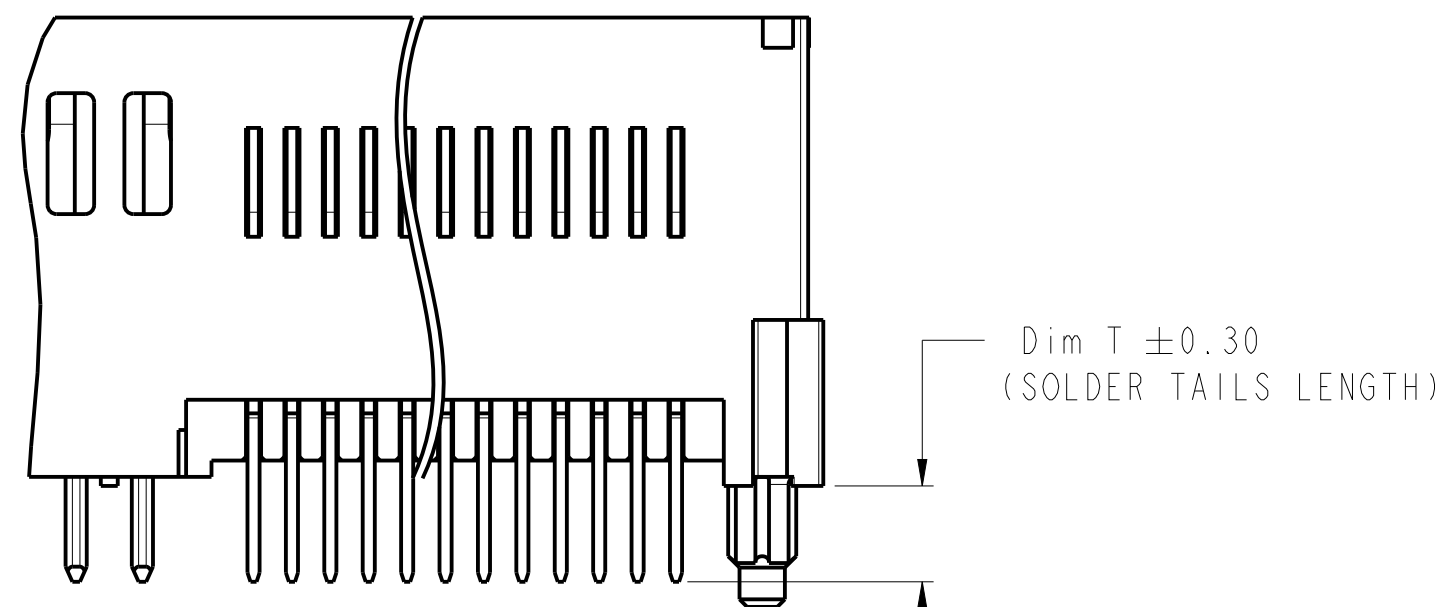
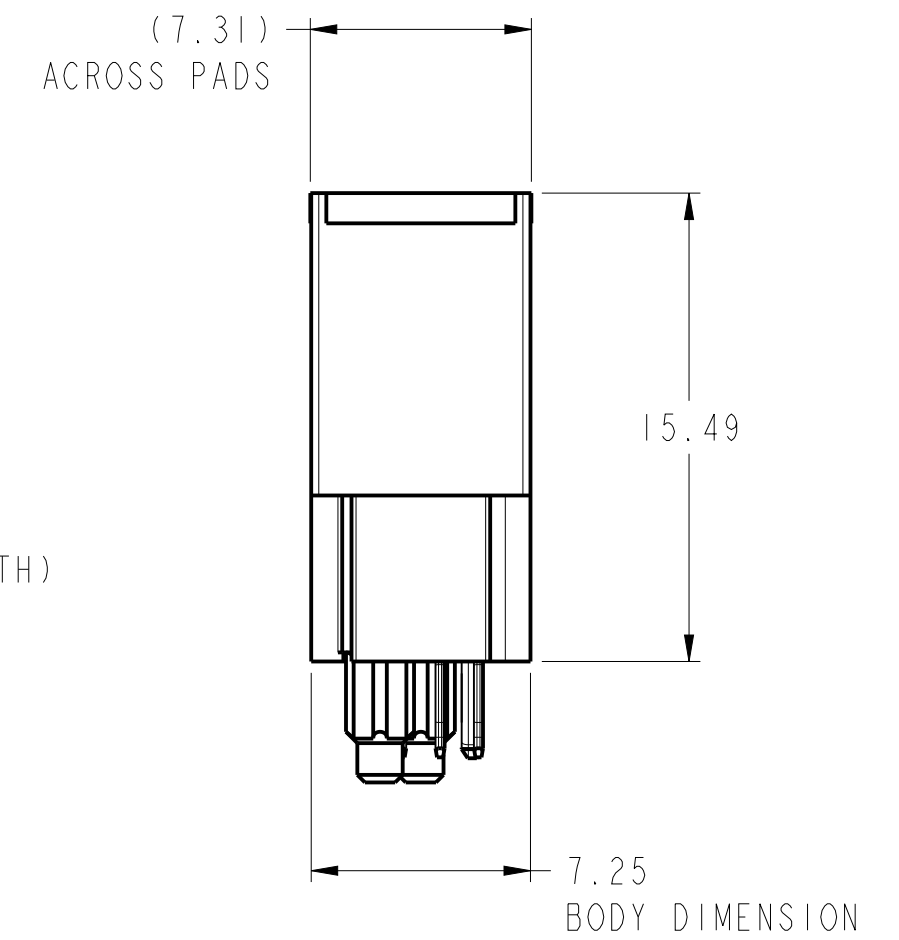
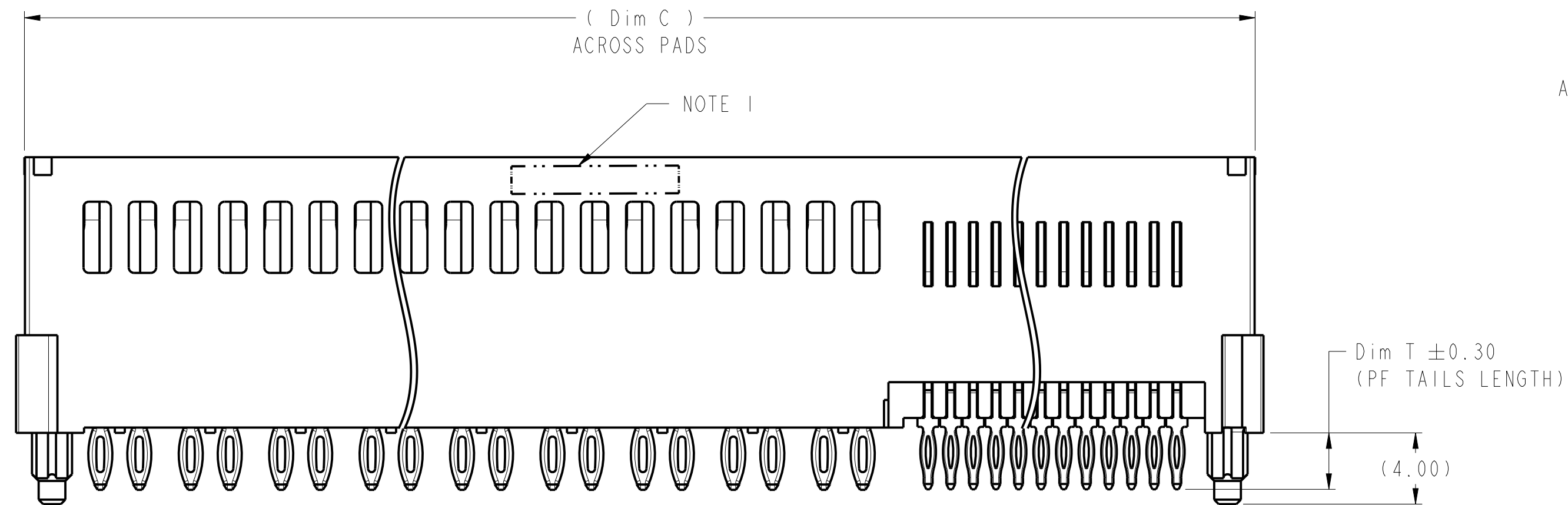
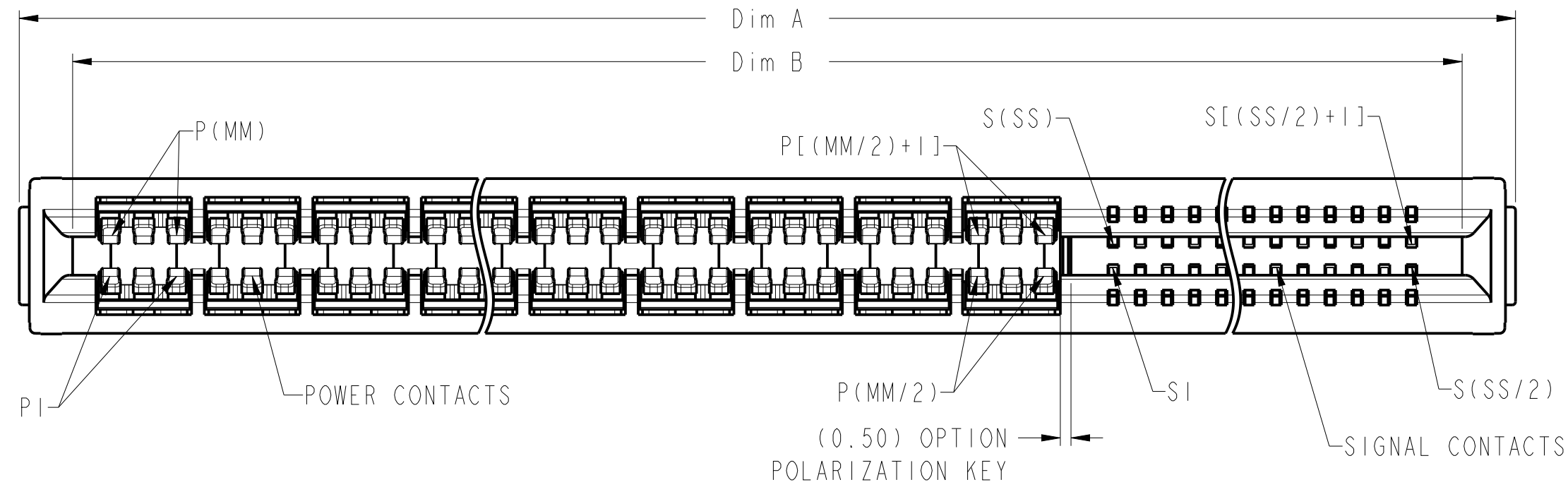
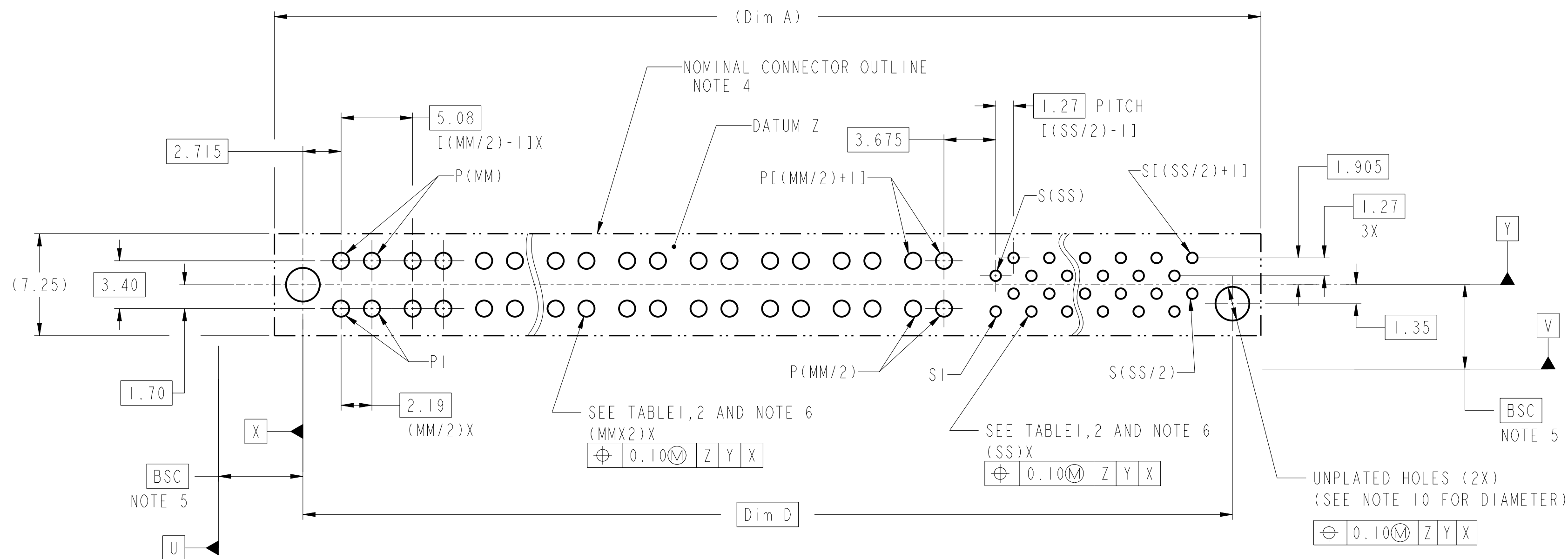


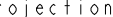


spec ref		-		dr		Andy Lu		2017-10-24		projection		MM		size		A2		scale		5:1	
tolerance std		ISO 406		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Lu		2017-10-24						ecn no					
ISO 1101						chr		Fancy Zhong		2017-10-24						rel level		In Work			
						appr		Pei-Ming Zheng		2017-10-24		product family									
surface		ISO 1302		linear		0.X		±0.5		Amphenol FCI		title		eHPCE VERTICAL RECEPTACLE		dwg no		10140903		rev	
						0.XX		±0.25				+file		UNIVERSAL DRAWING, MP+S CONFIGURATION						7	
						0.XXX		±0.10													
				angular		0°		±2°				cat. no.		Product - Customer Drw				sheet 1 of 4			

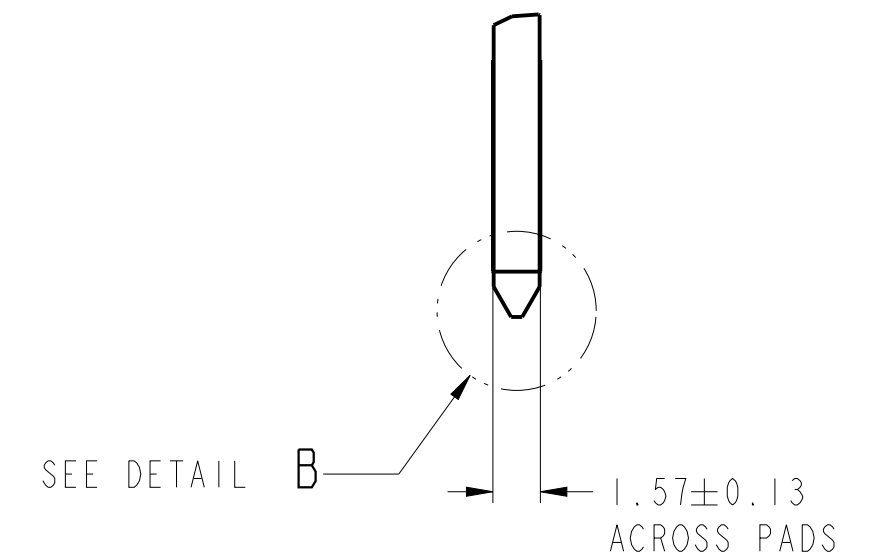
1	2	3	4	5	6	7	8
CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 1 (eHPCE / PRESS-FIT TAILS) PLATED THROUGH-HOLE REQUIREMENTS					
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER	
SIGNAL	IMMERSION TIN	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.70 - 0.80	
	COPPER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80	
POWER	IMMERSION TIN	1.21-1.26 (1.25 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	1.10 - 1.20	
	COPPER	1.21-1.26 (1.25 DRILL)	0.025 - 0.050	--	--	1.10 - 1.20	
CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 2 (eHPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS					
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER	
SIGNAL	IMMERSION TIN	0.96-1.01 (1.00 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.85 - 0.95	
	COPPER	0.96-1.01 (1.00 DRILL)	0.025 - 0.050	--	--	0.85 - 0.95	
POWER	IMMERSION TIN	1.21-1.26 (1.25 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	1.10 - 1.20	
	COPPER	1.21-1.26 (1.25 DRILL)	0.025 - 0.050	--	--	1.10 - 1.20	



RECOMMENDED HOST BOARD LAYOUT
(DIMENSION TOLERANCE IS $\pm 0.05\text{mm}$)

spec ref		-	dr		Andy Lu	2017-10-24			size	A2	scale	5:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED	eng		Andy Lu	2017-10-24			ecn no				
ISO 406			chr		Fancy Zhong	2017-10-24			rel level				
ISO 1101			appr		Pei-Ming Zhong	2017-10-24			In Work				
surface			linear	0.X	±0.5	Amphenol FCI	eHPCE VERTICAL RECEPTACLE UNIVERSAL DRAWING,MP+S CONFIGURATION		dwg no	10140903		rev	7
				0.XX	±0.25								
				0.XXX	±0.10								
ISO 1302			angular	0°	±2°	cat. no.		Product - Customer Drw			sheet 2 of 4		

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Technical drawing of a mechanical part. The drawing shows a cross-section of a part with a 30-degree angle. A dimension line indicates a distance of 2X1.000 from the top edge to the start of the angled section.

DETAIL B
SCALE 10:1

spec ref		-		dr		Andy Lu		2017-10-24		projection				MM		size		A2		scale		4:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Lu		2017-10-24				ecn no		In Work									
ISO 406				chr		Fancy Zhong		2017-10-24				rel level											
ISO 1101				appr		Pei-Ming Zheng		2017-10-24				product family											
surface		linear 0.X ±0.5 0.XX ±0.25 0.XXX ±0.10 angular ±2°		Amphenol FCI		Title		eHPCE VERTICAL RECEPTACLE		dwg no		10140903		rev		7							
																		cat. no.		Product- Customer Drw		sheet 3 of 4	
																		ISO 1302					

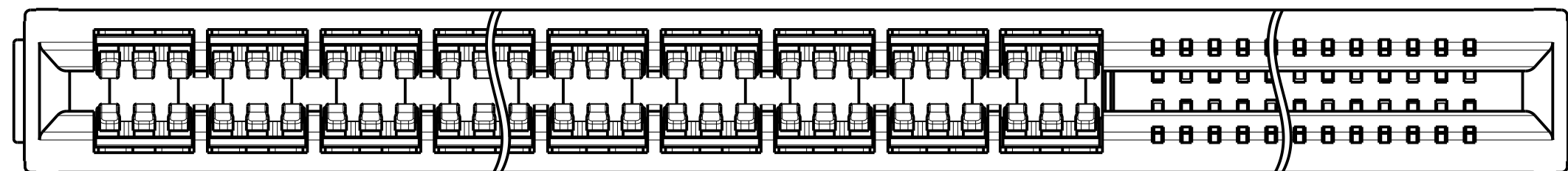
10140903 - MM SS * LF

LEAD FREE
BLANK: BLACK
2: BLUE

	A	B	C	D	E	F
POLARIZATION KEY OPTION	Y	N	Y	N	Y	N
TAIL LENGTH(Dim T)	3.17	3.17	3.17	3.17	2.40	2.40
TAIL TYPE/ HOST PCB THICKNESS	PF/ 1.57Min.	PF/ 1.57Min	STB/ 2.36±0.13	STB/ 2.36±0.13	STB/ 1.57±0.13	STB/ 1.57±0.13

MIDDLE POWER CONTACTS QTY(36MP Max.)

SIGNAL CONTACTS QTY(36S Max.)



G	H
Y	N
3.75	3.75
STB/ 3.00±0.13	STB/ 3.00±0.13

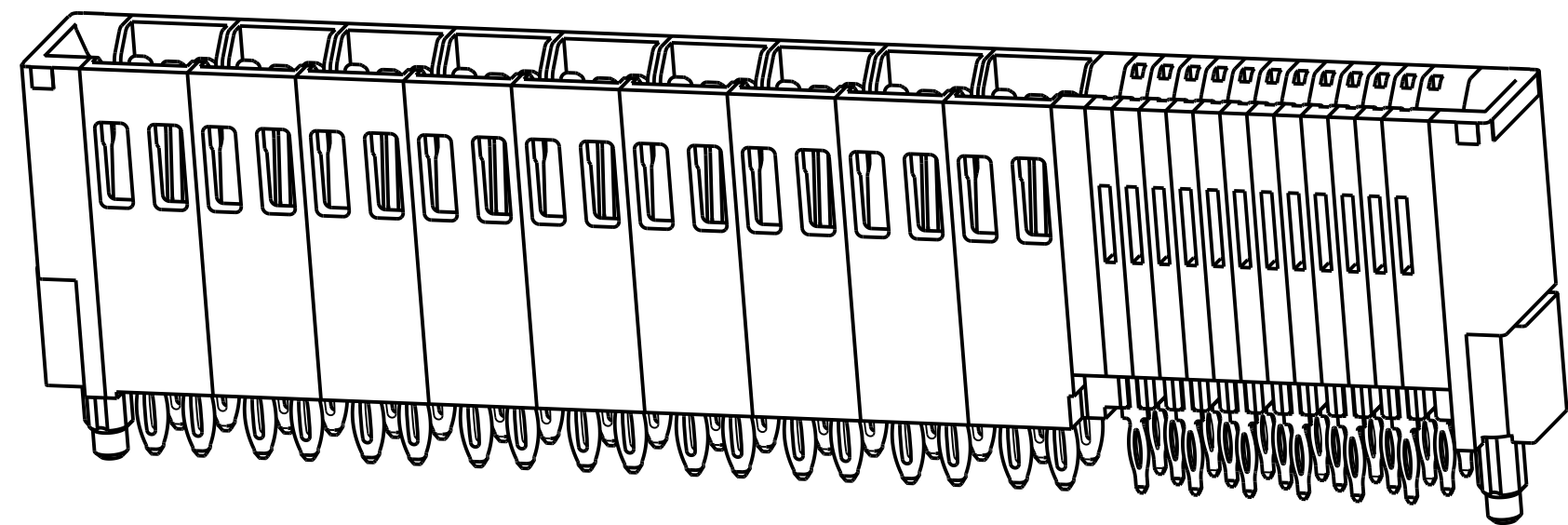
EXAMPLE: THE CONFIGURATION ABOVE IS 10140903-1824A2LF
eHPCE VERTICAL RECEPTACLE PF TYPE WITH 18MP24S AND POLARIZATION KEY;
18MP MEANS 18PCS MIDDLE POWER CONTACTS, 24S MEANS 24PCS SIGNAL CONTACTS.

TABLE 3. PART NUMBER CODE. eHPCE VERTICAL MP+S CONFIG

NOTES:

- 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.
- MATERIALS:
-HOUSING : HIGH TEMP THERMOPLASTIC WITH GLASS FIBER, UL94V-0, BLUE
-POWER CONTACT : HIGH CONDUCTIVITY COPPER ALLOY.
-SIGNAL CONTACT : COPPER ALLOY
- PLATING SPECIFICATION:
-POWER CONTACT:
CONTACT AREA: GCS OVER NI+LUBRICANT, LUBRICANT APPLICATION AT THE END OF THE PLATING LINE
SOLDER TAIL AREA: MATTE SN OVER NI
-SIGNAL CONTACT:
CONTACT AREA:GXT OVER NI
SOLDER TAIL AREA: MATTE SN OVER NI
- DENOTES CONNECTOR KEEP OUT ZONE.
- DATUM AND BASIC DIMENIONS WERE ESTABLISHED BY CUSTOMER.
- ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES.
- THE PRODUCT OF PF TYPE IS NOT INTENDED TO BE EXPOSED TO A MANUFACTURING SOLDER PROCESS.
THE HOUSING OF STB TYPE WILL WITHSTAND EXPOSURE TO 245 °C PEAK TEMPERATURE FOR 10 SECONDS
IN A WAVE SOLDER APPLICATION.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- PRODUCT SPECIFICATION : GS-12-1380.
APPLICATION SPECIFICATION : GS-20-0488, APPLICATION TOOLING FOR PF TYPE,SEE DRAWING 10141462.
PRODUCT PACKAGE SPECIFICATION: GS-14-2532.
- MOUNTING HOLES ARE UNPLATED
Ø 2.40+/-0.05 FOR PRESS FIT(PF) TAILS.
Ø 2.18+/-0.03 FOR SOLDER TO BOARD(STB) TAILS.
- MAXIMUM OVERALL LENGTH IS 100mm.

DIM	LENGTH FORMULAS
DIM A	(MM/2)X5.08 + (SS/2)X1.27 + 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



EXAMPLE: 10140903-1824A2LF

spec ref	-	dr	Andy Lu	2017-10-24	projection	MM	size	A2	scale	2:1
tolerance std	ISO 406 ISO 1101	eng	Andy Lu	2017-10-24	chr	Fancy Zhong	ecn no			
		appr	Pei-Ming Zheng	2017-10-24	product family		rel level		In Work	
surface	linear	0.X	±0.5	0.XX	±0.25	0.XXX	±0.10	angular	0°	±2°
ISO 1302										
		Amphenol FCI		eHPCE VERTICAL RECEPTACLE		cat. no.		Product - Customer Drw		sheet 4 of 4
		title		UNIVERSAL DRAWING,MP+S CONFIGURATION		dwg no		10140903		rev
										7

Mouser Electronics

Authorized Distributor

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

Amphenol:

[10140903-1220BLF](#)

FCI / Amphenol:

[10140903-1824B2LF](#) [10140903-2216E2LF](#) [10140903-1824D2LF](#) [10140903-1836B2LF](#) [10140903-2026B2LF](#)
[10140903-2216C2LF](#) [10140903-2016B2LF](#) [10140903-1410F2LF](#) [10140903-1412FLF](#) [10140903-1410FLF](#) [10140903-](#)
[1816E2LF](#) [10140903-1420ALF](#) [10140903-1420BLF](#) [10140903-1020ALF](#) [10140903-0416B2LF](#) [10140903-2824A2LF](#)
[10140903-0418BLF](#) [10140903-2820FLF](#) [10140903-1410FRLF](#) [10140903-1416DLF](#) [10140903-1824DLF](#) [10140903-](#)
[2420A2LF](#) [10140903-0430B2LF](#) [10140903-1612FLF](#) [10140903-2420ALF](#) [10140903-2024B2LF](#) [10140903-1824BLF](#)
[10140903-0836FLF](#)