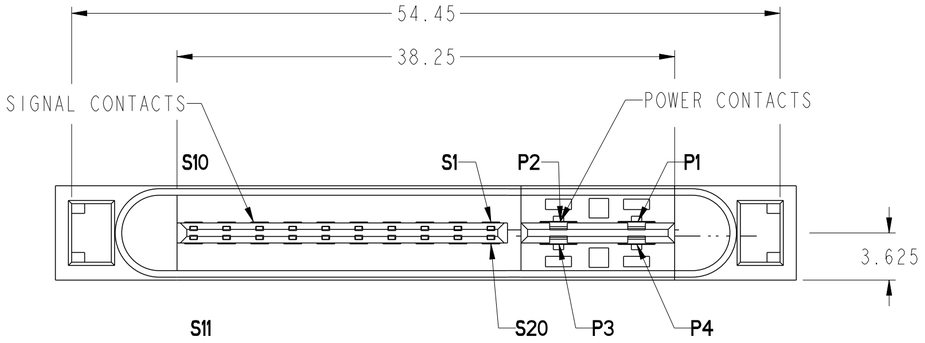
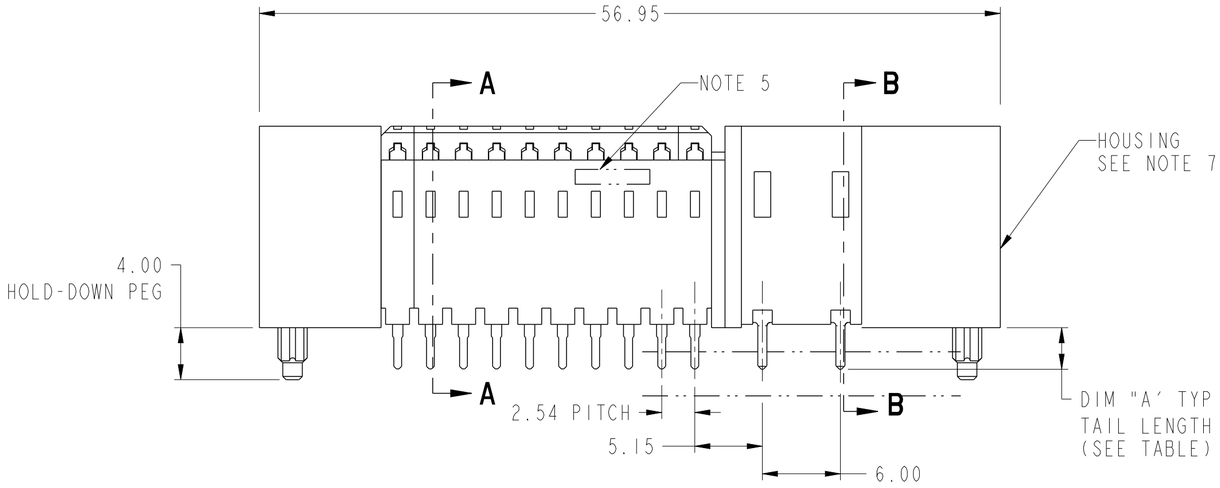
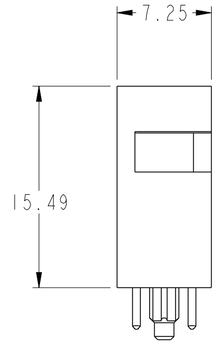
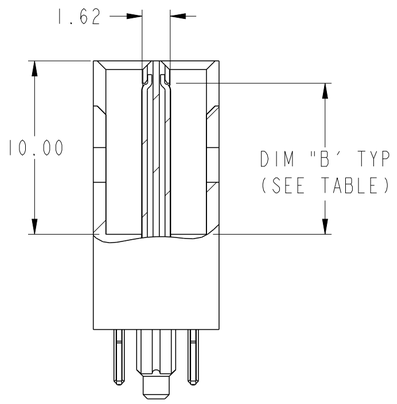
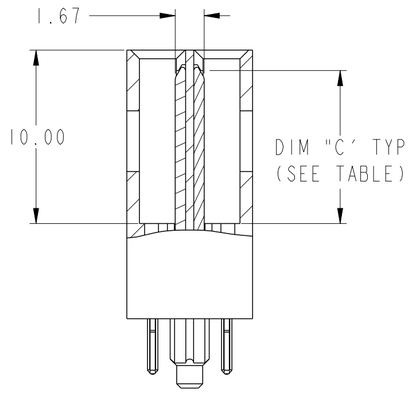








SECTION A-A
SCALE 4:1



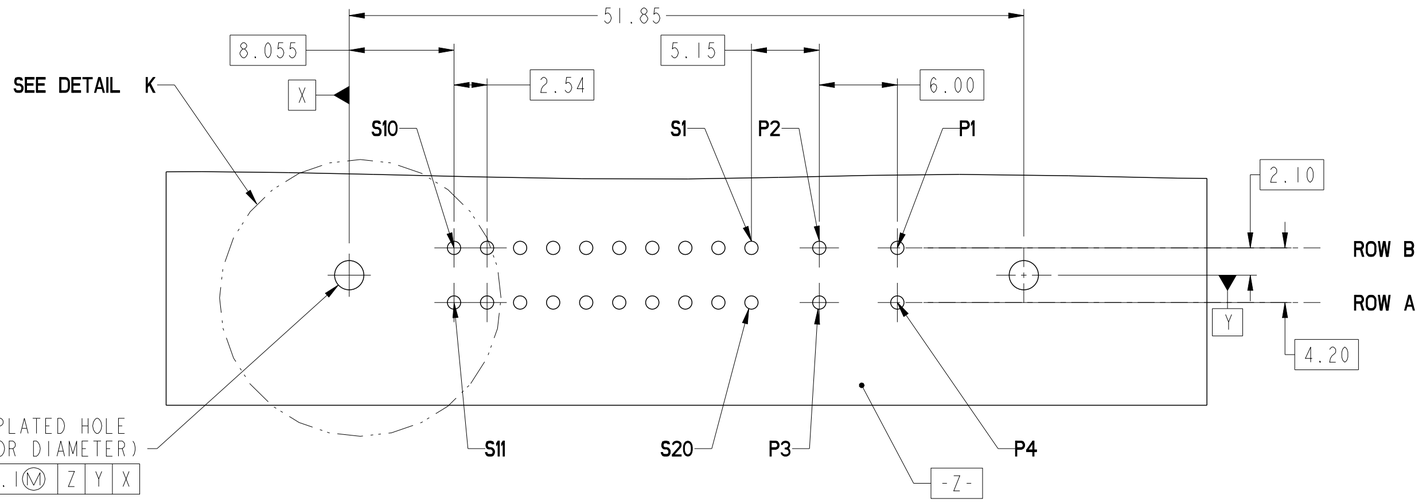
SECTION B-B
SCALE 4:1

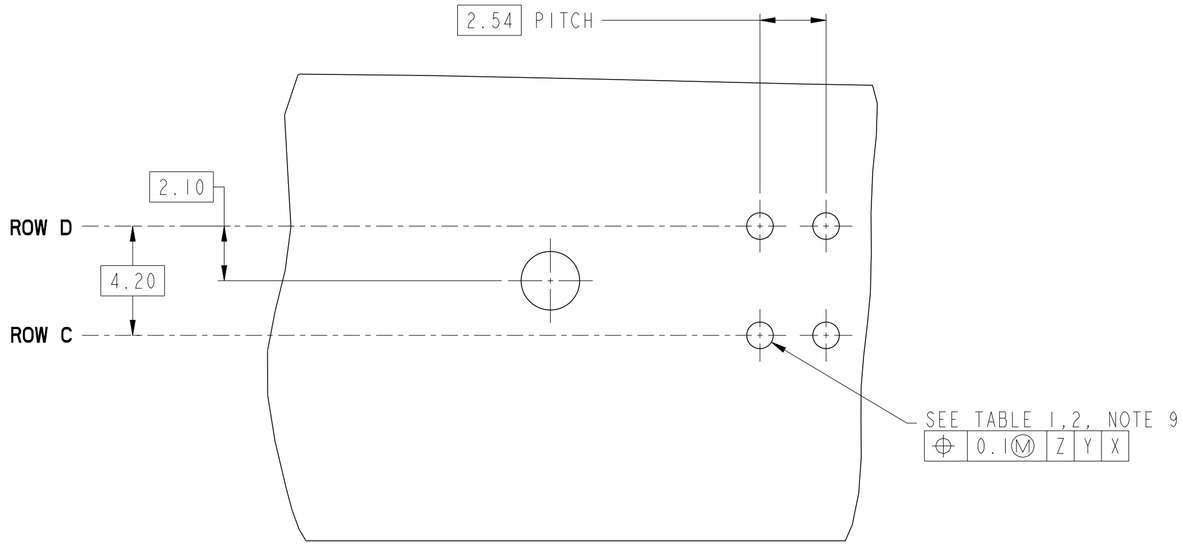
spec ref -			dr	Hai-Ling Liu	2015/02/05	projection	MM	size A2 / scale 3:1
tolerance std ASME Y14.5 -	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Hai-Ling Liu	2015/03/24			ecn no -
			chr	-	-			
			appr	Pei-Ming Zheng	2015/03/24	product family	HPCE	rel level Released
surface -	linear	0.X	±0.5	FCI	title	HPCE CTB VERT HEADER 4LP20S		dwg no 10133461 / rev A
		0.XX	±0.25					
ASME Y14.5		0.XXX	±0.10					
	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 1 of 4

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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

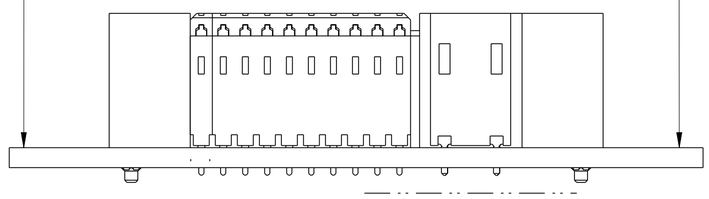
CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 2 (HPCE / PRESS-FIT TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER	TIN-LEAD	8.10-8.60 (0.85 DRILL)	0.025 - 0.050	0.005 - 0.015	--	0.65 - 0.80
	IMMERSION TIN	8.10-8.60 (0.85 DRILL)	0.025 - 0.050	--	0.9 - 1.5um	0.70 - 0.80
	COPPER (SEE NOTE 8)	8.10-8.60 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80





DETAIL K
SCALE 6:1

RECOMMENDED PCB LAYOUT
VIEW FROM CONNECTOR SIDE



SCALE 2:1

dr	Hai-Ling Liu	2015/02/05	projection	MM	size A2 / scale 3:1
eng	Hai-Ling Liu	2015/03/24			ecn no -
chr	-	-			
appr	Pei-Ming Zheng	2015/03/24	product family HPCE		rel level Released

FCI	title: HPCE CTB VERT HEADER 4LP20S	dwg no: 10133461	rev: A
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PRODUCT PART NUMBER

10133461-□□□□□ □LF

BASE PART NUMBER

CONTACT AREA PLATING
UNDERPLATED 50u"(1.27um) MIN. NICKEL
1: 100u"(2.5um) MIN. Ag
2: 30u"(0.760um) MIN. GXT

DIM "A", TAIL LENGTH FOR STB TAIL
1: 2.60±0.25mm (PCB THK 1.57±0.13mm)
2: 3.25±0.25mm (PCB THK 2.36±0.13mm)
DIM "A", TAIL LENGTH FOR PF TAIL
2. 3.04±0.25mm((PCB THK 1.57±0.13mm)

FIRST MATE LAST BREAK PIN POSITION
000: ALL PINS ARE LONG PINS SEE TABLE

TAIL TYPE
A: STB
B: PF

NOTES:

1. CONNECTOR MATERIALS:

   HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK UL 94V-0 COMPLIANT

   CONTACTS: HIGH PERFORMANCE COPPER ALLOY.

2. CONTACT FINISH REF. GS-12-1031 SECTION 5.2

3. PRODUCT SPECIFICATION: GS-12-1031

4. APPLICATION SPECIFICATION: GS-20-0369

5. PRODUCT MARKING (FCI PART NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN.

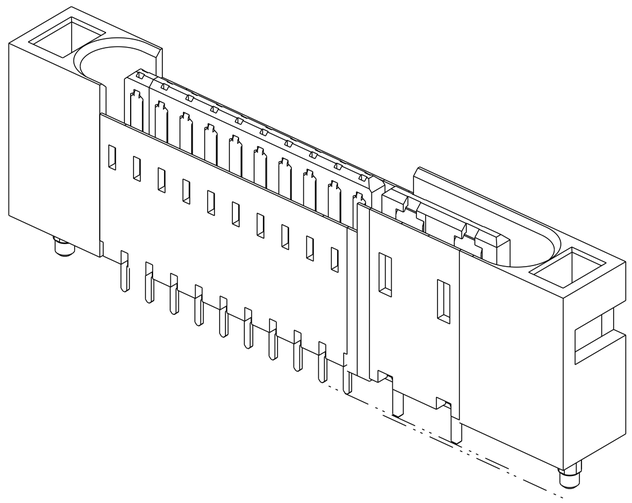
6. PACKAGING MEETS FCI SPECIFICATION GS-14-2272.

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
    ∅2.25±0.05 FOR SOLDER TAILS
    ∅2.40±0.1 FOR PRESS-FIT TAILS



dr	Hai-Ling Liu	2015/02/05	projection	MM	size A2	scale 3:1
eng	Hai-Ling Liu	2015/03/24				
chr	-	-			ecn no -	
appr	Pei-Ming Zheng	2015/03/24	product family HPCE		rel level Released	

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	cat. no. -	Product - Customer Drw	sheet 3 of 4

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000	END MODULE	SIGNAL CONTACT											POWER CONTACT			END MODULE
			10	9	8	7	6	5	4	3	2	1	2	1		
		ROW C	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	P3/P9	P3/P9	ROW A	
		ROW D	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	S3/S9	P3/P9	P3/P9	ROW B	
S3 AND P3 FPR STB TAIL, S9 AND P9 FOR PF TAIL																

	ROW#	S#	DIM "B"±0.25	DIM "A"±0.25
SIGNAL CONTACT	ROW C	S1	8.73	3.25
		S2	7.46	3.25
		S3	8.73	2.60
		S4	7.46	2.60
		S9	8.73	3.04
		S10	7.46	3.04
	ROW D	S1	8.73	3.25
		S2	7.46	3.25
		S3	8.73	2.60
		S4	7.46	2.60
		S9	8.73	3.04
		S10	7.46	3.04

	ROW#	P#	DIM "C"±0.25	DIM "A"±0.25
POWER CONTACT	ROW A	P1	8.86	3.25
		P2	7.59	3.25
		P3	8.86	2.60
		P4	7.59	2.60
		P9	8.86	3.04
		P10	7.59	3.04
	ROW B	P1	8.86	3.25
		P2	8.86	3.25
		P3	7.59	2.60
		P4	7.59	2.60
		P9	8.86	3.04
		P10	7.59	3.04

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eng	Hai-Ling Liu	2015/03/24			ecn no -
chr	-	-			
appr	Pei-Ming Zheng	2015/03/24	product family HPCE		rel level Released
www.fci.com	cat. no. -		Product - Customer Drw		sheet 4 of 4

title: HPCE CTB VERT HEADER
4LP20S

dwg no: 10133461

rev: A

Mouser Electronics

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FCI / Amphenol:

10133461-22000ALF 10133461-22000BLF