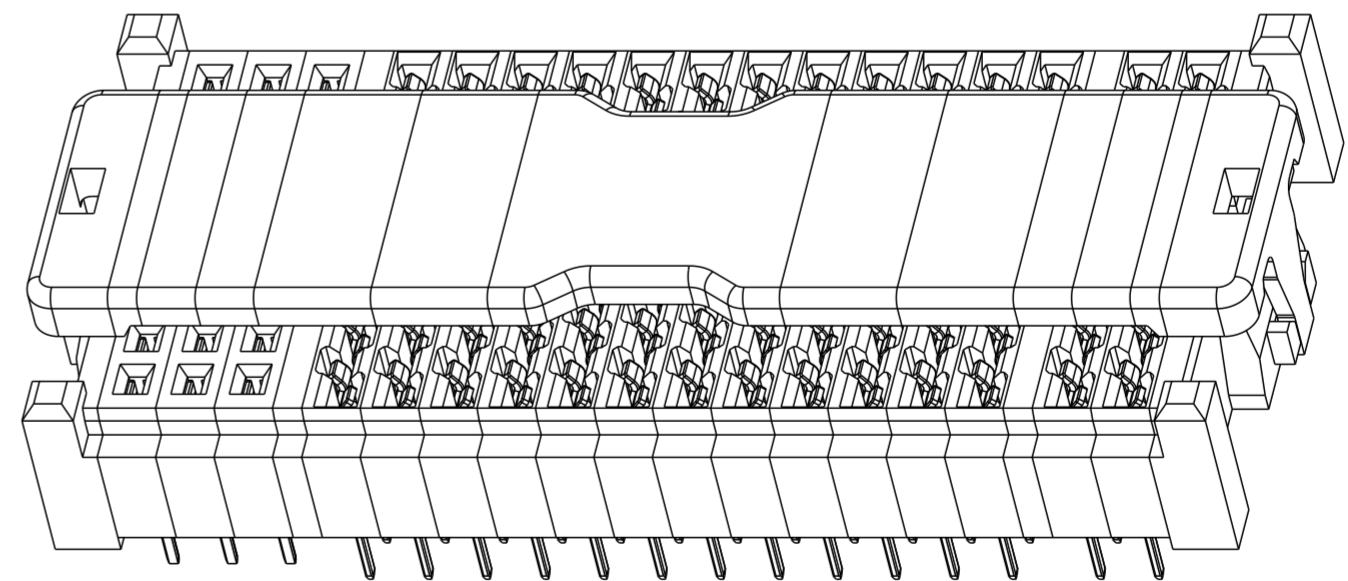
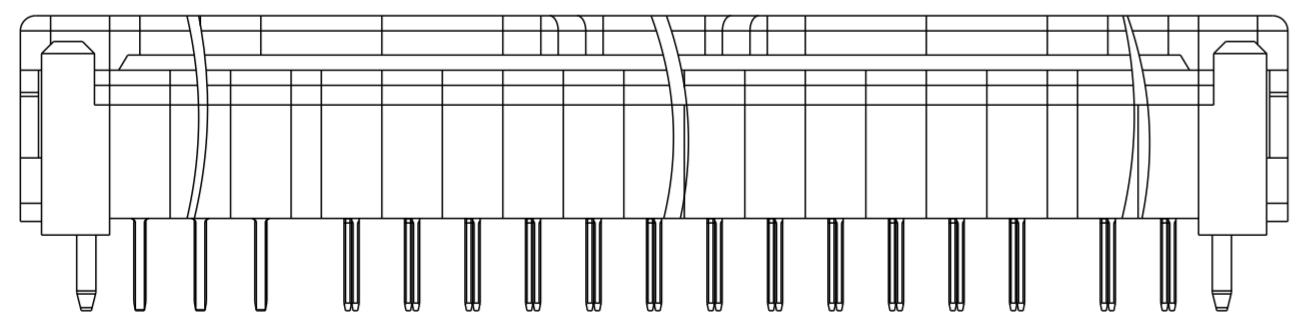
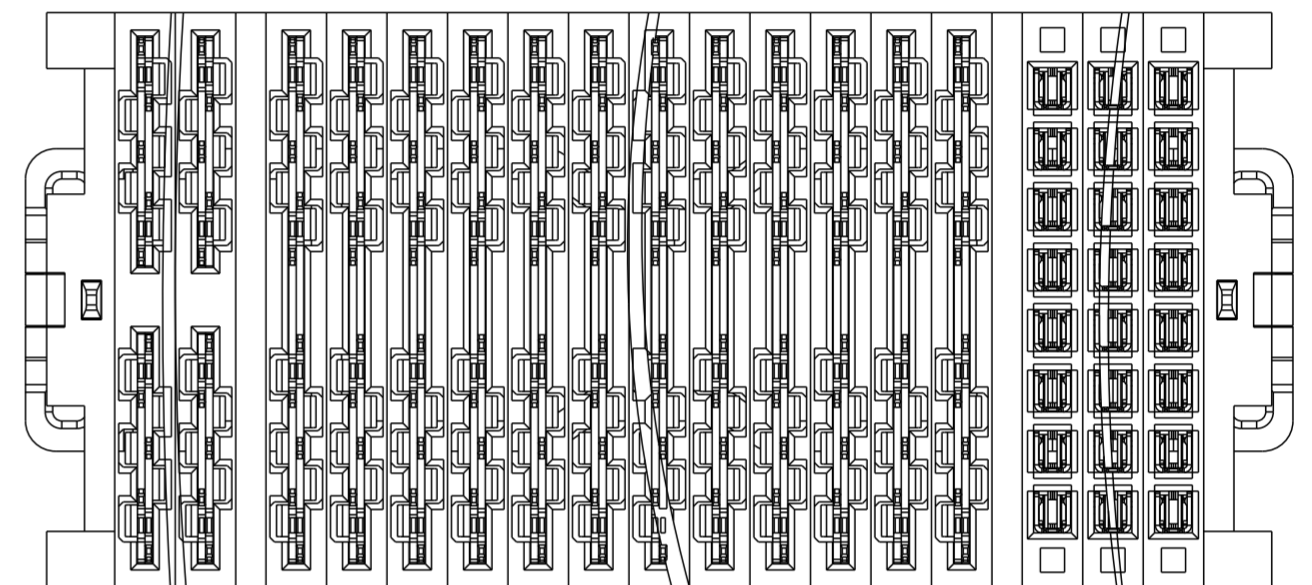
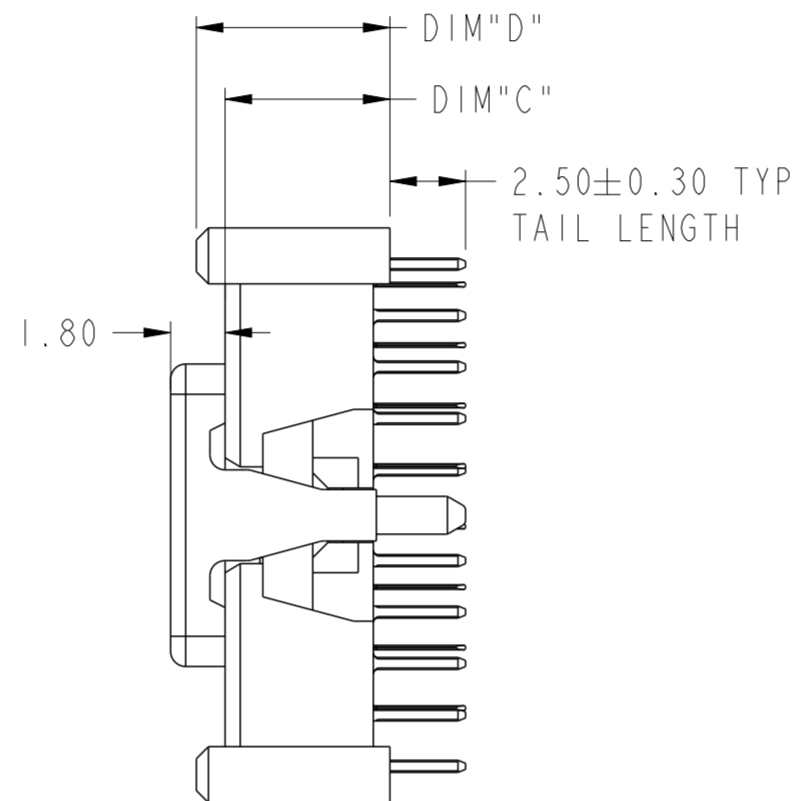
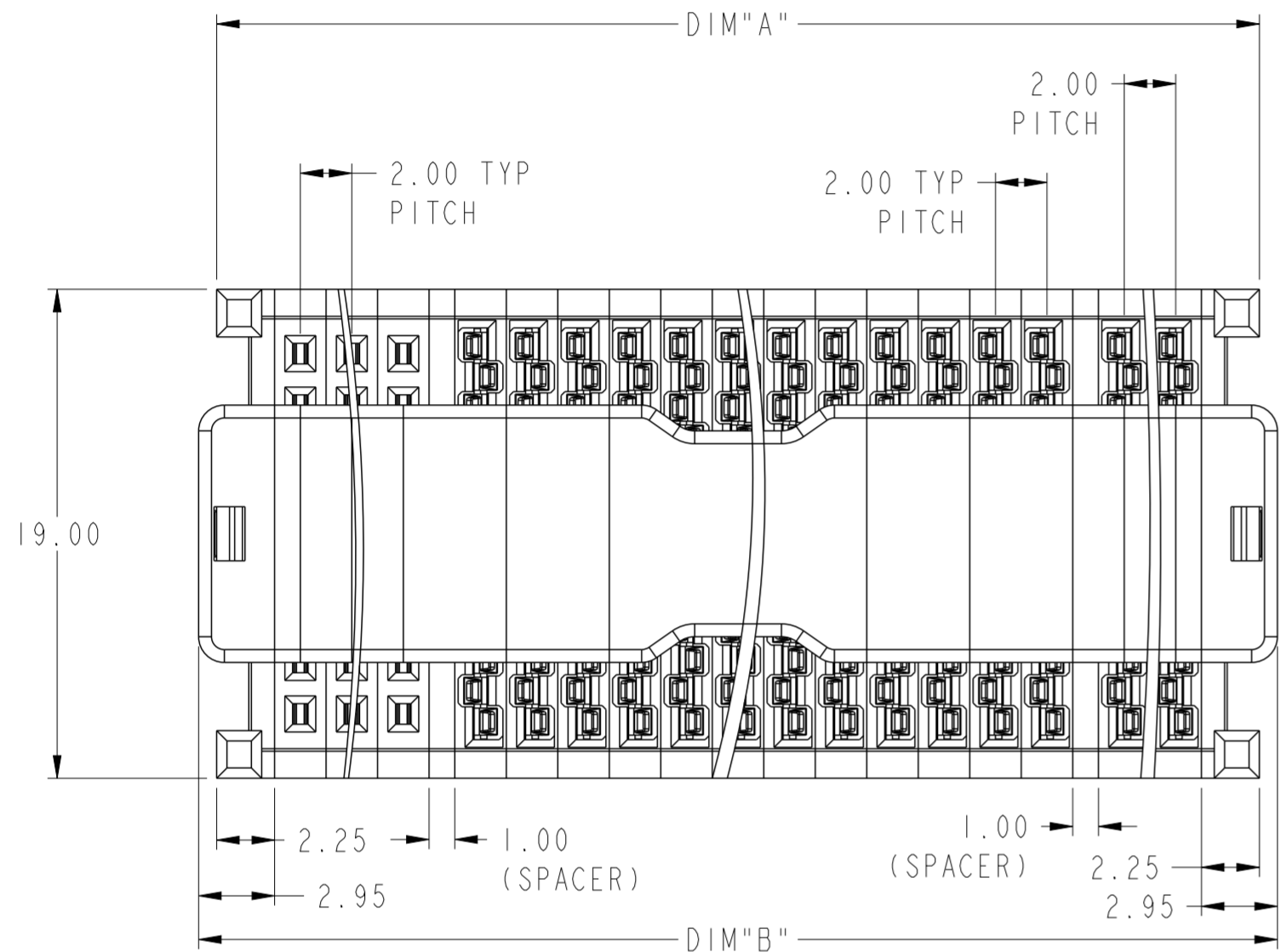


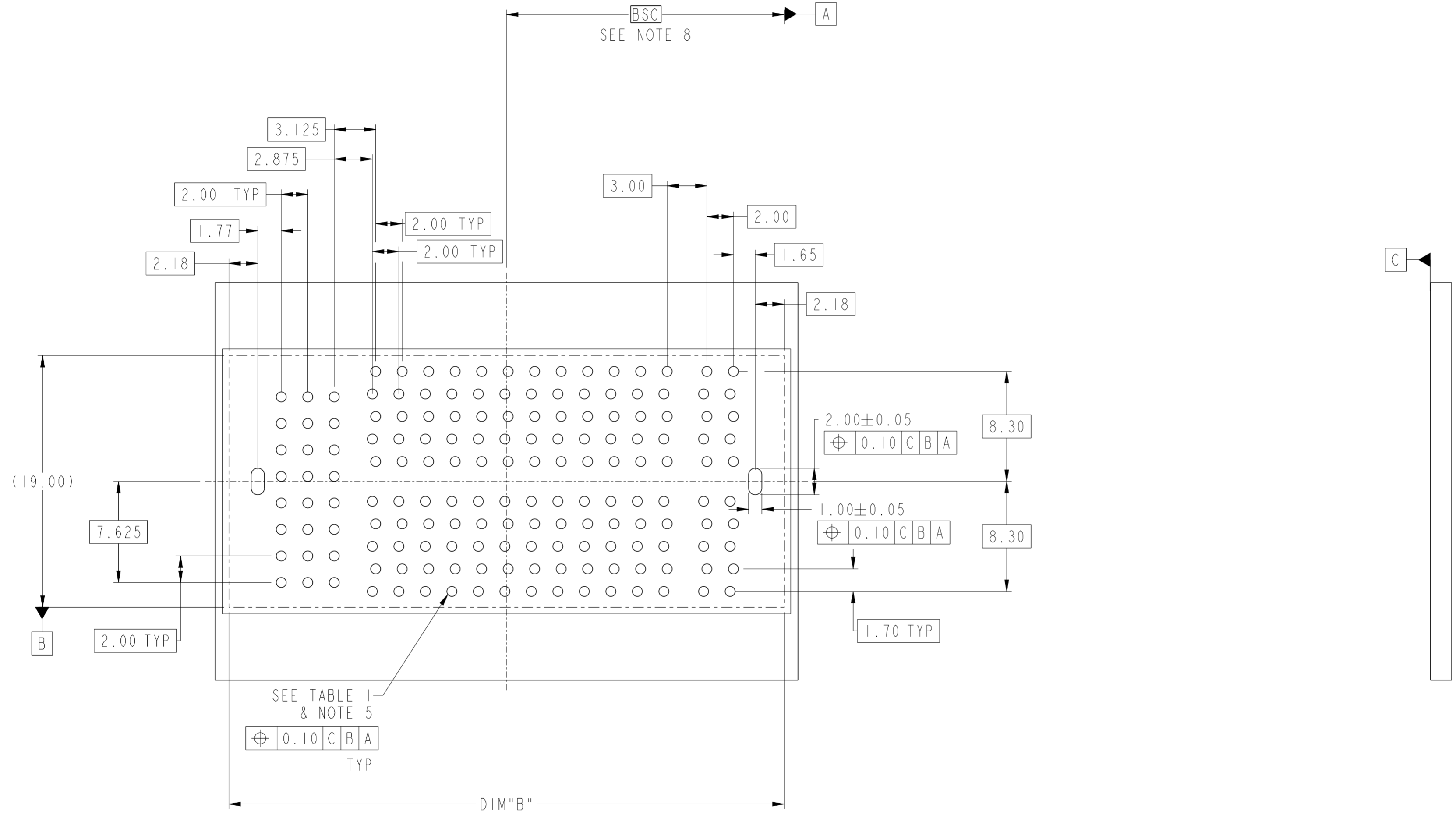
NOTE 3



spec ref	*	dr	Zhi-Jun He	2022/04/27	Amphenol Power Solutions A Division of Amphenol Corporation amphenol-hcc.com	MM	scale	2:1	size	A2	
tolerance std	ISO 406 ISO 1101	eng	Zhi-Jun He	2022/11/22		ecn no	-	rel level	Released		
surface	linear	0.X	±0.5	projection			title PB MINI MEZZ RECEPTACLE UNIVERSAL DRAWING	dig no	10159578	rev	A
		0.XX	±0.25					cat. no.	-		
	0.XXX	±0.100	appr	Zheng-Pei-Min	2022/11/22	product family	Product - Customer Drw	sheet 1 of 4			
	angular	0°									

TABLE 1 (PB MINI MEZZ POWER & SIGNAL)
PLATED THROUGH-HOLE REQUIREMENTS

TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
IMMERSION TIN	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	0.9 - 1.5um	--	0.70 - 0.80
IMMERSION SILVER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	0.15 - 0.65um	0.70 - 0.80
COPPER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	--	0.70 - 0.80
GOLD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	0.003 - 0.007	FLASH UP TO 0.0002	--	--	0.69 - 0.80



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTE 4

Amphenol
Power Solutions

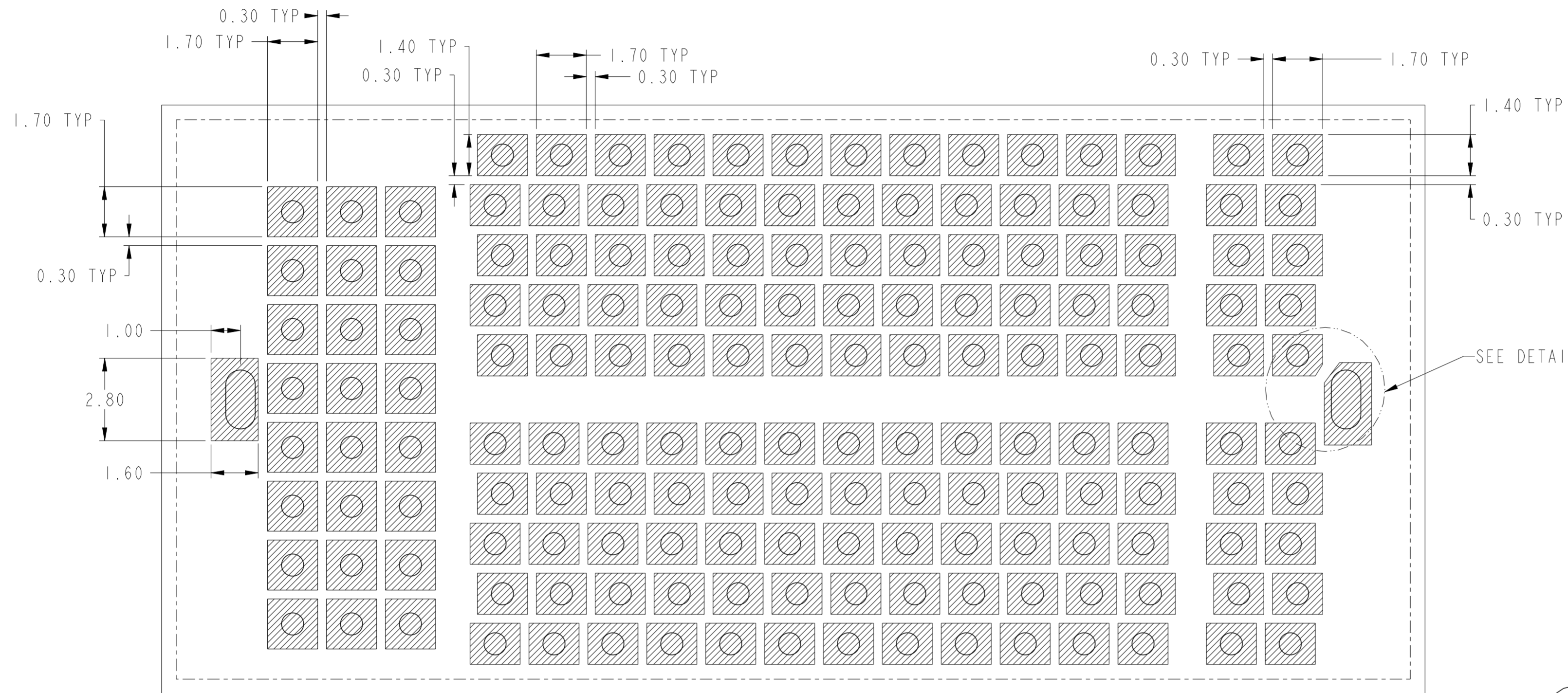
© 2021 Amphenol Corporation

spec ref	*	dr	Zhi-Jun He	2022/04/27	Amphenol Power Solutions A Division of Amphenol Corporation amphenol-hcc.com	MM	scale	4:1	size	A2
tolerance std	ISO 406 ISO 1101	eng	Zhi-Jun He	2022/11/22		ecn no	-	rel level	Released	
surface	ISO 1302	fwvr	-	-		cat. no.	10159578	rev	A	
		appr	Zheng, Pei-Min	2022/11/22	product family	PB MINI MEZZ RECEPTACLE	Product - Customer Drw	sheet 2 of 4		

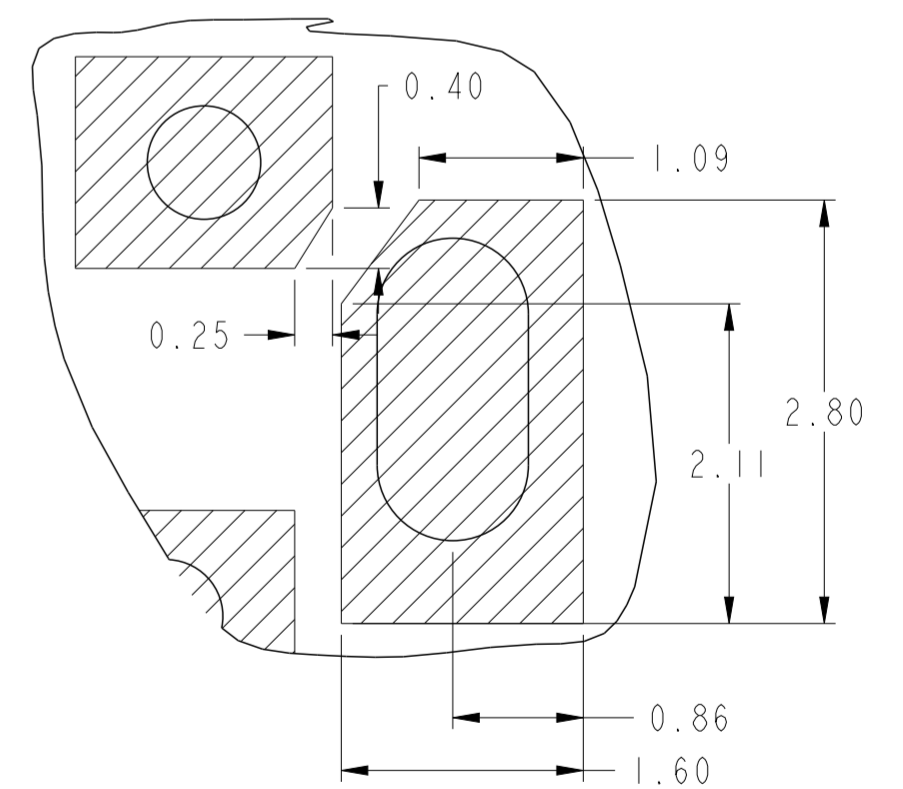
PDS: Rev :A

STATUS:Released

Printed: Nov 22, 2022

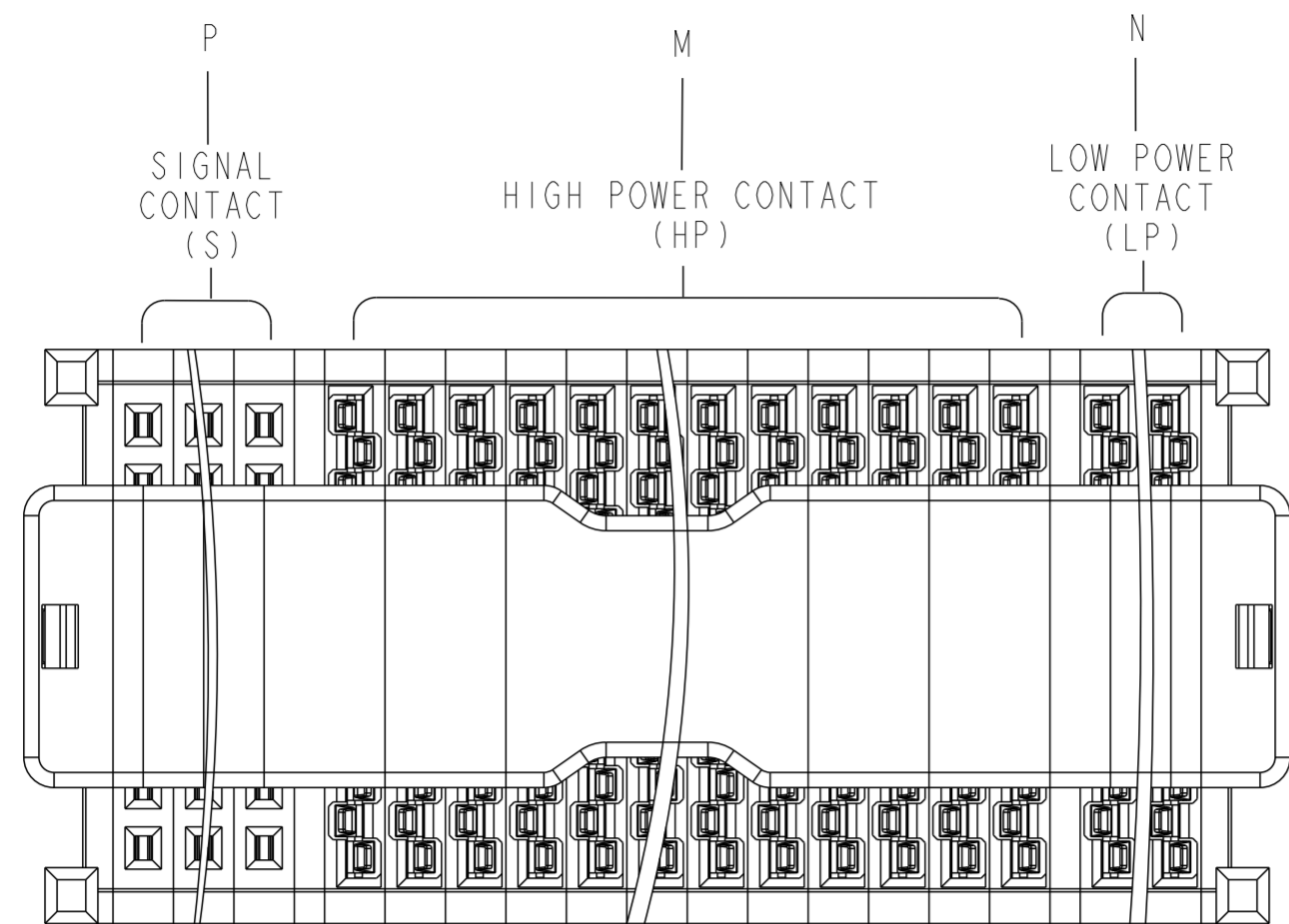


RECOMMENDED STENCIL LAYOUT FOR PIP
TOLERANCE : $\pm 0.05\text{MM}$
STENCIL THICKNESS : 0.25MM



DETAIL A
SCALE 20:1

spec ref	*	dr	Zhi-Jun He	2022/04/27	Amphenol Power Solutions A Division of Amphenol Corporation amphenol-hcc.com	MM	scale	size
tolerance std	ISO 406 ISO 1101	eng	Zhi-Jun He	2022/11/22		ecn no	2:1	A2
TOLERANCES UNLESS OTHERWISE SPECIFIED		r w r	-	-		rel level	Released	
surface	ISO 1302	appr	Zheng-Pei-Min	2022/11/22	product family	PB MINI MEZZ RECEPTACLE	cat. no.	10159578
	linear	0.X	± 0.5	projection	UNIVERSAL DRAWING	rev		A
		0.XX	± 0.25		Product - Customer Drw	sheet 3 of 4		
	angular	0°	$\pm 2^\circ$					



10159578 - M N P Q 0 00 - LF

COLUMN QUANTITIES OF HIGH POWER CONTACT (1HP/COLUMN)
 COLUMN QUANTITIES OF LOW POWER CONTACT (2LP/COLUMN)
 COLUMN QUANTITIES OF SIGNAL CONTACT (8S/COLUMN)

LEAD FREE
 SERIAL NUMBER
 RESERVED CODE

DIM"C" = MATING HEIGHT:
 1=5.50mm
 2=7.50mm
 3=9.50mm
 4=11.50mm

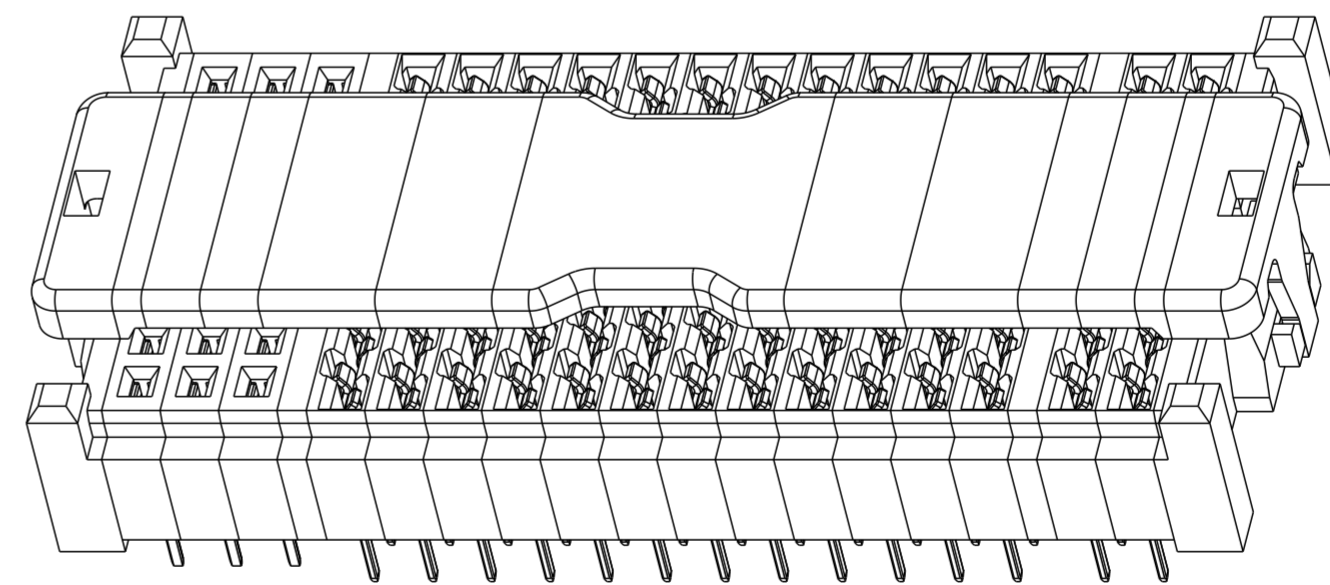
Example: The configuration above is 10159578-C231000LF
 Std PB MINI MEZZ Vertical Receptacle 12HP4LP24S.
 C is 12HP(12column*1HP), 2 is 4LP(2column*2LP),
 3 is 24S(3column*8S), 1 is 5.50mm mating height.
 M & N & P from 1.2.**.8.9.A.B.**.X.Y Etc.(Removed letter I.O.Q.Z)

DIM"A"	2.25 + 2*N + 1(SPACER) + 2*M + 1(SPACER) + 2*P + 2.25			
DIM"B"	2.95 + 2*N + 1(SPACER) + 2*M + 1(SPACER) + 2*P + 2.95			
DIM"C"	5.50	7.50	9.50	11.50
DIM"D"	6.40	9.25	11.25	13.25
SPACERS ARE USED WHEN TWO OR THREE DIFFERENT MODULES ARE CHOSED MODULE MEANS HP & LP & SIGNAL				

TABLE 3: PART NUMBER CODE. PB MINI MEZZ VERTICAL RECEPTACLE HP+LP+S CONFIG

NOTES:

- MATERIALS:
 HOUSING: HIGH TEMP THERMOPLASTIC WITH GLASS FIBER, UL94V-0, BLACK.
 POWER CONTACTS: HIGH PERFORMANCE COPPER ALLOY.
 SIGNAL CONTACTS: COPPER ALLOY.
- CONTACT FINISH REFER SECTION 5.3 IN PRODUCT SPECIFICATION.
- PRODUCT MARK:
 PART NUMBER AND DATE CODE TO BE MARKED ON THIS SURFACE.
 THE MARK CAN BE OMITTED IF THERE IS NOT ENOUGH SPACE ON THIS SURFACE.
- RECOMMEND PCB THICKNESS FOR PIP PROCESS : 1.60mm.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- DATUM AND BASIC DIMENSIONS ARE ESTABLISHED BY CUSTOMER.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- PRODUCT SPECIFICATION: GS-12-1682.
 APPLICATION SPECIFICATION: GS-20-0686.
 PACKAGE SPECIFICATION: GS-14-2851.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION.
- MAXIMUM OVERALL LENGTH IS 80 mm



spec ref *	dr Zhi-Jun He 2022/04/27	Amphenol Power Solutions A Division of Amphenol Corporation amphenol-hcc.com	MM	scale 1:1	size A2
tolerance std ISO 406 ISO 1101	eng Zhi-Jun He 2022/11/22		ecn no -	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED	r wvr - appr Zheng, Pei-Min 2022/11/22		cat. no. 10159578	rev A	sheet 4 of 4
surface	linear 0.X ±0.5 0.XX ±0.25 0.XXX ±0.100	projection	TITLE PB MINI MEZZ RECEPTACLE UNIVERSAL DRAWING product family Product - Customer Drw		