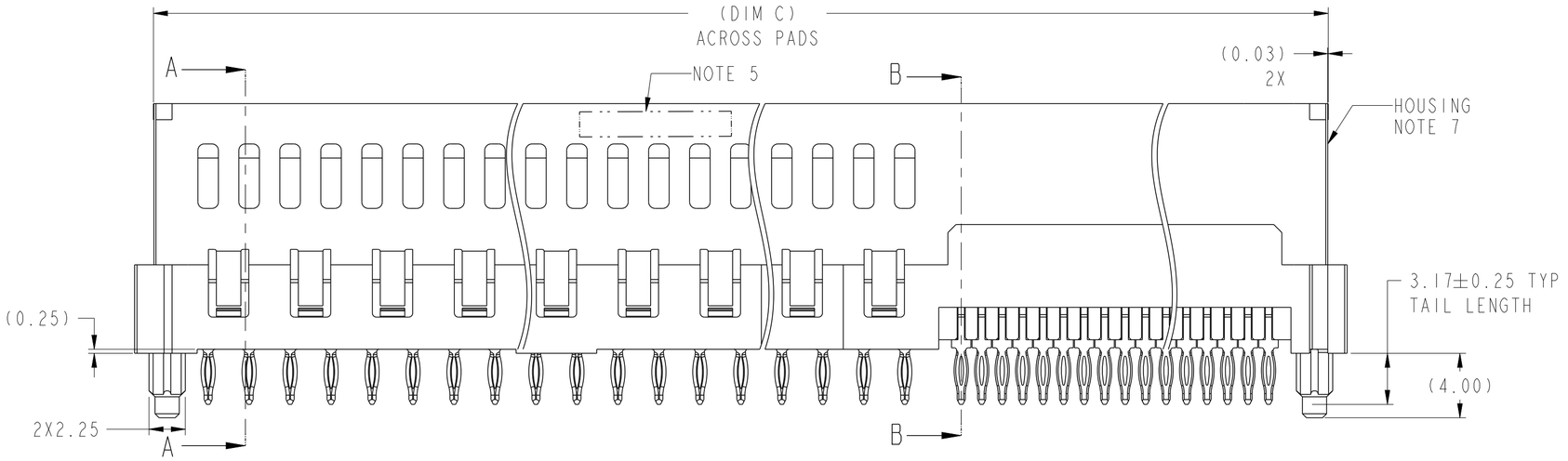
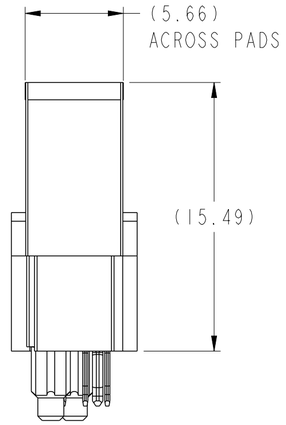
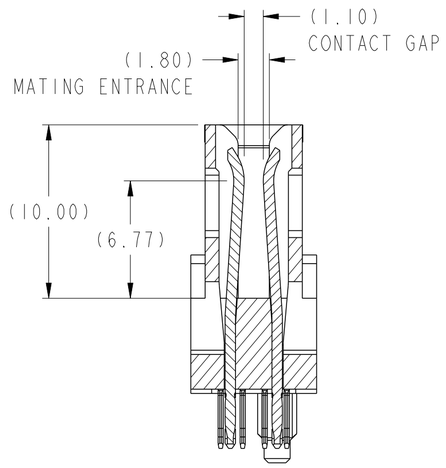
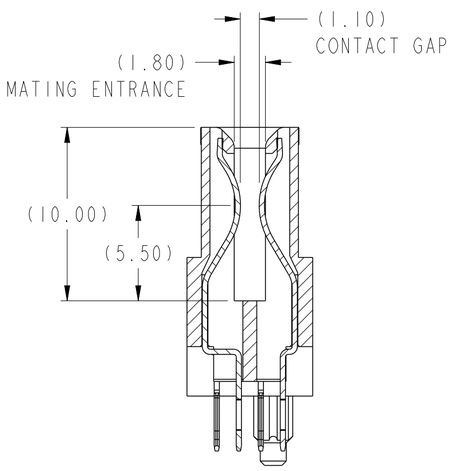








SECTION A-A
SCALE 4:1



SECTION B-B
SCALE 4:1

spec ref	-			dr	Wei-Long Zhang	2012/07/05	Amphenol Power Solutions
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Laven Wang	2025/04/22	MM / scale 1:1 / size A2
				rvwr	-	-	ecn no ELX-DG-S5243-1
				appr	Zheng, Pei-Min	2025/05/16	A Division of Amphenol Corporation amphenol-icc.com / rel level Released
surface ISO 1302	linear	0.X	±0.3	projection		title	STD VERT REC UNIVERSAL HIGH POWER CARD EDGE	dwg no 10121506	rev D
		0.XX	±0.10					cat. no.	
		0.XXX	±0.05				product family Product - Customer Drw	sheet 1 of 4	
	angular	0°	±2°						

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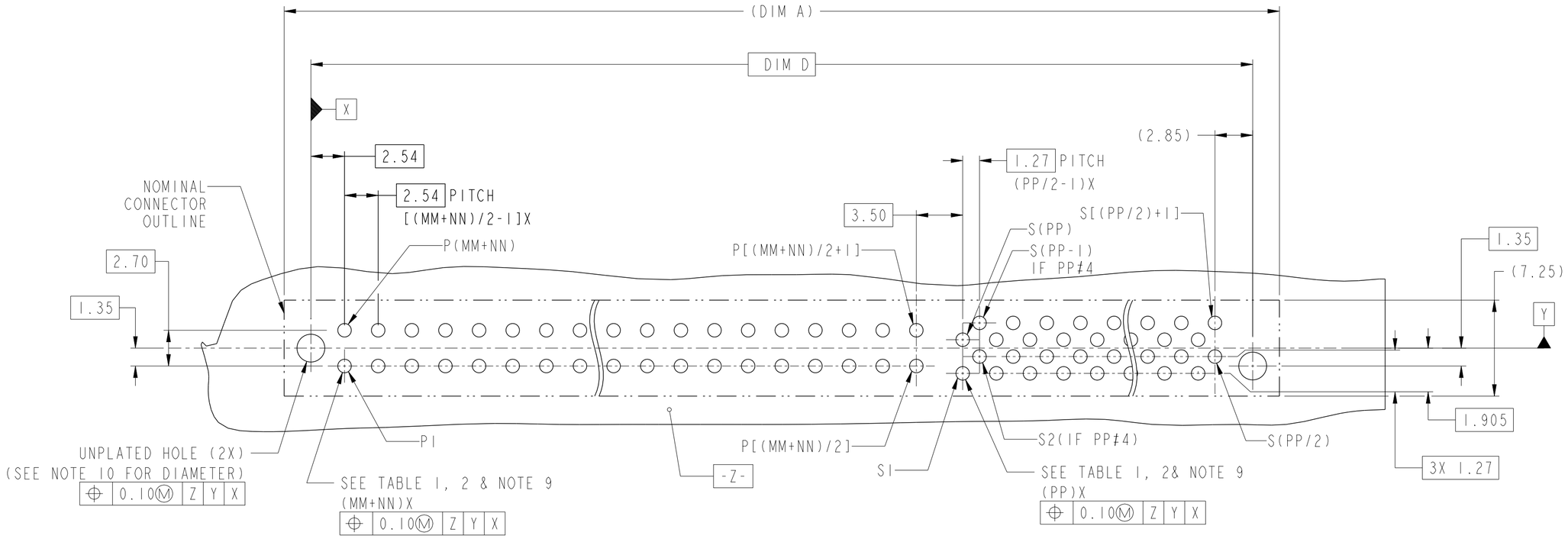
PDS: Rev :D STATUS: Released Printed: May 16, 2025

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



spec ref	-	dr	Wei-Long Zhang	2012/07/05	Amphenol Power Solutions
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Laven Wang	2025/04/22	MM
		rvwr	-	-	scale 1:1 size A2
		appr	Zheng, Pei-Min	2025/05/16	A Division of Amphenol Corporation amphenol-icc.com
					ecn no ELX-DG-S5243-1
					rel level Released

surface ISO 1302	linear	0.X	±0.3	projection	title STD VERT REC UNIVERSAL HIGH POWER CARD EDGE	dwg no 10121506 rev D
		0.XX	±0.10			cat. no.
		0.XXX	±0.05			
	angular	0°	±2°		product family Product - Customer Drw	sheet 2 of 4

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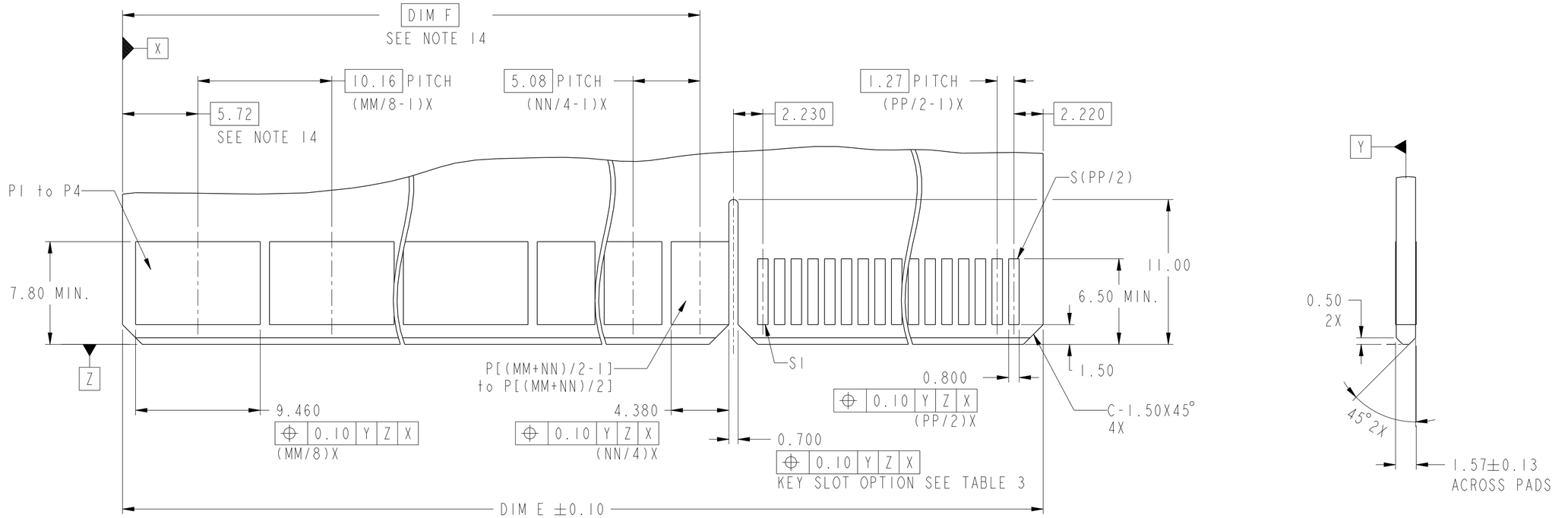
PDS: Rev :D STATUS: Released Printed: May 16, 2025

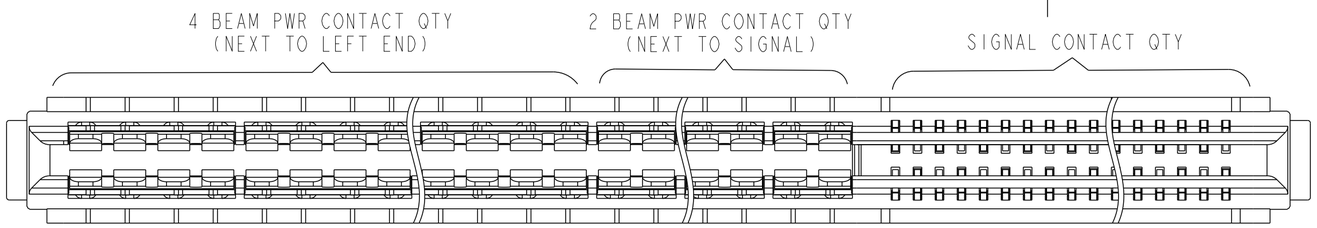


spec ref	-		dr	Wei-Long Zhang	2012/07/05	Amphenol Power Solutions	MM / scale 1:1 / size A2
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Laven Wang	2025/04/22		ecn no ELX-DG-55243-1
			rvwr	-	-		
			appr	Zheng, Pei-Min	2025/05/16	A Division of Amphenol Corporation amphenol-icc.com	rel level Released
surface ISO 1302	linear	0.X ±0.3	projection		title	STD VERT REC UNIVERSAL HIGH POWER CARD EDGE	dwg no 10121506 rev D
		0.XX ±0.10					cat. no.
		0.XXX ±0.05					
	angular	0° ±2°			product family	Product - Customer Drw	sheet 3 of 4

10121506 - MM NN PP _ LF

LEAD FREE

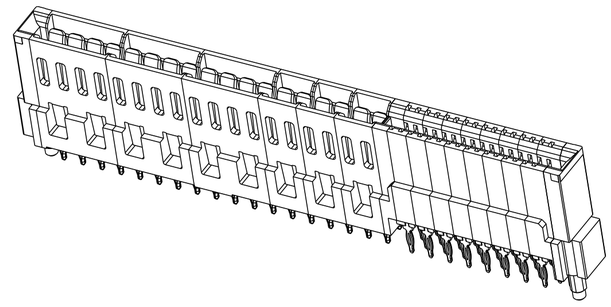
	A	B	C	D
Polarization Key Option	Y	Y	N	N
Tail Type Note 12	STB	PF	STB	PF



Example: The configuration above is 10121506-241232BLF
STD VERT REC 36P32S with polarization key.
24P is 4 beam contact, 12P is 2 beam contact.

TABLE 3. PART NUMBER CODE. HPCE STD VERT REC P+S CONFIG

DIM	TABLE 2. LENGTH FORMULAS.
DIM A (13)	(MM/8)X10.16+ (NN/4)X5.08 + (PP/2)X1.27 + 9.12
DIM B	DIM "A" - 5.00
DIM C	DIM "A" - 2.34
DIM D	DIM "A" - 4.04
DIM E	DIM "A" - 5.30
DIM F (14)	(MM/8-1)X10.16 + (NN/4-1)X5.08 + 13.34 (WITH 4 BEAM CONTACT)
	(NN/4-1)x5.08+3.18 (WITHOUT 4 BEAM CONTACT) △D



EXAMPLE: 10121506-241232BLF

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
    - ∅ 2.40 +/- 0.1 FOR PRESS-FIT TAILS
    - ∅ 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. DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT OR 2 BEAM CONTACT.
15. A △D SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

spec ref	-		dr	Wei-Long Zhang	2012/07/05	Amphenol Power Solutions	MM / scale 1:1 / size A2
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Laven Wang	2025/04/22		ecn no ELX-DG-55243-1
			rvwr	-	-		
			appr	Zheng, Pei-Min	2025/05/16	A Division of Amphenol Corporation amphenol-icc.com	rel level Released
surface ISO 1302	linear	0.X ±0.3	projection		title	STD VERT REC UNIVERSAL HIGH POWER CARD EDGE	dwg no 10121506 / rev D
		0.XX ±0.10					cat. no.
		0.XXX ±0.05					
	angular	0° ±2°				product family: Product - Customer Drw	sheet 4 of 4

Creo File:APH-PWR-A2C_REV B_2021-05-07

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