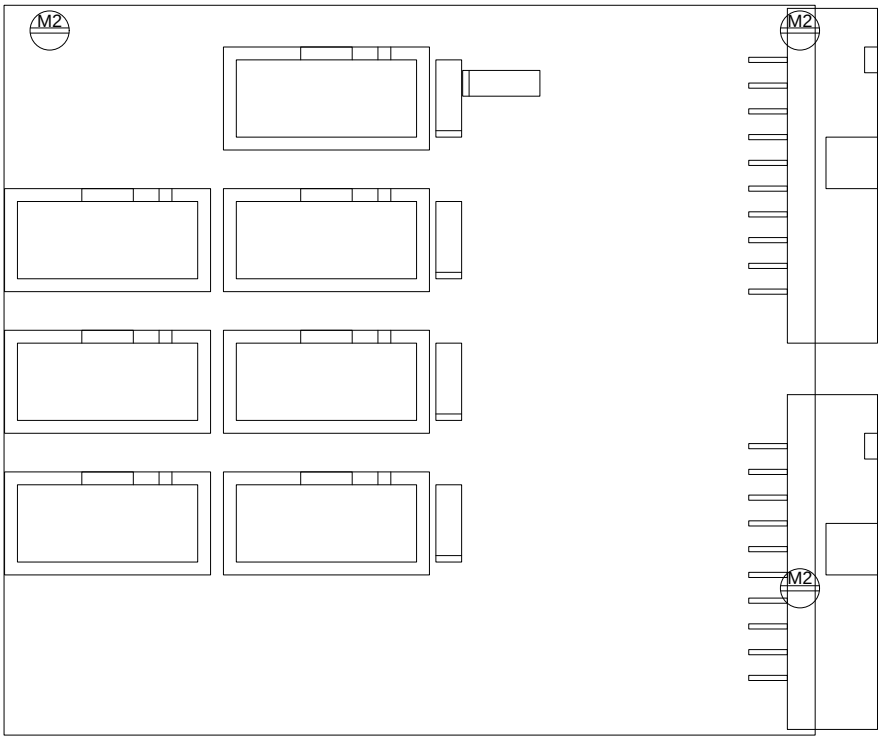
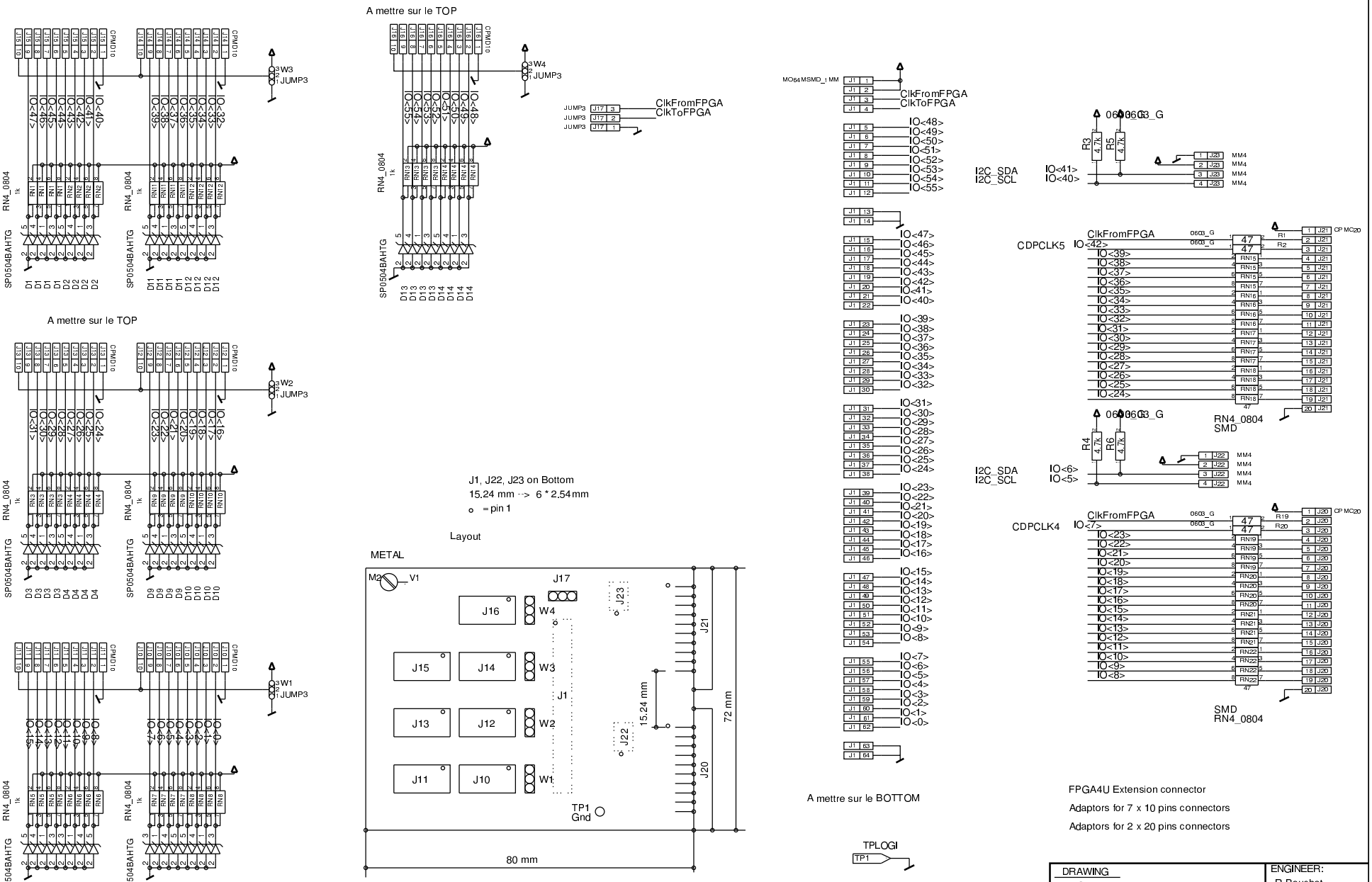
FPGA4UEXTPAR_B

LAP R.Beuchat
Phone: +41 21 693 3903
Mon Oct 29 09:55:14 MET 2007

MFG_DATE: 29.10.2007
QUANTITY: 5
SOLDERMASK: mtop mbot
MATERIAL: FR4 : 1.6 mm





DRAWING FPGA4UEXTPAR_B	ENGINEER: R.Beuchat
DATE: Mon Oct 29 08:01:17 2007	PAGE: 1/1 acort cuser

Signal Page Ref FPGA4UEXTPAR_B

Ref Des	Pages
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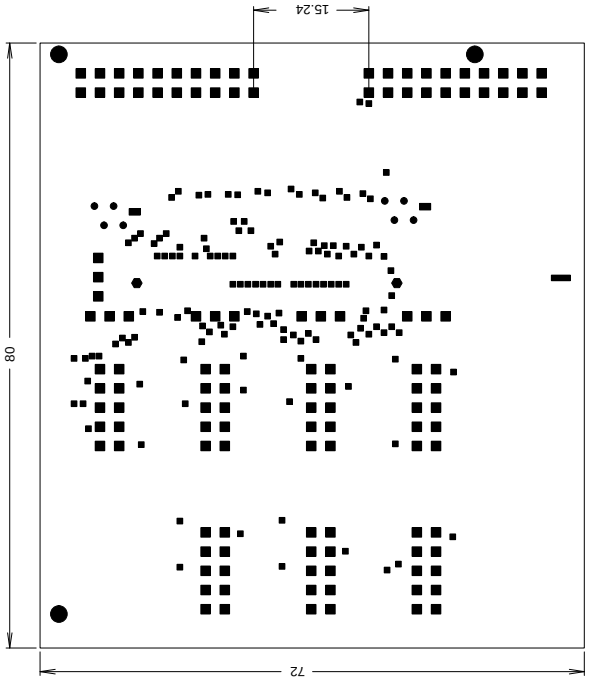
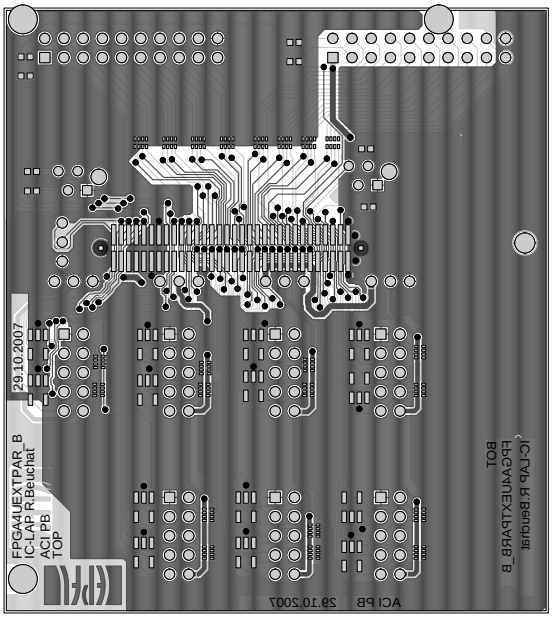
Total Signals count 58



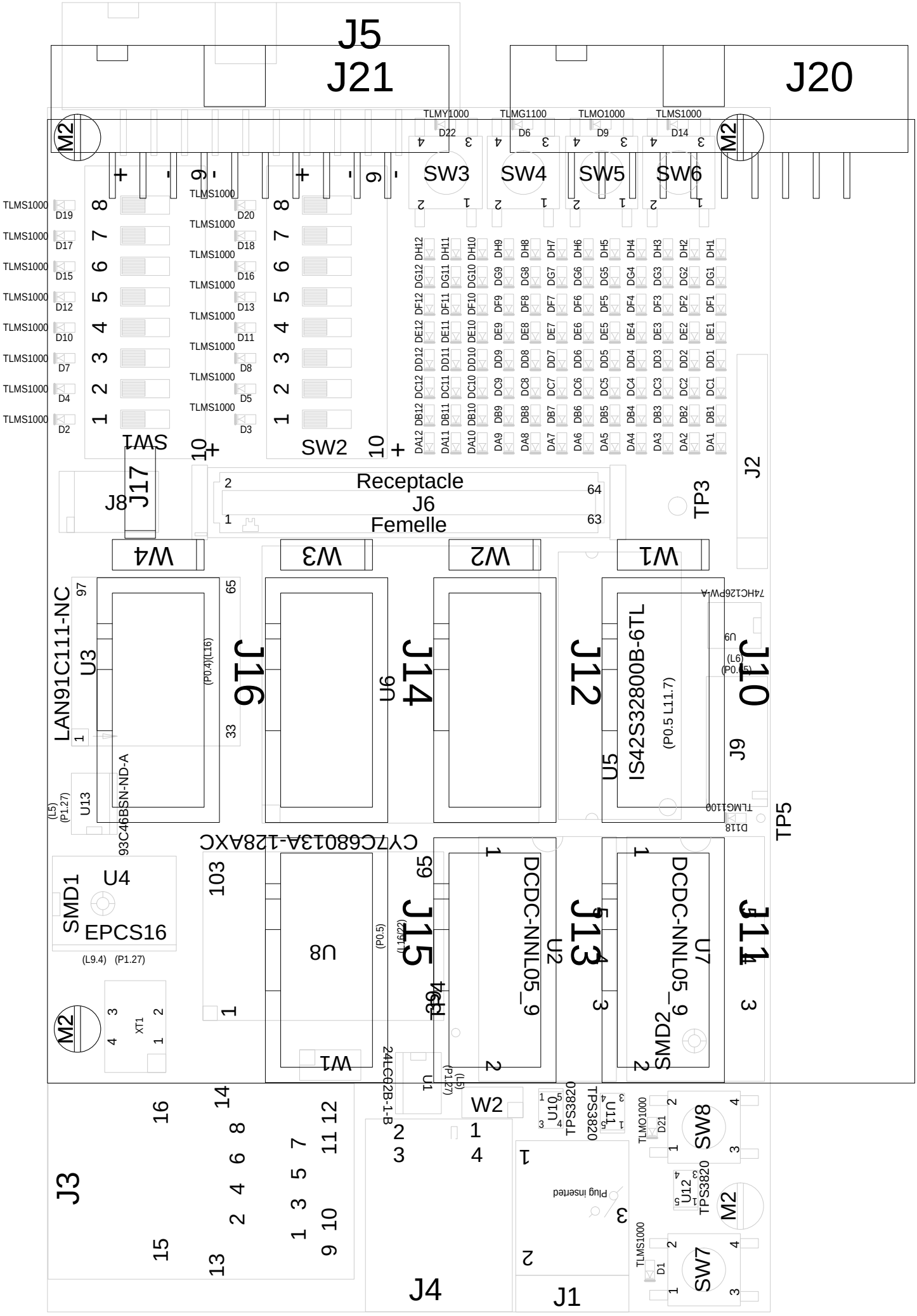
DRILL CHART

FIGURE	SIZE	PLATED	QTY
·	0.301	PLATED	140
●	0.787	PLATED	8
■	0.889	PLATED	125
■	0.94	PLATED	1
■	1.499	PLATED	2
●	2.2	PLATED	3
⬣	1.4	NOT PLATED	2

TITRE:FPGA4UEXTPAR	LABORATOIRE:IC-LAP	DATE:24.8.2007
	ENGINEER:R.Beuchat	EPFL-ACORT-PB



TITRE:FPGA4UEXTPAR	LABORATOIRE:IC-LAP	DATE:24.8.2007
	ENGINEER:R.Beuchat	EPFL-ACORT-PB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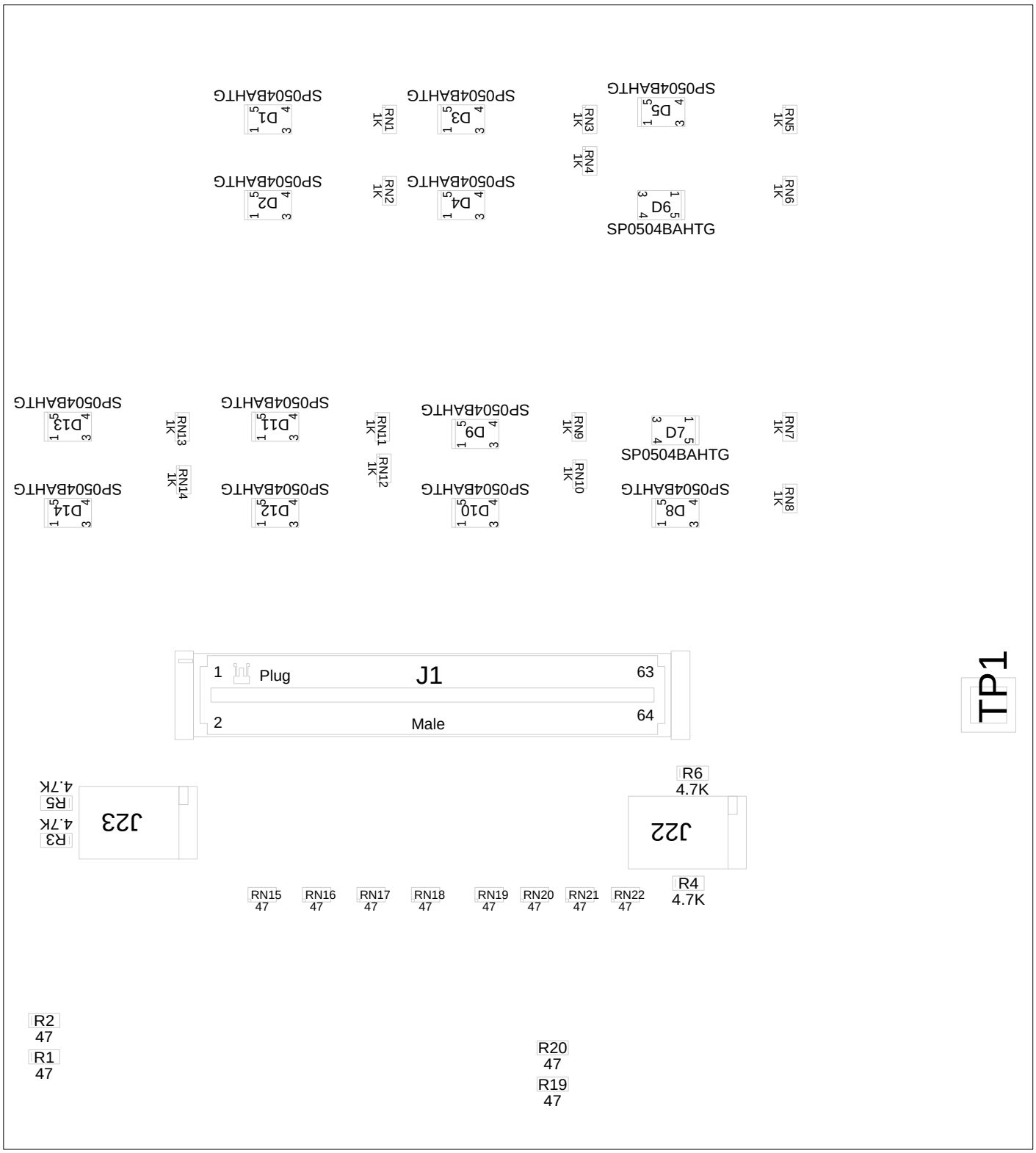
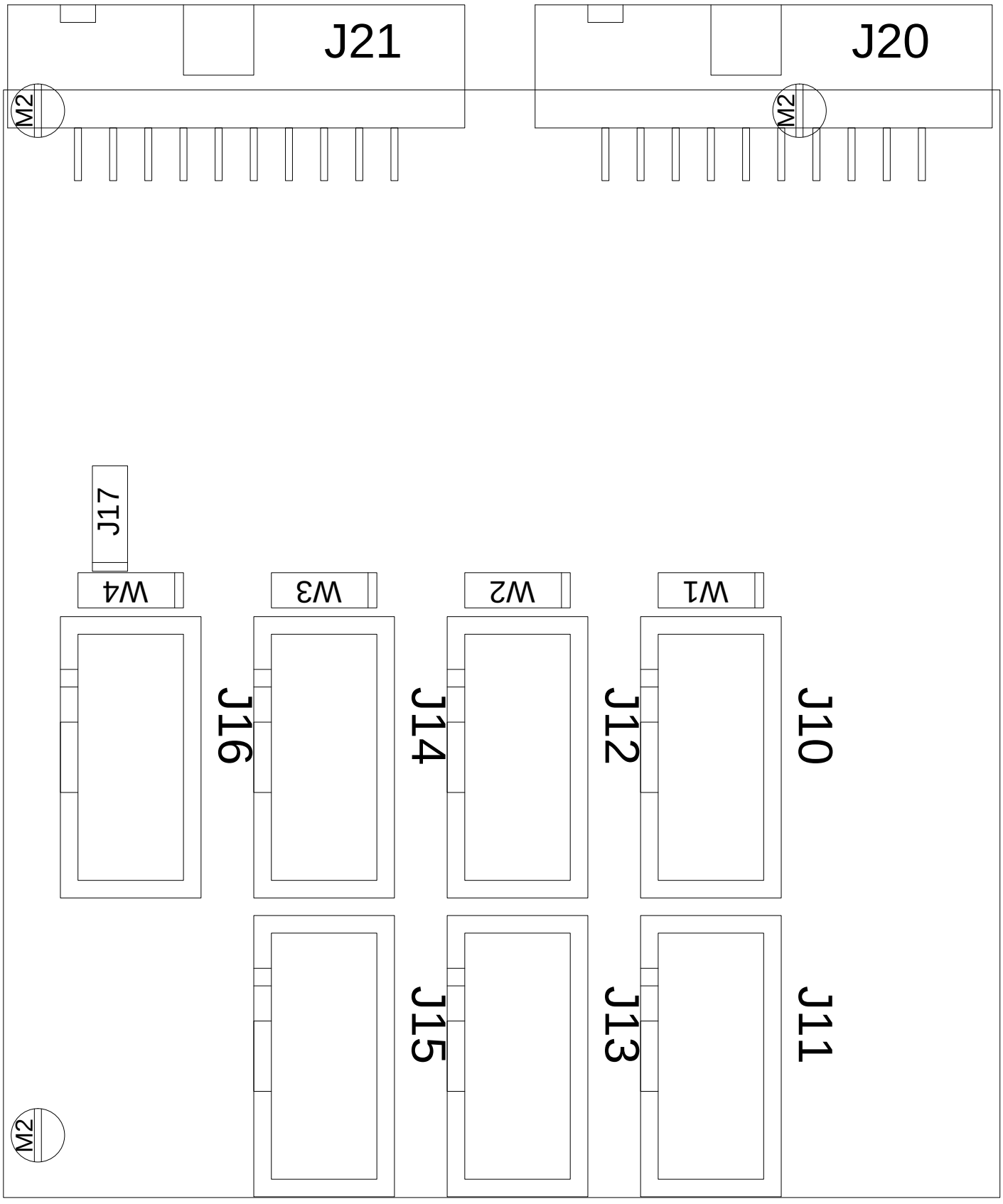
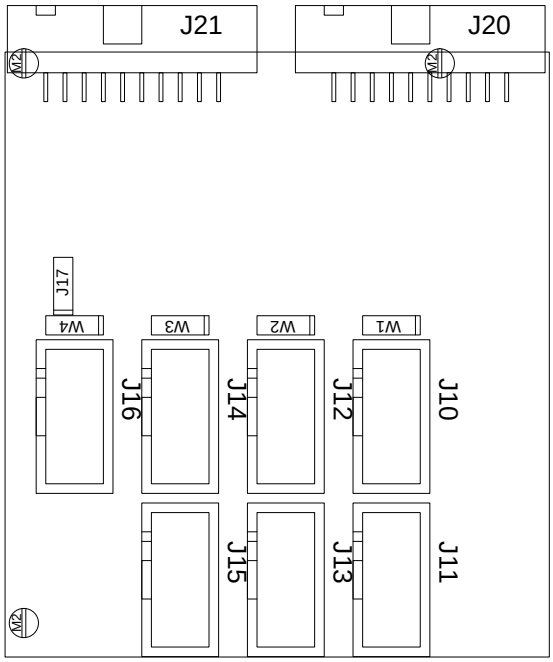
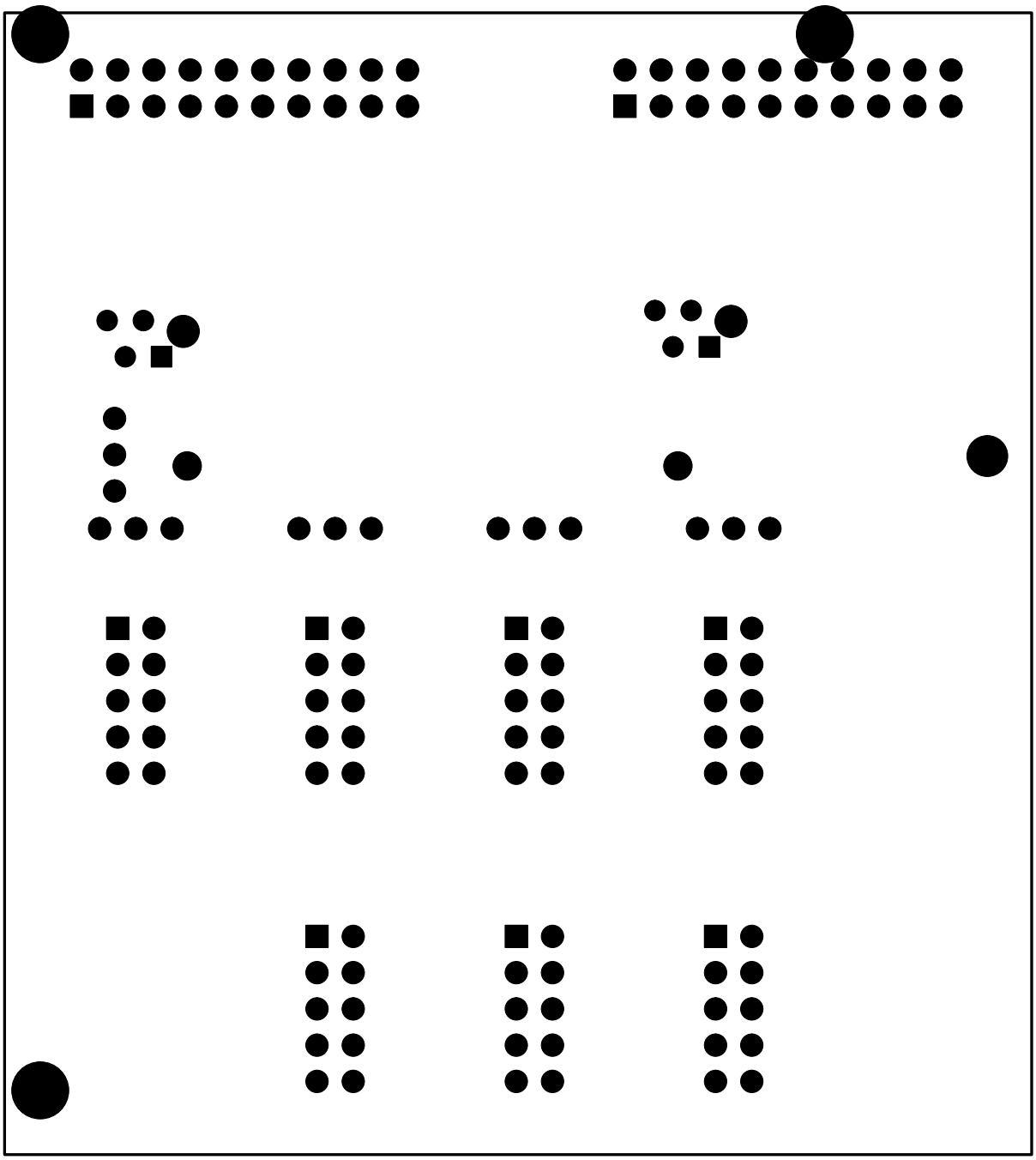
J21
J20
M2
TLMY1000
TLMG1100
TLMO1000
TLMS1000
D22
D6
D9
D14
SW3
SW4
SW5
SW6
SW1
SW2
J17
J8
Receptacle
J6
Femelle
J2
TP3
W4
W3
W2
W1
LAN91C111-NC
U3
J16
J14
U6
J12
IS42S32800B-6TL
(P0.5 L11.7)
U5
J9
J10
74HC126PWA
U9
TLMG1100
D118
TP5
93C46BSN-ND-A
U13
CY7C68013A-128AXC
SMD1
U4
EPCS16
(L9.4) (P1.27)
XT1
U8
J15
DCDC-NNL05_9
U2
J13
DCDC-NNL05_9
U7
J11
SMD2_
24LC02B-I_B
U1
W2
TPS3820
U10
U11
U12
TLMO1000
D21
SW8
SW7
D1
Plug inserted
J3
J4
J1
M2
Page 7
EPFL ACORT Mon 29.10.2007 9:54 Drawing name = FPGA4UEXTPAR_B Scale = 2.51 0.398 Inch =

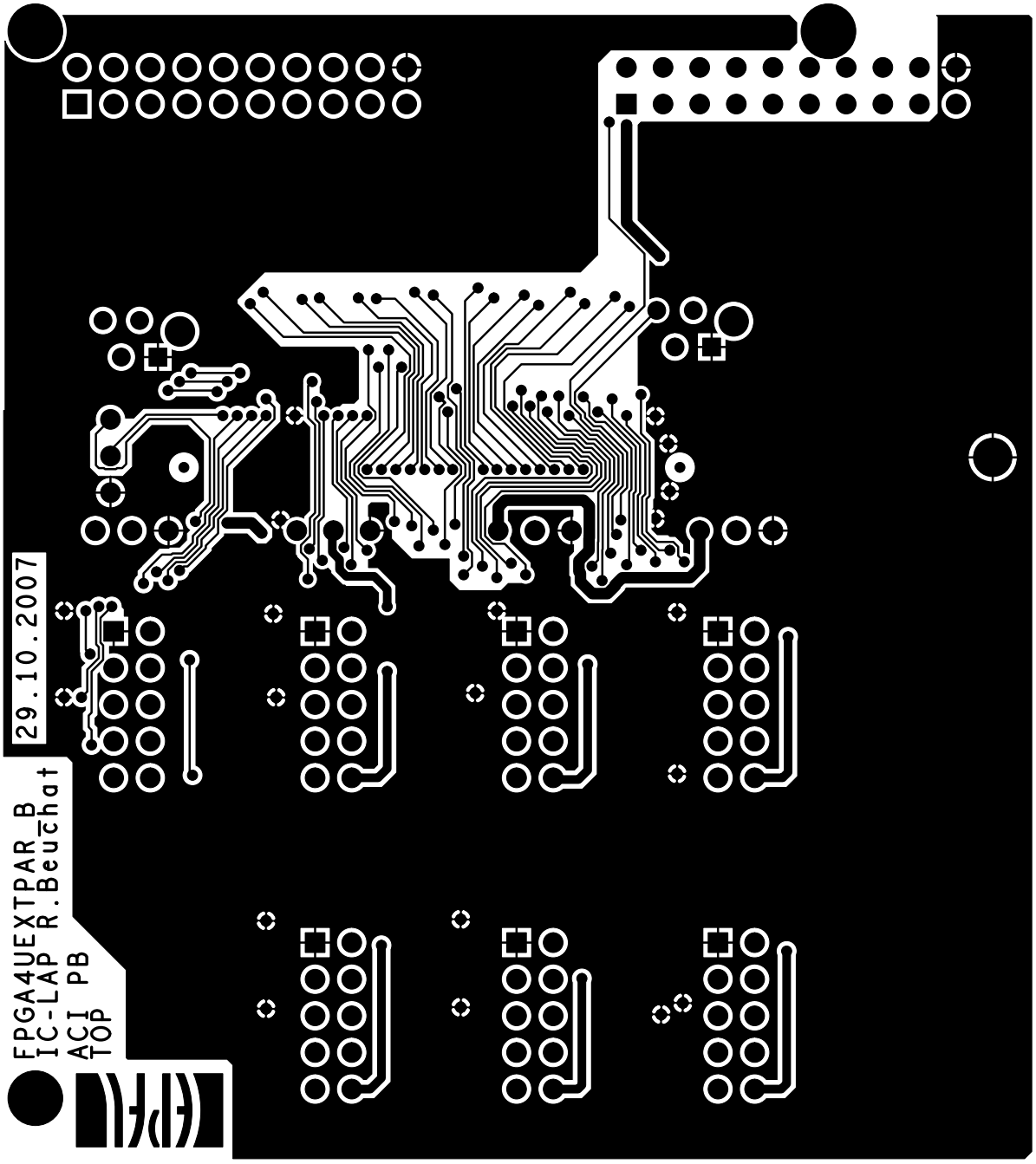

SP0504BAHTG
D1
D2
D3
D4
D5
D6
SP0504BAHTG
RN1 1K
RN2 1K
RN3 1K
RN4 1K
RN5 1K
RN6 1K
SP0504BAHTG
D7
D8
D9
D10
D11
D12
D13
D14
RN7 1K
RN8 1K
RN9 1K
RN10 1K
RN11 1K
RN12 1K
RN13 1K
RN14 1K
1
Plug
J1
63
2
Male
64
TP1
R6
4.7K
J22
R4
4.7K
RN15 47
RN16 47
RN17 47
RN18 47
RN19 47
RN20 47
RN21 47
RN22 47
J23
R5
4.7K
R3
4.7K
R2
47
R1
47
R20
47
R19
47

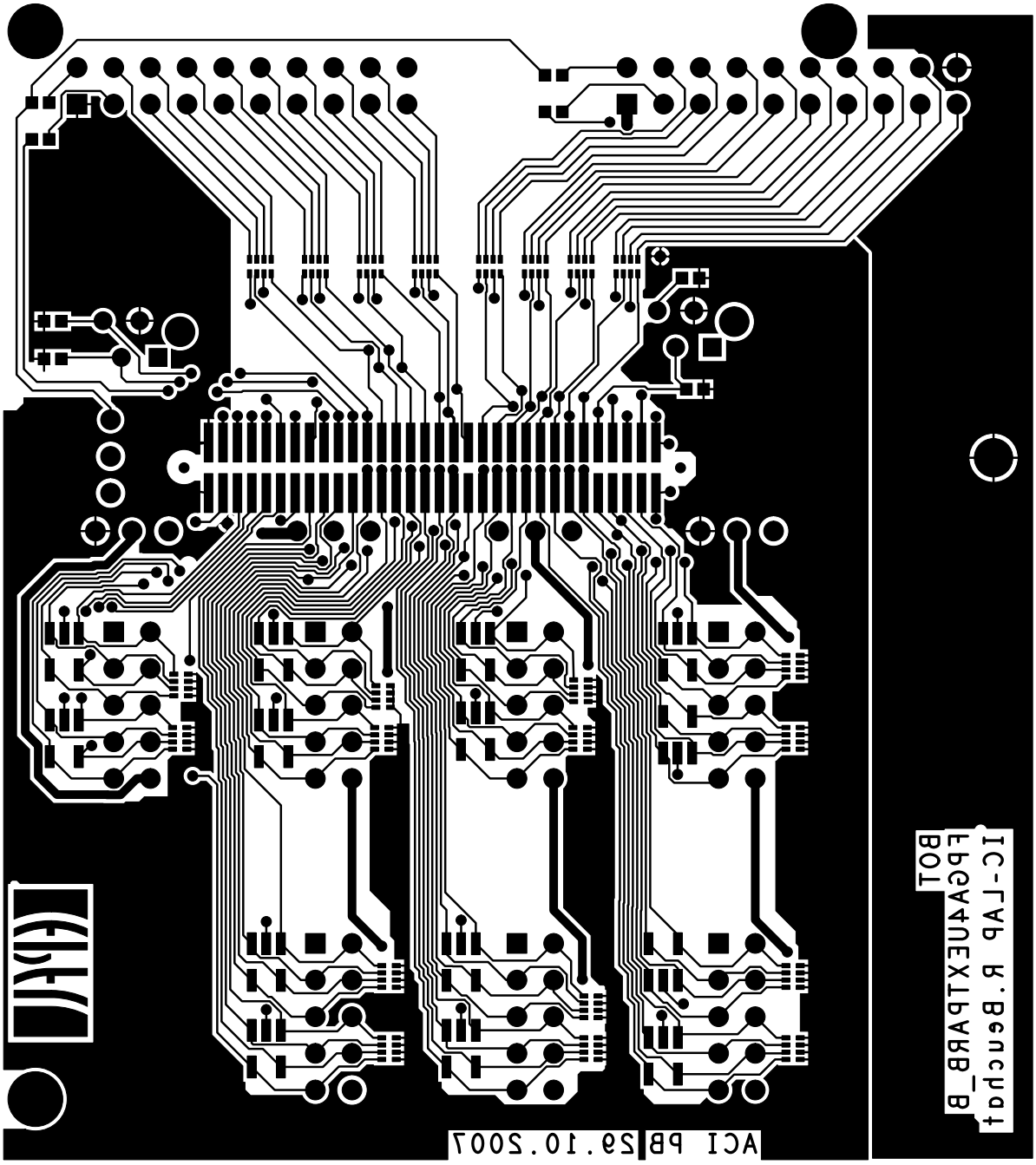

J21
J20
M2
M2
J17
W4
W3
W2
W1
J16
J14
J12
J10
J15
J13
J11
M2



TITRE:FPGA4UEXTPAR	LABORATOIRE:IC-LAP	DATE:24.8.2007
	ENGINEER:R.Beuchat	EPFL-ACORT-PB




FPGA4UEXTPAR_B
IC-LAP R.Beuchat
ACI PB
TOP
29.10.2007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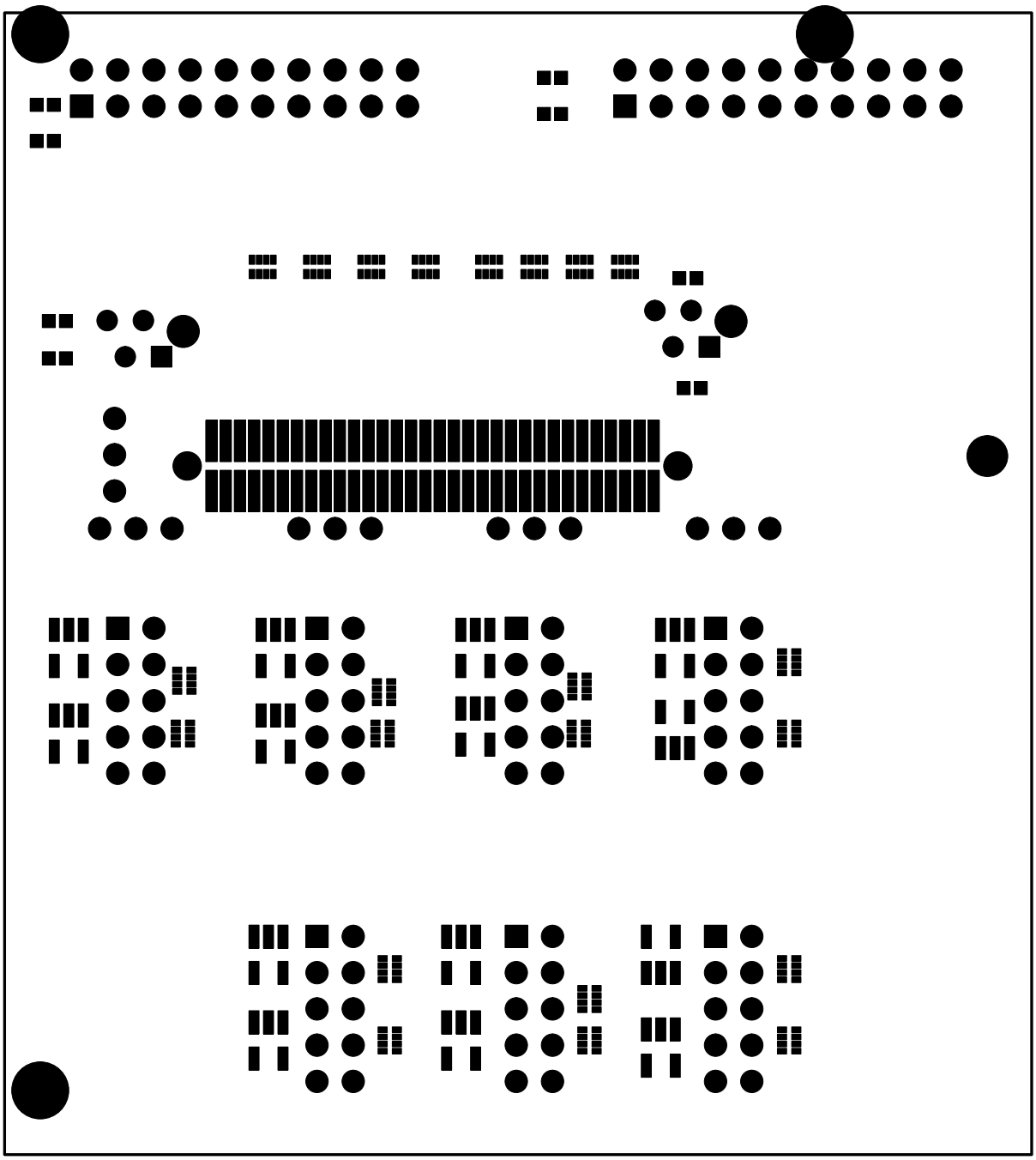
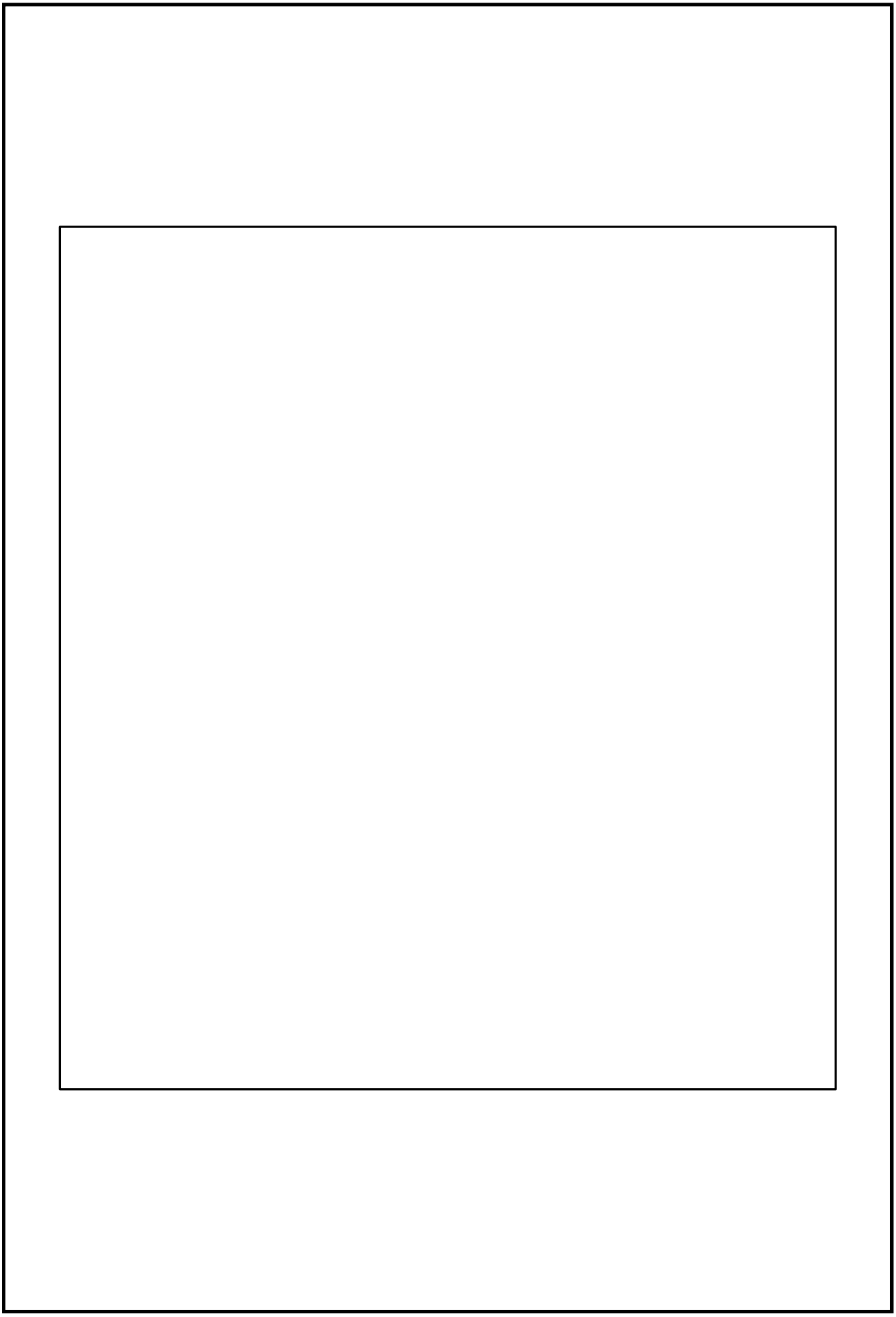
IC-LAP R.Beuchat
FPGA4UEXTPARB_B
BOT





Component Report FPGA4UEXTPAR_B

fpga4uextparb_gloss — Mon Oct 29 09:55:19 MET 2007

Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
D1	SP0504BAHTG	SP0504BAHTG	SOT23_5	27.000	41.500	0.000	YES	
D2	SP0504BAHTG	SP0504BAHTG	SOT23_5	33.000	41.500	0.000	YES	
D3	SP0504BAHTG	SP0504BAHTG	SOT23_5	27.000	28.000	0.000	YES	
D4	SP0504BAHTG	SP0504BAHTG	SOT23_5	33.000	28.000	0.000	YES	
D5	SP0504BAHTG	SP0504BAHTG	SOT23_5	26.500	14.000	0.000	YES	
D6	SP0504BAHTG	SP0504BAHTG	SOT23_5	33.000	14.000	180.000	YES	
D7	SP0504BAHTG	SP0504BAHTG	SOT23_5	48.750	13.000	180.000	YES	
D8	SP0504BAHTG	SP0504BAHTG	SOT23_5	54.500	13.000	0.000	YES	
D9	SP0504BAHTG	SP0504BAHTG	SOT23_5	49.000	27.000	0.000	YES	
D10	SP0504BAHTG	SP0504BAHTG	SOT23_5	54.500	27.000	0.000	YES	
D11	SP0504BAHTG	SP0504BAHTG	SOT23_5	48.500	41.000	0.000	YES	
D12	SP0504BAHTG	SP0504BAHTG	SOT23_5	54.500	41.000	0.000	YES	
D13	SP0504BAHTG	SP0504BAHTG	SOT23_5	48.500	55.500	0.000	YES	
D14	SP0504BAHTG	SP0504BAHTG	SOT23_5	54.500	55.500	0.000	YES	
J1	CO64		MO64MSMD_1MM	67.250	30.000	90.000	YES	
J10	CO10		CPMD10	55.880	10.160	180.000	NO	
J11	CO10		CPMD10	34.290	10.160	180.000	NO	
J12	CO10		CPMD10	55.880	24.130	180.000	NO	
J13	CO10		CPMD10	34.290	24.130	180.000	NO	
J14	CO10		CPMD10	55.880	38.100	180.000	NO	
J15	CO10		CPMD10	34.290	38.100	180.000	NO	
J16	CO10		CPMD10	55.880	52.070	180.000	NO	
J17	CO3		JUMP3	65.500	49.750	0.000	NO	
J20	CO20		CPMC20	92.450	16.510	270.000	NO	
J21	CO20		CPMC20	92.450	54.610	270.000	NO	
J22	CO4		MM4	75.600	10.600	270.000	YES	
J23	CO4		MM4	74.900	49.000	270.000	YES	
R1	R	47	0603_G	92.550	57.150	0.000	YES	
R2	R	47	0603_G	90.010	57.150	0.000	YES	
R3	R	4.7K	0603_G	77.400	56.300	180.000	YES	
R4	R	4.7K	0603_G	80.400	12.100	0.000	YES	
R5	R	4.7K	0603_G	74.800	56.300	180.000	YES	
R6	R	4.7K	0603_G	72.700	11.800	0.000	YES	
R19	R	47	0603_G	94.455	21.590	0.000	YES	
R20	R	47	0603_G	91.915	21.590	0.000	YES	
RN1	RN0805	1K	RN4_0804	27.000	33.000	90.000	YES	
RN2	RN0805	1K	RN4_0804	32.000	33.000	90.000	YES	
RN3	RN0805	1K	RN4_0804	27.000	19.000	90.000	YES	
RN4	RN0805	1K	RN4_0804	29.900	19.000	90.000	YES	
RN5	RN0805	1K	RN4_0804	27.000	5.000	90.000	YES	
RN6	RN0805	1K	RN4_0804	32.000	5.000	90.000	YES	
RN7	RN0805	1K	RN4_0804	48.500	5.000	90.000	YES	
RN8	RN0805	1K	RN4_0804	53.500	5.000	90.000	YES	
RN9	RN0805	1K	RN4_0804	48.500	19.750	90.000	YES	
RN10	RN0805	1K	RN4_0804	51.800	19.700	90.000	YES	
RN11	RN0805	1K	RN4_0804	48.500	33.500	90.000	YES	
RN12	RN0805	1K	RN4_0804	51.400	33.400	90.000	YES	
RN13	RN0805	1K	RN4_0804	48.500	47.500	90.000	YES	
RN14	RN0805	1K	RN4_0804	52.200	47.400	90.000	YES	
RN15	RN0805	47	RN4_0804	81.200	41.910	0.000	YES	
RN16	RN0805	47	RN4_0804	81.200	38.100	0.000	YES	
RN17	RN0805	47	RN4_0804	81.200	34.290	0.000	YES	
RN18	RN0805	47	RN4_0804	81.200	30.480	0.000	YES	
RN19	RN0805	47	RN4_0804	81.200	26.035	0.000	YES	
RN20	RN0805	47	RN4_0804	81.200	22.860	0.000	YES	
RN21	RN0805	47	RN4_0804	81.200	19.685	0.000	YES	
RN22	RN0805	47	RN4_0804	81.200	16.510	0.000	YES	
TP1	TP		TPLOGI	67.945	-8.890	0.000	YES	

Component Report FPGA4UEXTPAR_B

fpga4uextparb_gloss Mon Oct 29 09:55:19 MET 2007

Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
V1	VIS_METAL		VIS2	23.500	57.500	0.000	NO	
W1	JUMP3		JUMP3	65.405	6.350	90.000	NO	
W2	JUMP3		JUMP3	65.405	20.320	90.000	NO	
W3	JUMP3		JUMP3	65.405	34.290	90.000	NO	
W4	JUMP3		JUMP3	65.405	48.260	90.000	NO	

Total Component count 63

BOM Report FPGA4UEXTPAR_B

fpga4uextparb_gloss — Mon Oct 29 09:55:20 MET 2007

Device	Package	Value	Nb	Reference Designators					Remark
CO10-CPMD10	CPMD10		7	J10	J11	J12	J13	J14	
				J15	J16				
CO20-CPMC20	CPMC20		2	J20	J21				
CO3-JUMP3	JUMP3		1	J17					
CO4-MM4	MM4		2	J22	J23				
CO64-MO64MSMD_1MM	MO64MSMD_1MM		1	J1					
JUMP3-1	JUMP3		4	W1	W2	W3	W4		
R-0603_G-4.7K	0603_G	4.7K	4	R3	R4	R5	R6		
R-0603_G-47	0603_G	47	4	R1	R2	R19	R20		
RN0805-1-1K	RN4_0804	1K	14	RN1	RN2	RN3	RN4	RN5	
				RN6	RN7	RN8	RN9	RN10	
				RN11	RN12	RN13	RN14		
RN0805-1-47	RN4_0804	47	8	RN15	RN16	RN17	RN18	RN19	
				RN20	RN21	RN22			
SP0504BAHTG-SP0504BA	SOT23_5	SP0504BAHTG	14	D1	D2	D3	D4	D5	
				D6	D7	D8	D9	D10	
				D11	D12	D13	D14		
TP-4	TPLOGI		1	TP1					
VIS_METAL-M2	VIS2		1	V1					

Total Component count 63

NC Pins Report FPGA4UEXTPAR_B

fpga4uextparb_gloss Mon Oct 29 09:55:20 MET 2007

Ref Des	Device	Nb	Not Connected Pins	Remark
V1	VIS_METAL-M2	1	1	
	Total count 1			

Power Pins Report FPGA4UEXTPAR_B

fpga4uextparb_gloss Mon Oct 29 09:55:21 MET 2007

Ref Des	Device	Name	Power Pins	Remark
D1	SP0504BAHTG-SP0504BA	GND	2	
D2	SP0504BAHTG-SP0504BA	GND	2	
D3	SP0504BAHTG-SP0504BA	GND	2	
D4	SP0504BAHTG-SP0504BA	GND	2	
D5	SP0504BAHTG-SP0504BA	GND	2	
D6	SP0504BAHTG-SP0504BA	GND	2	
D7	SP0504BAHTG-SP0504BA	GND	2	
D8	SP0504BAHTG-SP0504BA	GND	2	
D9	SP0504BAHTG-SP0504BA	GND	2	
D10	SP0504BAHTG-SP0504BA	GND	2	
D11	SP0504BAHTG-SP0504BA	GND	2	
D12	SP0504BAHTG-SP0504BA	GND	2	
D13	SP0504BAHTG-SP0504BA	GND	2	
D14	SP0504BAHTG-SP0504BA	GND	2	
J1	CO64-MO64MSMD_1MM	GND	13 14 63 64	
		VCC	1 2	
J10	CO10-CPMD10	GND	1	
J11	CO10-CPMD10	GND	1	
J12	CO10-CPMD10	GND	1	
J13	CO10-CPMD10	GND	1	
J14	CO10-CPMD10	GND	1	
J15	CO10-CPMD10	GND	1	
J16	CO10-CPMD10	GND	1	
J17	CO3-JUMP3	GND	1 20	
J20	CO20-CPMC20	VCC	1	
J21	CO20-CPMC20	GND	20	
		VCC	1	
J22	CO4-MM4	GND	1	
		VCC	2	
J23	CO4-MM4	GND	1	
		VCC	2	
RN1	RN0805-1-1K	VCC	2 4 6 8	
RN2	RN0805-1-1K	VCC	2 4 6 8	
RN3	RN0805-1-1K	VCC	2 4 6 8	
RN4	RN0805-1-1K	VCC	2 4 6 8	
RN5	RN0805-1-1K	VCC	2 4 6 8	
RN6	RN0805-1-1K	VCC	2 4 6 8	
RN7	RN0805-1-1K	VCC	2 4 6 8	
RN8	RN0805-1-1K	VCC	2 4 6 8	
RN9	RN0805-1-1K	VCC	2 4 6 8	
RN10	RN0805-1-1K	VCC	2 4 6 8	
RN11	RN0805-1-1K	VCC	2 4 6 8	
RN12	RN0805-1-1K	VCC	2 4 6 8	
RN13	RN0805-1-1K	VCC	2 4 6 8	
RN14	RN0805-1-1K	VCC	2 4 6 8	
TP1	TP-4	GND	1	
W1	JUMP3-1	GND	1	
		VCC	3	
W2	JUMP3-1	GND	1	
		VCC	3	
W3	JUMP3-1	GND	1	
		VCC	3	
W4	JUMP3-1	GND	1	
		VCC	3	
Total count 46				

Single Node Nets Report FPGA4UEXTPAR_B

fpga4uextparb_gloss Mon Oct 29 09:55:22 MET 2007

Netname	Node	Device	Remark

Total Nets count 0