

Excellent Integrated System Limited

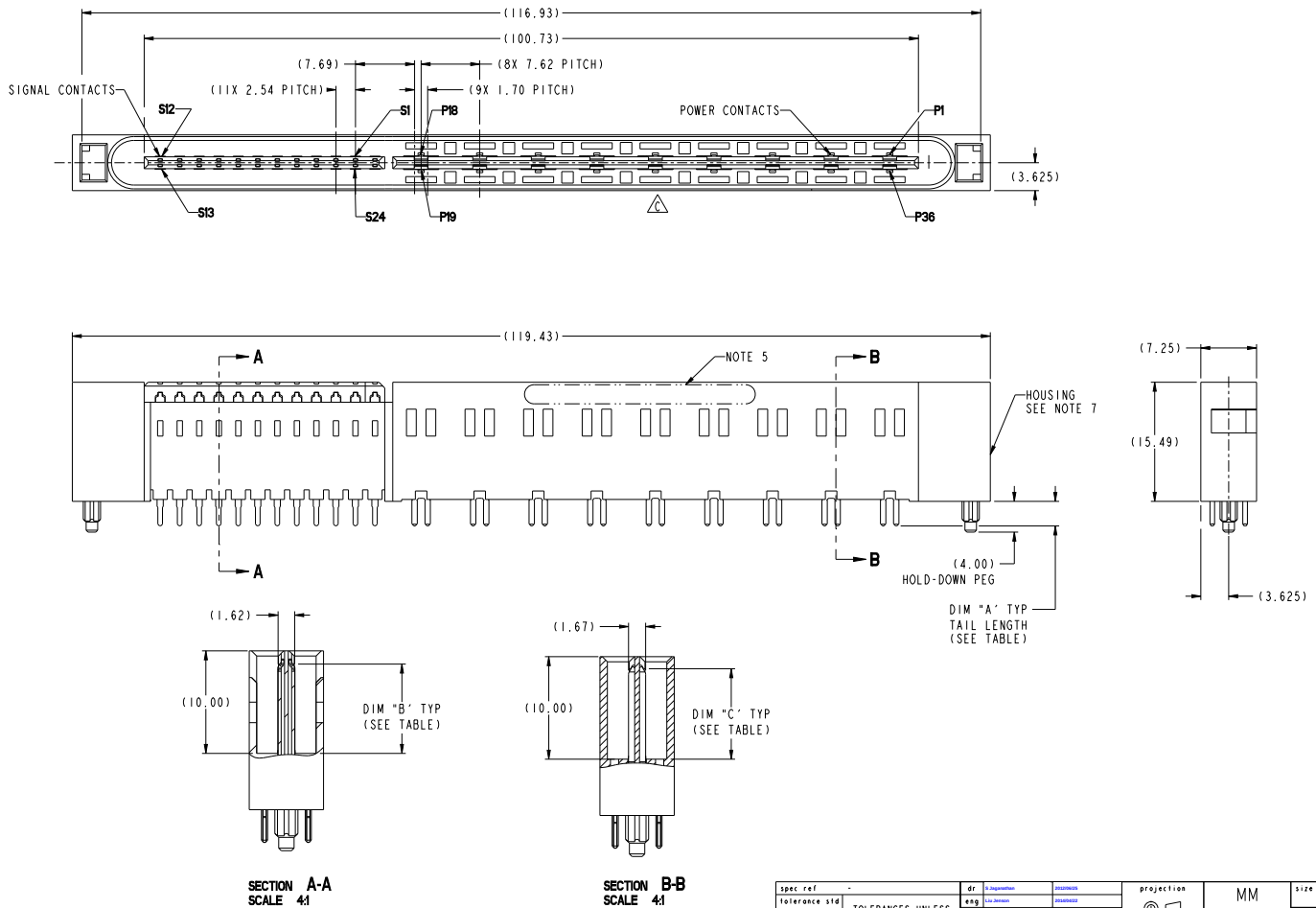
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[FCI](#)
[10120942-21000LF](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



spec. ref.	-	dr.	Engineering	approved	projection	MM	size	A2	scale	3:1
tolerance std	ASME Y14.5	eng	Design	approved	chp	Design	acc. no.		rel. level	Released
	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Review	approved	product family	HPCE				
surface	linear	0.1	±0.3	FCI	VERTICAL HEADER (36HP-24S)		10120942			
		0.2X	±0.10		HPCE CTB VERT - HEADER					
	angular	0.2X	±0.050	www.fci.com						
		0°	±2°							
PDS: Rev D					STATUS: Released			Printed: Apr 25, 2014		

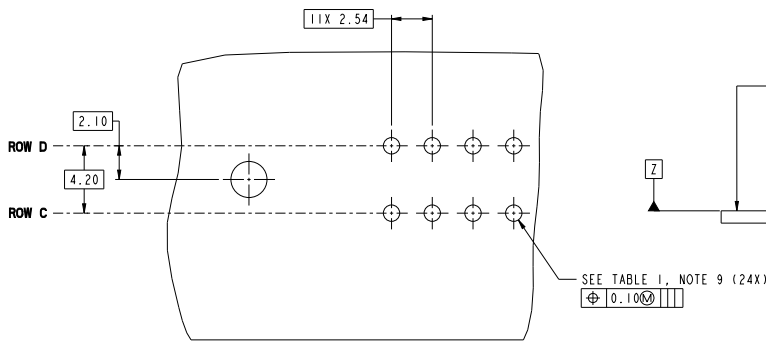
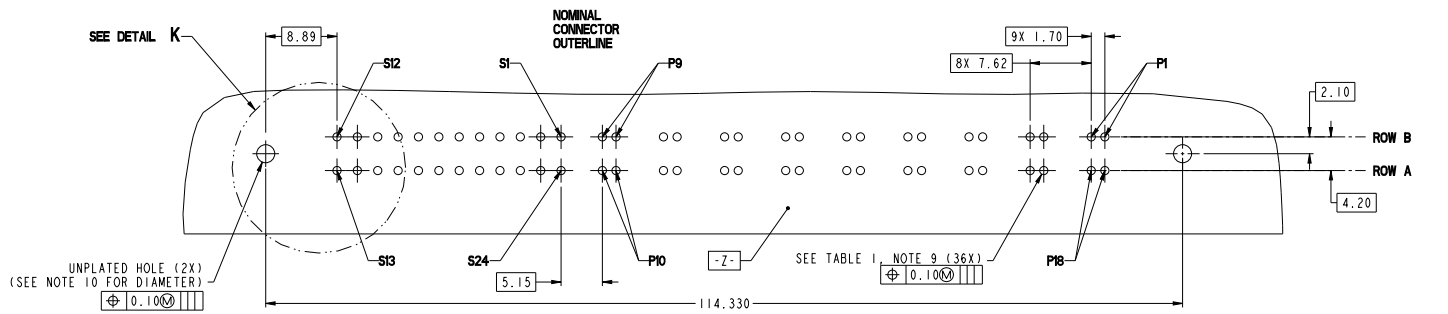
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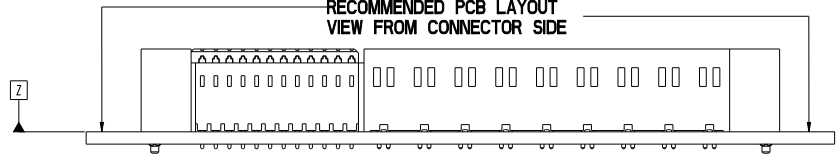
TABLE 1 (HPCE / SOLDER TAILS)
PLATED THROUGH-HOLE REQUIREMENTS

CONTACT TYPE	TOP LAYER DESCRIPTION	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



DETAIL K
SCALE 6:1

RECOMMENDED PCB LAYOUT
VIEW FROM CONNECTOR SIDE



SCALE 2:1

spec. ref.	-	dr.	Engineering	projection	MM	size	A2	scale	3:1
tolerance std.	ASME Y14.5	eng.	Design	chf.	Check	acc. no.		rel. level	Released
		appr.	Review			product family	HPCE		
surface	linear	0.1	±0.3	FCI	VERTICAL HEADER (36HP-24S)	deg. no.	10120942	rev	D
	angular	0.1XX	±0.10	www.fci.com	HPCE CTB VERT - HEADER				
ASME Y14.5		0.1XX	±0.050						

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PRODUCT PART NUMBER

10120942-□□□□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

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

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

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.

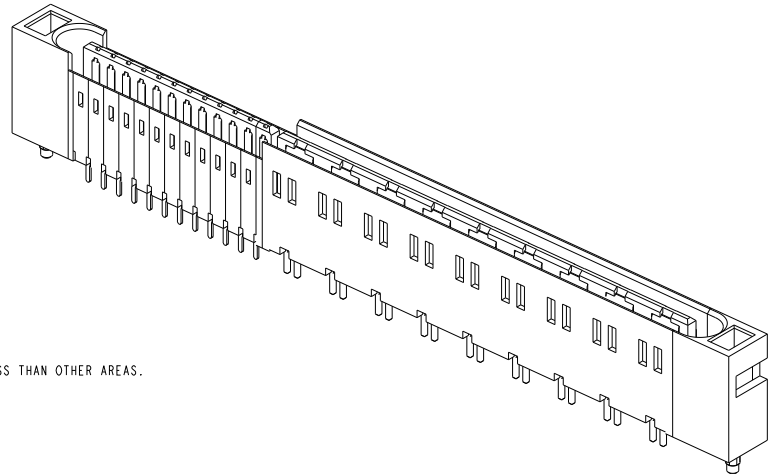
6. PACKAGING MEETS FCI SPECIFICATION GS-14-2272. 

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
Ø 2.25±0.05 FOR SOLDER TAILS



spec. ref.	-	dr.	1.0/0.0000	projection	MM	size	A2	scale	3:1
tolerance std	ASME Y14.5	eng	10/0.0000	chp	10/0.0000	acc. no.		rel. level	Released
		appr	10/0.0000	product family	HPCE				
surface	linear	0.1	±0.3	FCI	VERTICAL HEADER (36HP-24S)	deg. 0			
		0.2X	±0.10		HPCE CTB VERT - HEADER		10120942	rev	D
ASME Y14.5	angular	0.1X	±0.050	www.fci.com	col. no.		Product - Customer Drw	sheet 3 of 4	

PDS: 6 rev :D

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000	END MODULE	SIGNAL CONTACT												POWER CONTACT										END MODULE		
			12	11	10	9	8	7	6	5	4	3	2	1	9	8	7	6	5	4	3	2	1			
		ROW C	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	P3	P3	P3	P3	P3	P3	P3	P3	P3		P3	ROW A
		ROW D	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	P3	P3	P3	P3	P3	P3	P3	P3	P3		P3	ROW B

SIGNAL CONTACT	ROW#	S#	DIM "B"±0.25	DIM "A"±0.25
	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	3.25
		S10	7.46	3.25
	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	3.25
		S10	7.46	3.25

POWER CONTACT	ROW#	P#	DIM "C"±0.25	DIM "A"±0.25
	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	3.25
		P10	7.59	3.25
	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	3.25
		P10	7.59	3.25

spec. ref.	-	dr.	Engineering	ASME Y14.5	projection	MM	size	A2	scale	3:1
tolerance std	ASME Y14.5	eng	Engineering	ASME Y14.5	product family	HPCE	rel. level	Released		
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ASME Y14.5	angular	0.1X	±0.10	www.fci.com	HPCE CTB VERT - HEADER	Product - Customer Drw	sheet 4 of 4			

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