

Excellent Integrated System Limited

Stocking Distributor

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[10121002-004LF](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



SECTION B-B
SCALE 4:1

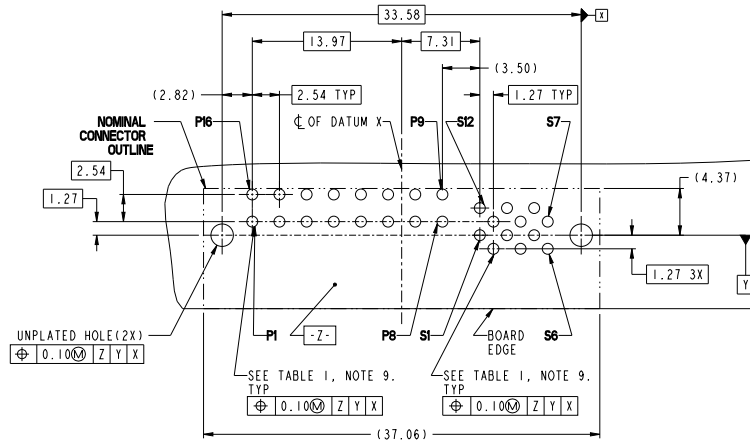
spec. ref. tolerance 51		dr 1/8" Long Slotted Drilling 250000000		projection MM		size A2		scale 4:1	
ISO 406 ISO 1101		TOLERANCES UNLESS OTHERWISE SPECIFIED				ecc no		rel level Released	
		cbr 1/8" Long Slotted Drilling 250000000		product family					
surface		linear		R/A RECT (16P-12S)		ISO 1101		10121002	
ISO 1302		angular		HIGH POWER CARD EDGE		Product - Customer Drw		sheet 1 of 4	
5		PDS: Rev C		STATUS: Released		Printed: May 24, 2016			

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



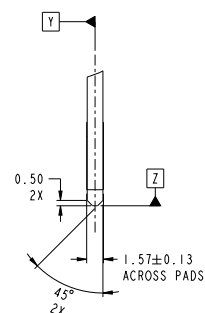
RECOMMENDED PCB LAYOUT

spec. ref.	-	dr	Wen Wang Zhang	20160505	projection	MM	size	A2	scale	1:1
tolerance std	ISO 406	eng	Wen Wang Zhang	20160505	acc no		rel level	Released		
ISO 1101		chr	Wen Wang Zhang	20160505	product family					
		appr	Wen Wang Zhang	20160505						
surface	linear	0.1	±0.3		Amphenol FCI		R/A RECT (16P-12S)		10121002	
	linear	0.2X	±0.10							
	angular	0.2X	±0.05							
ISO 1302		0°	±2°		cat. no.		Product - Customer Drw		sheet 2 of 4	rev C

PDS: Rev :C

STATUS: Released

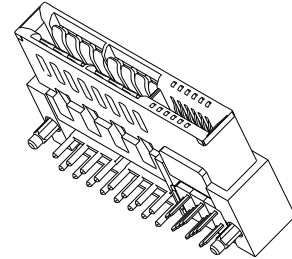
Printed: May 24, 2016



spec ref		-		dr		Wen-Liang Zhang		20230501		projection		MM		size		A2		scale		4:1	
tolerance 12		ISO 406		TOLERANCES UNLESS OTHERWISE SPECIFIED		cnc		20230501						ecn no		RCA-000-00000-1					
ISO 1101						eng		Yuan-Lin Lu		20230501											
						app		Wen-Liang Zhang		20230501		product family				rel level		Released			
surface		linear		0.1 ± 0.03 $0.1X \pm 0.010$ $0.1XX \pm 0.05$				R/A RECT (16P-12S)						10121002							
ISO 1302		angular		$0.1^\circ \pm 0.05^\circ$ $0.1^\circ X \pm 0.05^\circ$				HIGH POWER CARD EDGE													
								cat. no.		Product -		Customer Doc.		sheet 3 of 4							

HPCE PART NUMBER (TABLE 2)

PART NUMBER	TAIL TYPE	HOLD-DOWN OPTION	ORIENTATION KEY	DIM "A" TAIL LENGTH OF POWER PINS	DIM "B" TAIL LENGTH OF SIGNAL PINS
10121002-001LF	SOLDER TAIL	NO	YES	3.25±0.25	3.25±0.25
10121002-002LF			NO		
10121002-003LF		YES	YES		
10121002-004LF			NO		
10121002-005LF		NO	YES	2.60±0.25	2.60±0.25
10121002-006LF			NO		
10121002-007LF		YES	YES		
10121002-008LF			NO		
10121002-009LF		YES	NO	2.60±0.25	2.10±0.25



NOTES:

1. CONNECTOR MATERIALS:

HOUSING: HIGH TEMPERATURE THERMAL PLASTIC, BLACK
UL 94V-0 COMPLIANT
CONTACTS: HIGH PERFORMANCE COPPER ALLOY.

2. CONTACT FINISH REF. GS-12-604 SECTION 5.2.

3. PRODUCT SPECIFICATION: GS-12-604.

4. APPLICATION SPECIFICATION: GS-20-128.

5. PRODUCT MARKING ON HOUSING IN AREA SHOWN MEETS AFCE SPECIFICATION: GS-24-007.

6. PACKAGING MEETS FCI SPECIFICATION GS-14-937.

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 2.18 +/- 0.03 FOR SOLDER TAILS

11. A Δ SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

spec. ref.	-	dr.	Wen-Hong Zhang	20160505	projection	MM	size	A2	scale	4:1
tolerance std	ISO 406	eng	Wen-Hong Zhang	20160505	product family		acc. no.		rel. level	Released
ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Wen-Hong Zhang	20160505						
		appr	Wen-Hong Zhang	20160505						
surface	linear	0.1	±0.3		Amphenol FCI		R/A RECT (16P-12S)		10121002	
	linear	0.2X	±0.10							
	angular	0.2X	±0.05							
ISO 1302	angular	Ø	±2		HIGH POWER CARD EDGE		Product - Customer Drw		sheet 4 of 4	
		cat. no.			PDS: Rev :C		STATUS: Released		Printed: May 24, 2016	