

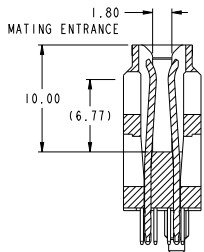
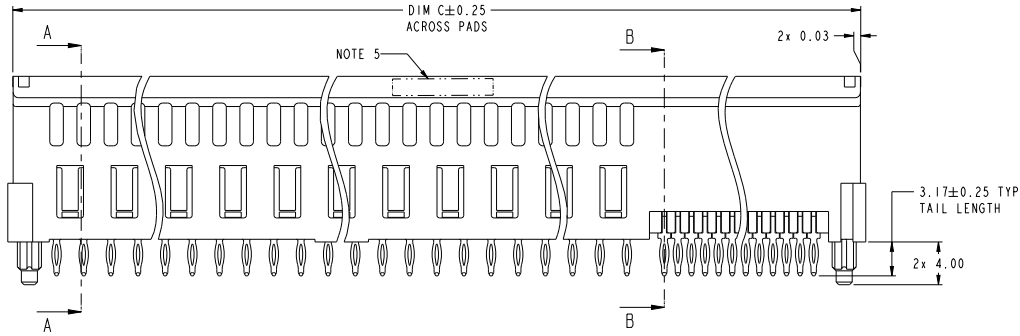
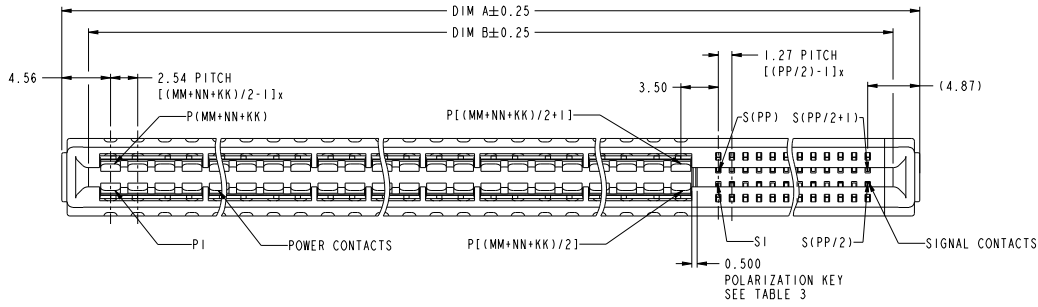
Excellent Integrated System Limited

Stocking Distributor

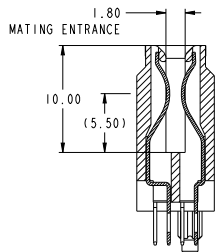
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[FCI](#)
[10127905-A12A20ALF](#)

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sales@integrated-circuit.com



SECTION A-A



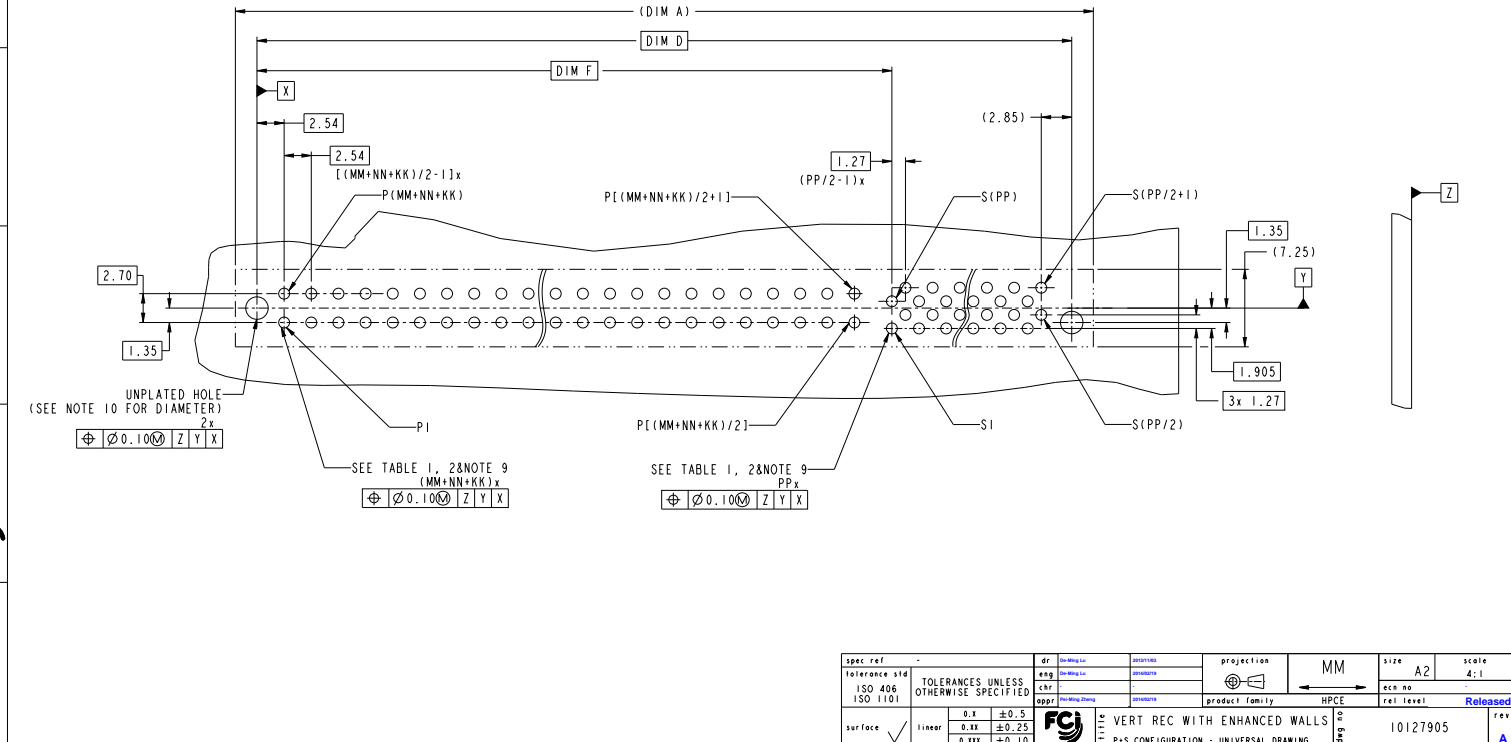
SECTION B-B

spec. ref.	-	dr.	Shi-Ming Lu	date	2013/10/10	projection	MM	size	A2	scale	1:1
tolerance	ISO 406 ISO 1101	eng	Shi-Ming Lu	checked	2013/10/10	product family	HPCE	acc. no.		rel. level	Released
surface	linear	0.1	±0.5	0.25	±0.25	0.25X	±0.10	angular	0°	±2°	FCI
ISO 1302	angular	0°	±2°	www.fci.com	cat. no.	VERT REC WITH ENHANCED WALLS	10127905	rev	A		
		PDS: Rev: A		STATUS: Released		Printed: Feb 19, 2014				Product - Customer Draw sheet 1 of 4	

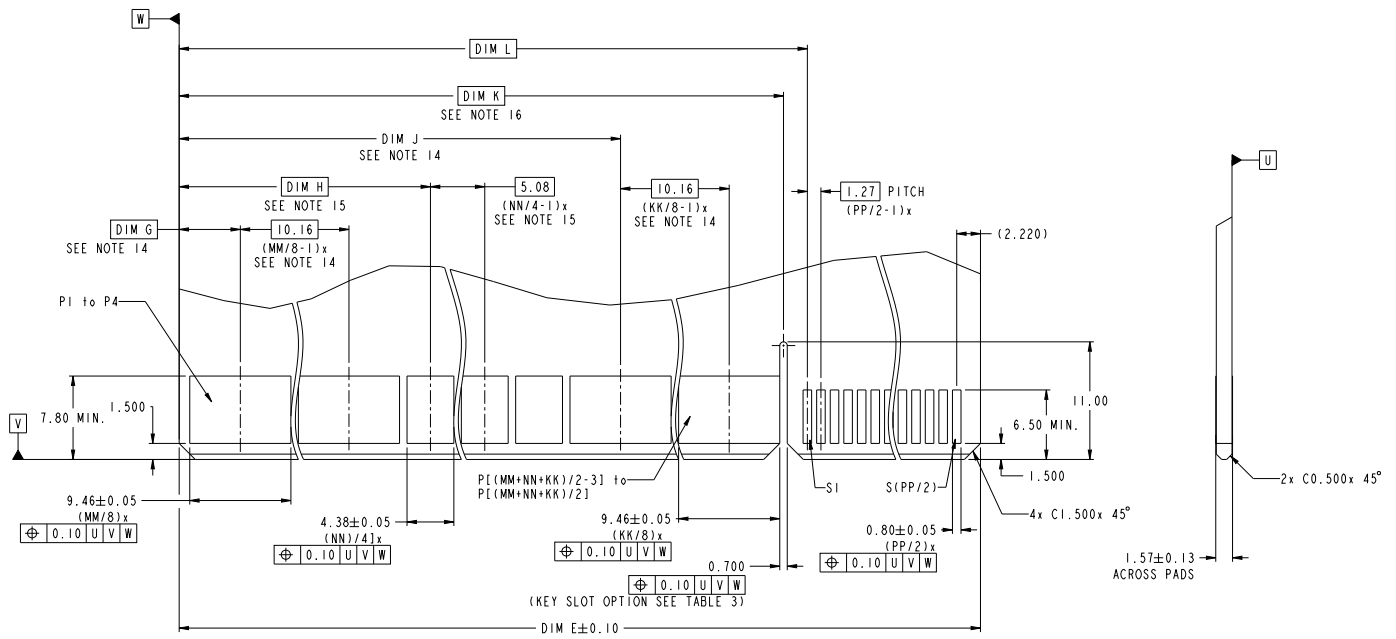
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CONTACT TYPE	TOP LAYER DESCRIPTION	TABLE 1 (HPCE / SOLDER TAILS) PLATED THROUGH-HOLE REQUIREMENTS				
		DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	TIN THICKNESS	FINISHED HOLE DIAMETER
POWER & SIGNAL	TIN-LEAD	1.10-1.16 (1.15 DRILL)	0.025 - 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 & 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 8)	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	0.70 - 0.80



spec. ref.	-	dr.	Shi Ming Lu	date	2013/11/05	projection	MM	size	A2	scale	1:1
tolerance	ISO 406 ISO 1101	eng	Shi Ming Lu	checked		product family	HPCE	rel. level	Released	rev	
surface	ISO 1302	apppr	Wei Wang, Zhong	approved		VERT REC WITH ENHANCED WALLS		10127905			
						P+S CONFIGURATION - UNIVERSAL DRAWING					
						Product - Customer Draw					sheet 2 of 4



spec. ref.	-	dr.	Shi-Ming Lu	date	20131105	projection	MM	size	A2	scale	1:1
tolerance	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101	ISO 406 ISO 1101
TOLERANCES UNLESS OTHERWISE SPECIFIED						product family	HPCE	rel. level	Released		
surface	linear	0.1	±0.5	0.25	±0.25	0.25X	±0.10	FCI VERT REC WITH ENHANCED WALLS		10127905	rev
ISO 1302	angular	0°	±2°	www.fci.com		cat. no.		Product - Customer Draw		sheet 3 of 4	A

PDS: Rev:A

STATUS: Released

Printed: Feb 19, 2014

10127905 - MM NN KK PP LF LEAD FREE

LEFT QUAD PWR BEAM QTY CONFIGURATION SEE TABLE 5
 DUAL PWR BEAM QTY (NEXT TO SIGNAL)
 RIGHT QUAD PWR BEAM QTY CONFIGURATION SEE TABLE 5
 SIGNAL CONTACT QTY

Polarization Key Option Tail Type Note 12	A	B	C	D
	Y	Y	N	N
	STB	PF	STB	PF

CONFIGURATION:
 I: 4 BEAM (NN = 00 AND KK = 00);
 II: 2 BEAM (MM = 00 AND KK = 00);
 III: 4 BEAM + 2 BEAM (KK = 00);
 IV: 2 BEAM + 4 BEAM (MM = 00);
 V: 4 BEAM + 2 BEAM + 4 BEAM.

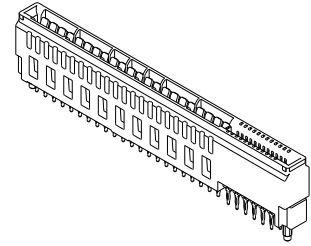
TABLE 3. PART NUMBER CODE. HPCE VERT P+S CONFIG (SPECIAL)

NOTES:

- CONNECTOR MATERIALS:
 HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
 UL 94V-0 COMPLIANT
 CONTACTS: HIGH PERFORMANCE COPPER ALLOY.
- CONTACT FINISH REF. GS-12-604 SECTION 5.2.
- PRODUCT SPECIFICATION: GS-12-604.
- APPLICATION SPECIFICATION: GS-20-128.
- PRODUCT MARKING (FCI - PART NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN.
- PACKAGING MEETS FCI SPECIFICATION GS-14-937.
- HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
- COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE NO MORE THAN 0.003 LESS THAN OTHER AREAS.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED
 Ø 2.40 +/- 0.1 FOR PRESS-FIT TAILS
 Ø 2.18 +/- 0.03 FOR SOLDER TAILS
- PRESS FIT APPLICATION TOOL DRAWING : 10119453.
- STB= Solder to board, 1.57-2.38mm PCB thickness.
 PF = Press fit, 1.57mm minimum PCB thickness.
- MAXIMUM OVERALL LENGTH IS 100mm.

- DIM IS NOT APPLICABLE IF NO 4 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO 2 BEAM CONTACT.
- DIM IS NOT APPLICABLE IF NO POLARIZATION KEY.
- DUE TO FCI PART NUMBER LENGTH LIMITED, A LETTER WILL REPLACE MM AND KK, DETAIL SEE TABLE 5.

DIM	TABLE 4: LENGTH FORMULAS
DIM A	$(MM+KK)/8 \times 10.16 + (NN/4) \times 5.08 + (PP/2) \times 1.27 + 9.12$
DIM B	DIM A - 5.00
DIM C	DIM A - 0.94
DIM D	DIM A - 4.04
DIM E	DIM A - 5.30
DIM F	$[(MM+NN+KK)/2] \times 2.54 + 3.50$
DIM G	CONFIG. I 5.72
	CONFIG. II -
	CONFIG. III 5.72
	CONFIG. IV -
	CONFIG. V 5.72
DIM H	CONFIG. I -
	CONFIG. II 3.18
	CONFIG. III $(MM / 8 - 1) \times 10.16 + 13.34$
	CONFIG. IV 3.18
	CONFIG. V $(MM / 8 - 1) \times 10.16 + 13.34$
DIM J	CONFIG. I -
	CONFIG. II -
	CONFIG. III -
	CONFIG. IV $(NN / 4 - 1) \times 5.08 + 10.80$
	CONFIG. V $(MM / 8 - 1) \times 10.16 + (NN / 4 - 1) \times 5.08 + 20.96$
DIM K	$(MM+KK)/8 \times 10.16 + (NN/4) \times 5.08 + 0.64$ (WITH KEY) - (NO KEY)
DIM L	$(MM+KK)/8 \times 10.16 + (NN/4) \times 5.08 + 2.87$



EXAMPLE: 10127905-B12B24BLF

LETTER	REPRESENT QUAD PWR BEAM QTY
A	08
B	16
C	24
D	32
E	40
F	48
G	56

spec. ref.	-	dr.	Lee Ming Guo	date	20131105	projection	MM	size	A2	scale	1:1	
tolerance	ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Lee Ming Guo	checked			acc. no.				
surface	ISO 1302	linear	0.1	±0.5	0.2X	±0.25	0.3X	±0.10	angular	Ø	±2°	
www.fcicon.com			FCI		VERT REC WITH ENHANCED WALLS P+S CONFIGURATION - UNIVERSAL DRAWING		product family	HPCE	rel. level	Released	rev	A
PDS: Rev: A			STATUS: Released			Product: Customer Drw			sheet 4 of 4			

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