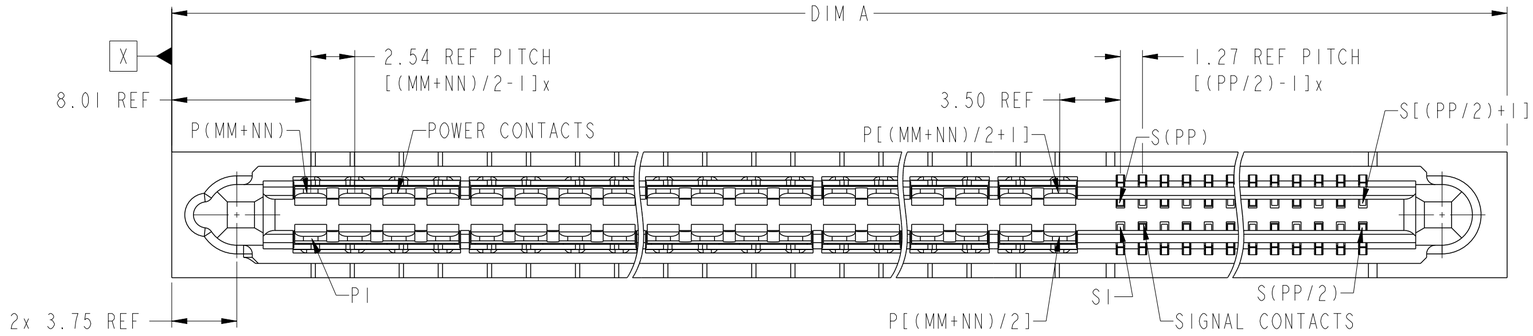
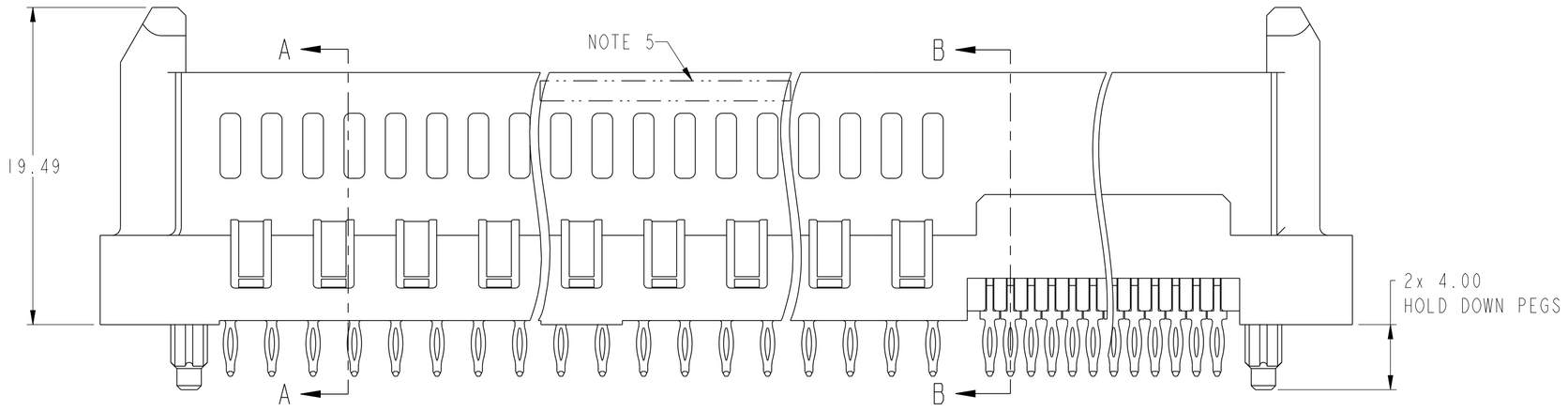
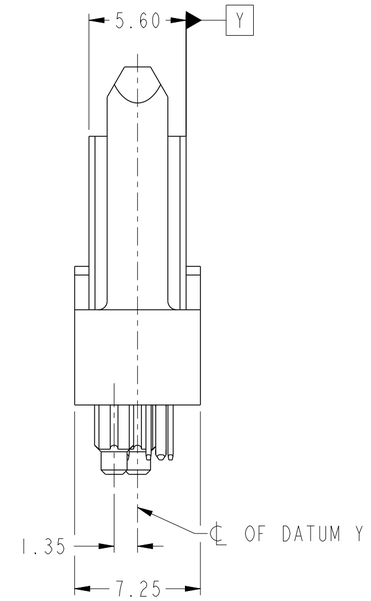
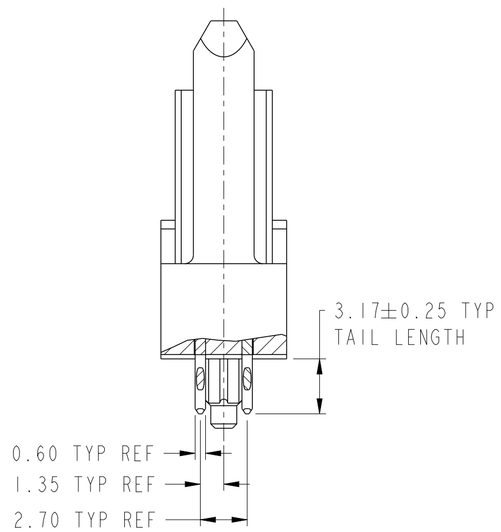
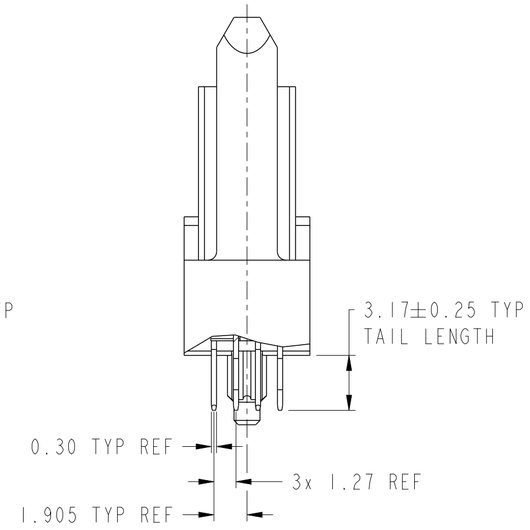










spec ref				dr	Julia Wang	2014/03/07	projection	MM
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Feng Zheng	2016/09/22		
				chr	Terris Liu	2016/09/22		
				appr	Pei-Ming Zheng	2016/09/22	product family	
surface ISO 1302	linear	0.X	±0.5	Amphenol FCi	title	HPCE BTB VT RECPT WITH GUIDE POST CONFIG. P+S - UNIVERSAL DRAWING	dwg no	10125023
		0.XX	±0.25					
		0.XXX	±0.10					
	angular	0°	±2°		cat. no.	Product - Customer Drw		

size	scale	rev
A2	4:1	B

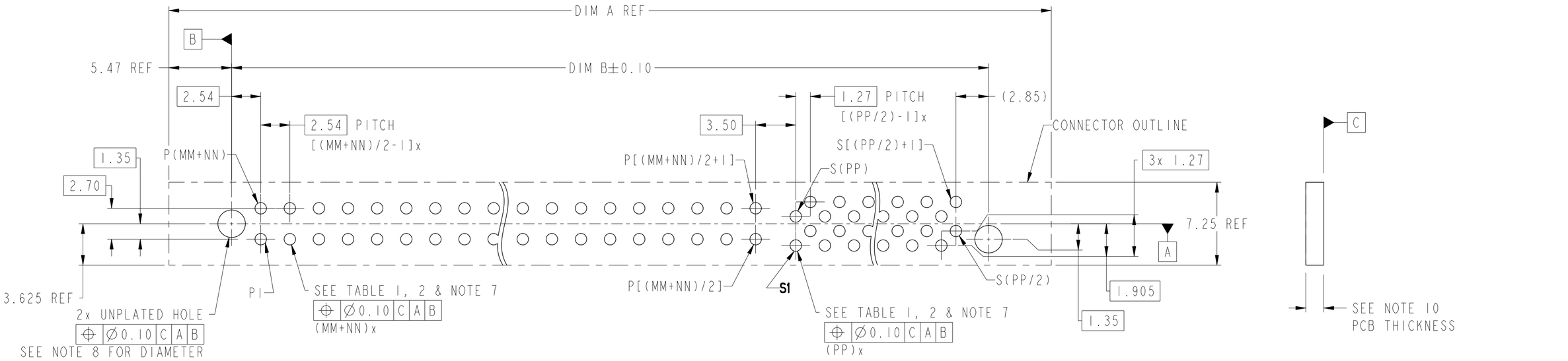
ecn no ELX-DG-24961-1

rel level **Released**

sheet 1 of 3

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 7)	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 7)	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80



spec ref			dr	Julia Wang	2014/03/07
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Feng Zheng	2016/09/22
			chr	Terris Liu	2016/09/22
			appr	Pei-Ming Zheng	2016/09/22
surface - ISO 1302	linear	0.X ±0.5			
		0.XX ±0.25			
		0.XXX ±0.10			
	angular	0° ±2°			

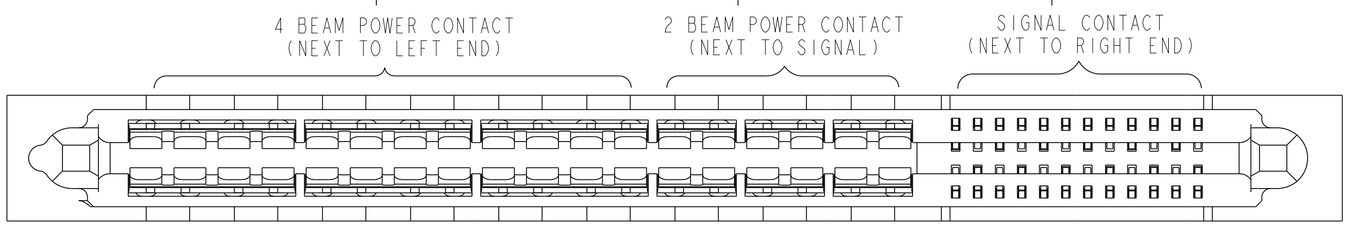
projection	MM	size A2	scale 4:1	
		ecn no ELX-DG-24961-1		
product family -		rel level Released		
Amphenol FCi	title: HPCE BTB VT RECPT WITH GUIDE POST CONFIG. P+S - UNIVERSAL DRAWING	dwg no 10125023	rev B	
	cat. no. -	Product - Customer Drw	sheet 2 of 3	

DIM	TABLE 3. LENGTH FORMULAS
DIM A (12)	(MM + NN) / 2 x 2.54 + (PP / 2) x 1.27 + 16.02
DIM B	DIM A - 10.94

10125023 - MM NN PP _ LF

LEAD FREE

TAIL TYPE NOTE 10	A	B
	STB	PF



Example: The configuration above is 10125023-241224BLF
STD HPCE BTB VERT. PRESS-FIT RECEPT. 36P24S.
24P is 4 beam contact, 12P is 2 beam contact.

TABLE 4: PART NUMBER CODE. HPCE BTB STD VERT RECPT 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-12-1125 SECTION 5.2.

3. PRODUCT SPECIFICATION: GS-12-1125.

4. APPLICATION SPECIFICATION: GS-20-0388.

(5.) 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.

6. PACKAGING MEETS FCI SPECIFICATION GS-14-2272.

(7.) ALL HOLE SIZES ARE FINISHED HOLE SIZES.

(8.) MOUTING HOLES ARE UNPLATED:
∅2.40 +/- 0.10 FOR PRESS-FIT TAILS
∅2.18 +/- 0.03 FOR SOLDER TAILS

9. PRESS FIT APPLICATION TOOL DRAWING: 10125182

(10) STB: SOLDER TO BOARD, 1.57-2.38mm PCB THICKNESS
PF: PRESS FIT, 1.57mm MINIMUM PCB THICKNESS.

11. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 245°C PEAK TEMPERATURE
FOR 10 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.

(12) MAXIMUM OVERALL LENGTH IS 100mm.

spec ref			dr	Julia Wang	2014/03/07	projection	MM
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Feng Zheng	2016/09/22		
			chr	Terris Liu	2016/09/22		
			appr	Pei-Ming Zheng	2016/09/22	product family	
surface ISO 1302	linear	0.X ±0.5	Amphenol FCi	title	HPCE BTB VT RECPT WITH GUIDE POST CONFIG. P+S - UNIVERSAL DRAWING	dwg no 10125023	rev B
		0.XX ±0.25					
		0.XXX ±0.10					
	angular	0° ±2°		cat. no.	Product - Customer Drw		sheet 3 of 3

size	scale	ecn no	rel level
A2	4:1	ELX-DG-24961-1	Released