

JESD204B ADC Evaluation Board Schematics:

ADC1443D125W1-DB

ADC1443D160W1-DB

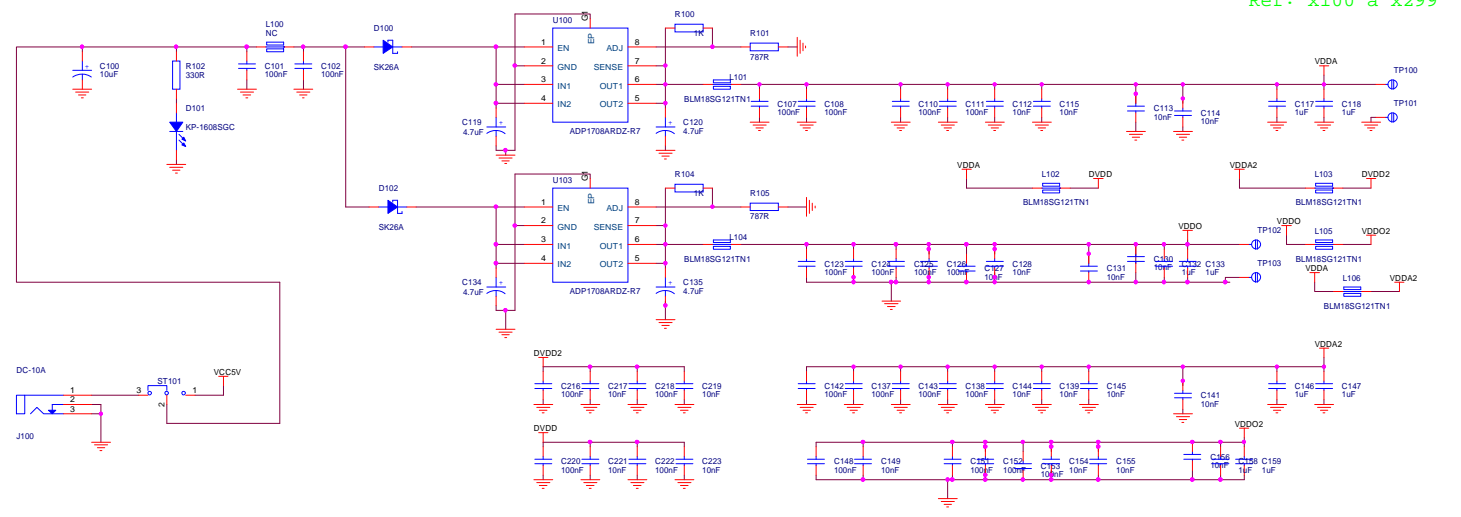
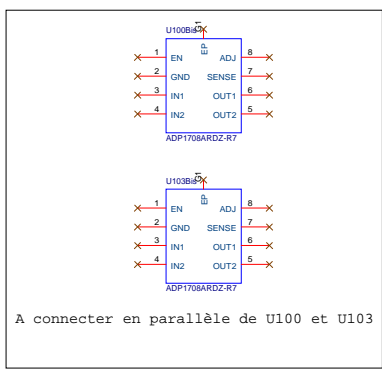
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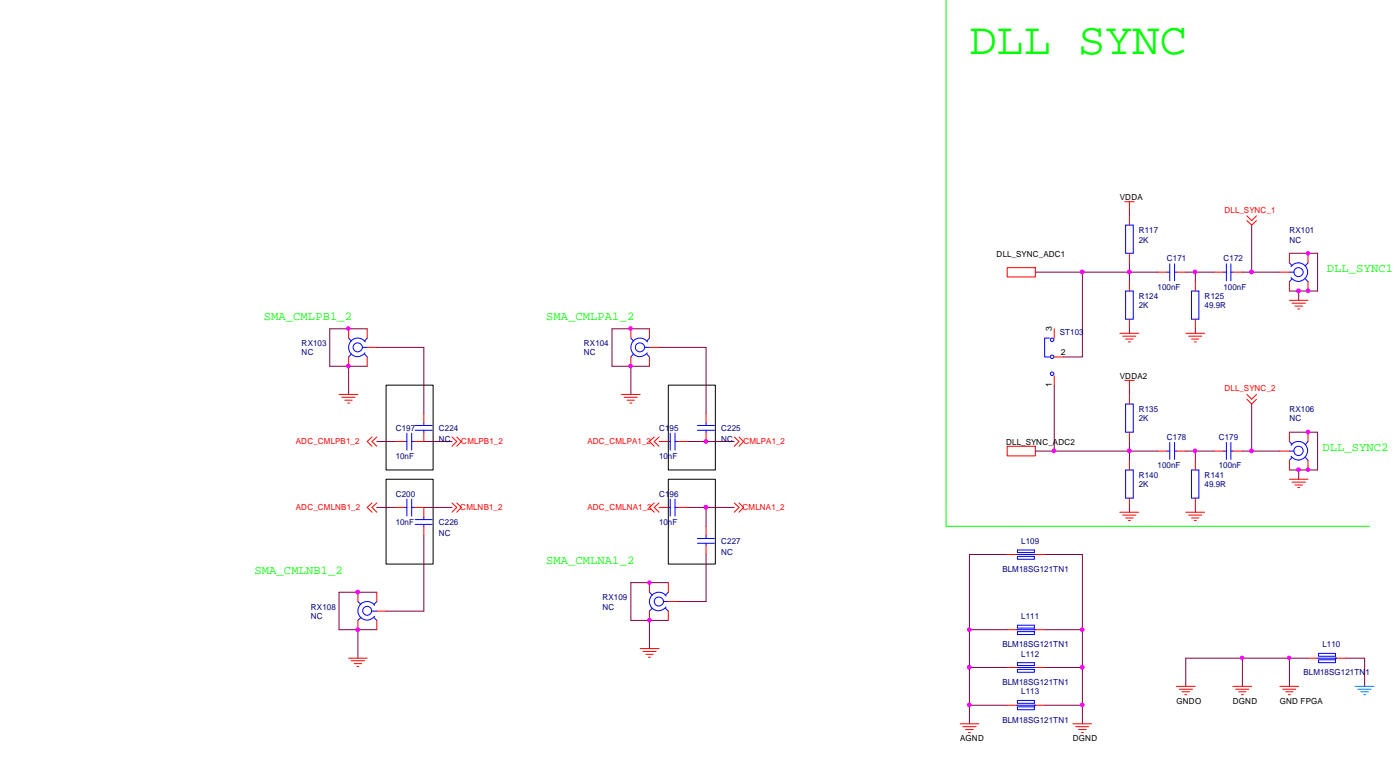
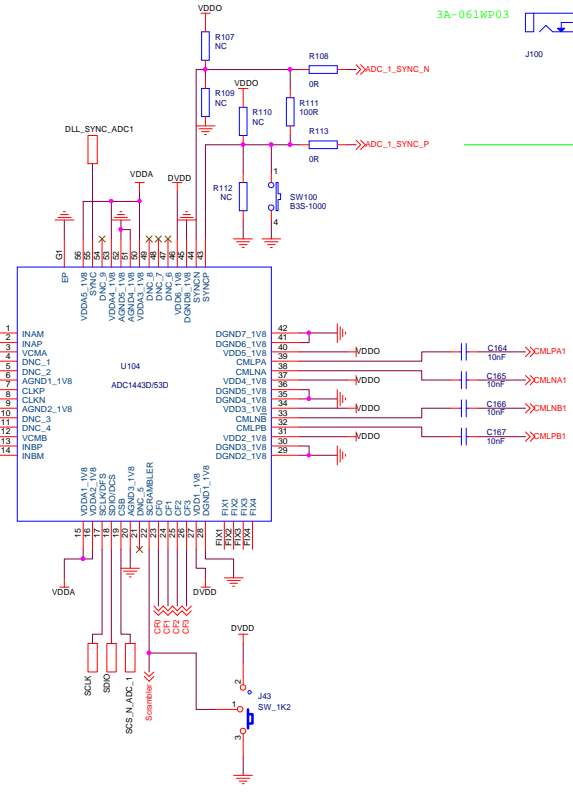
BSX0254-2.a

On board FPGA, Arria II GX

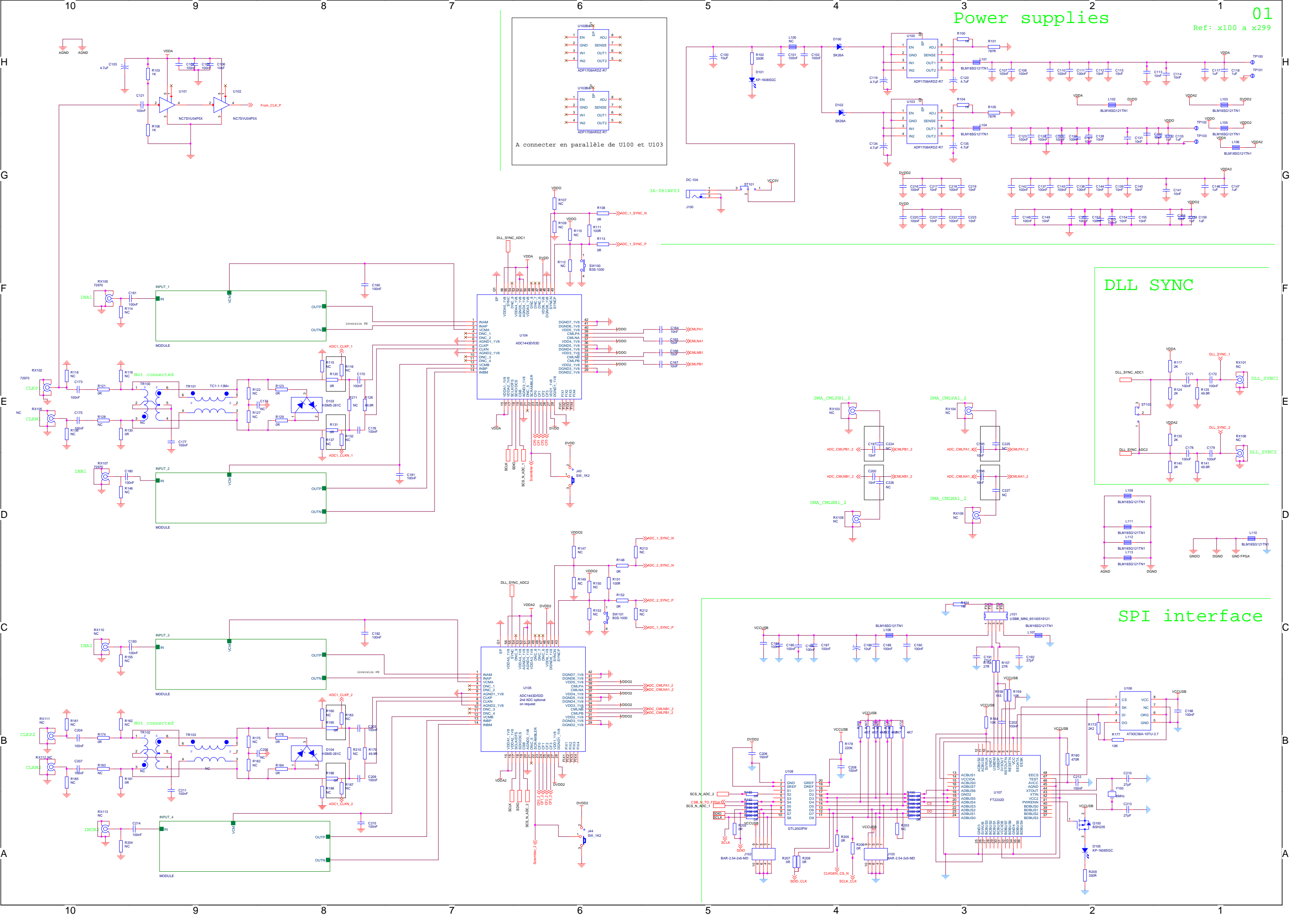
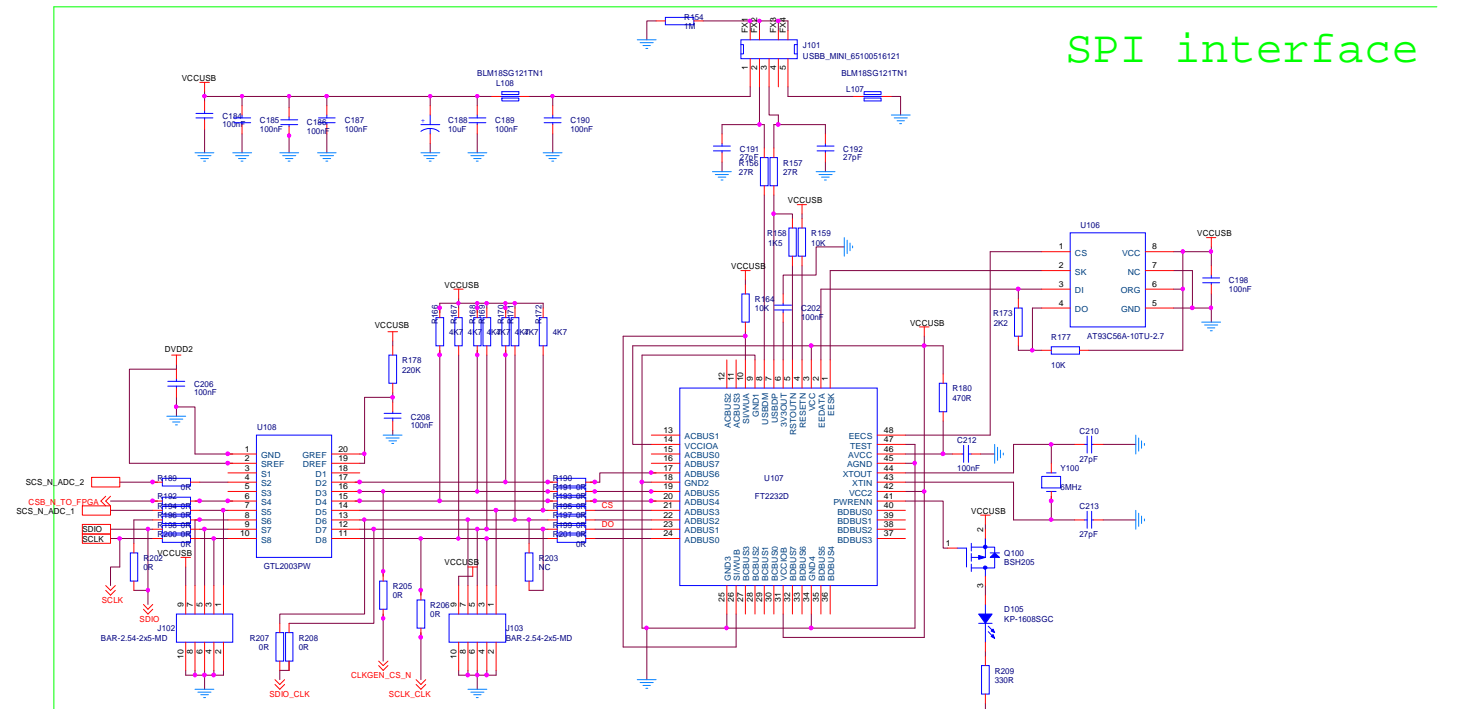
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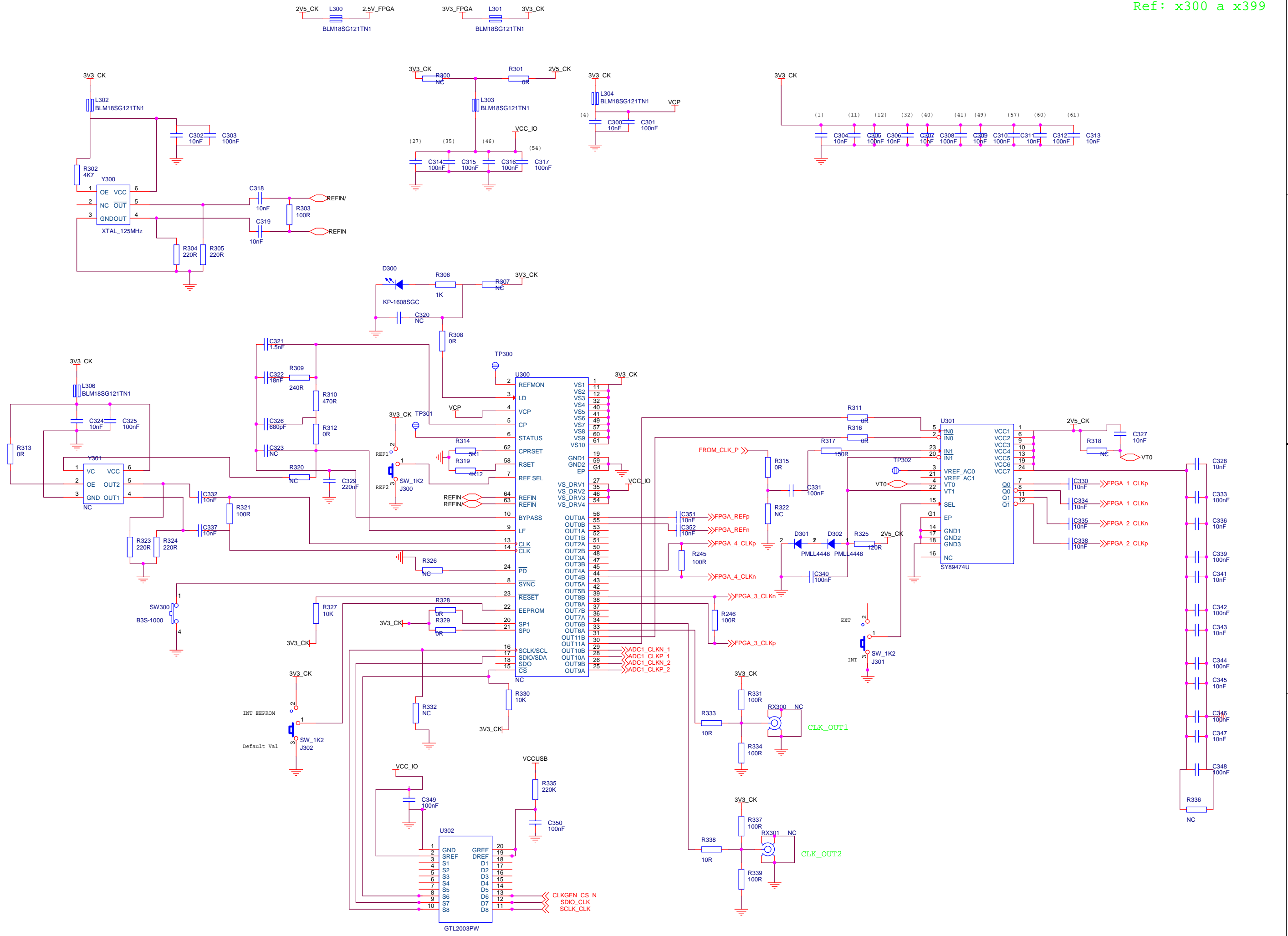


DLL SYNC

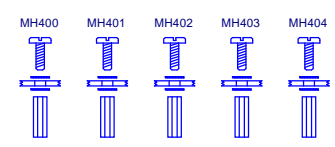
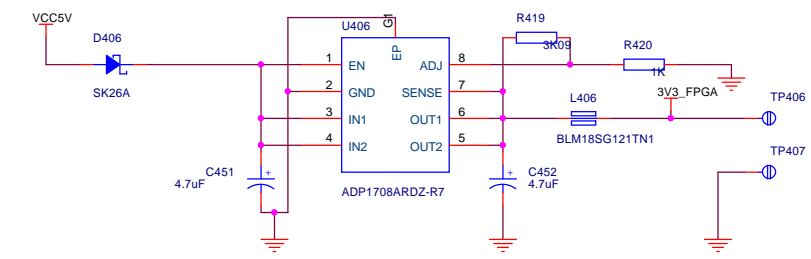
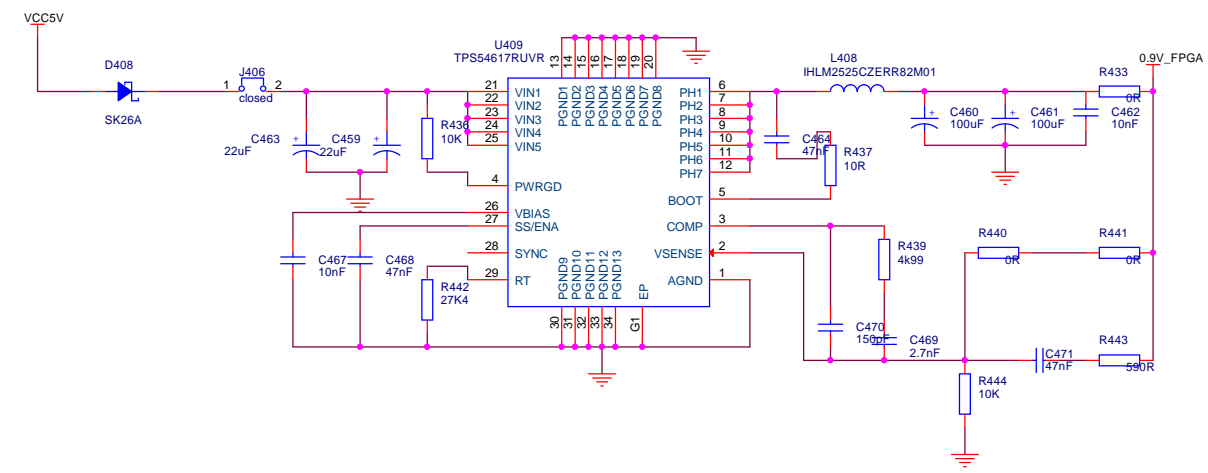
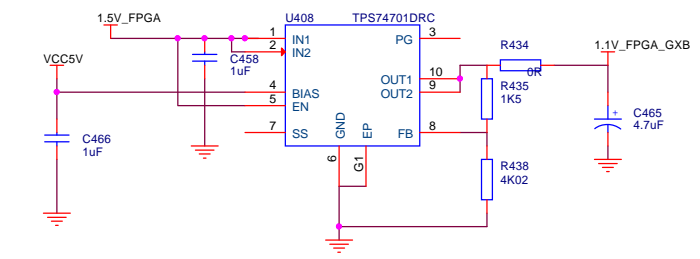
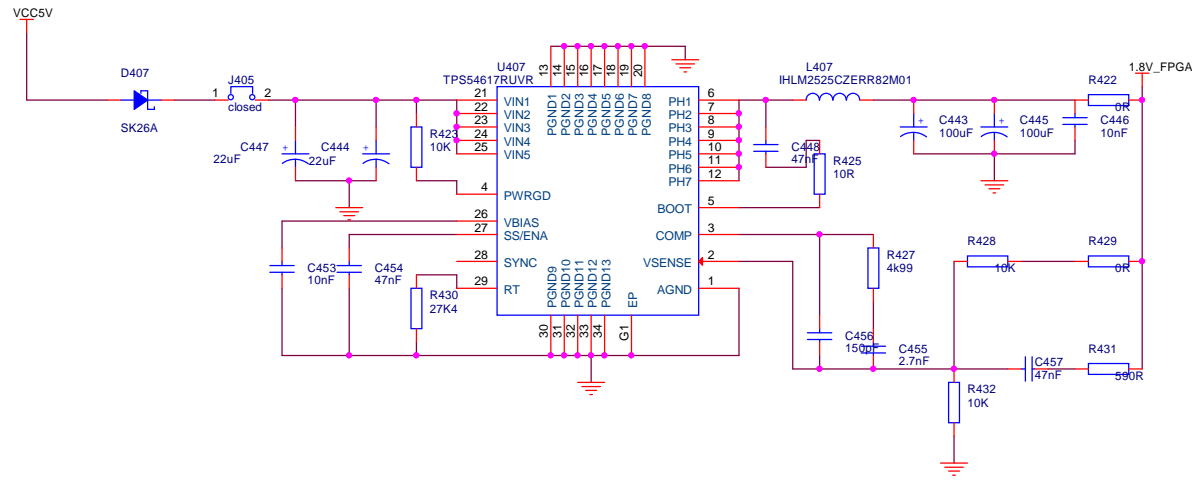
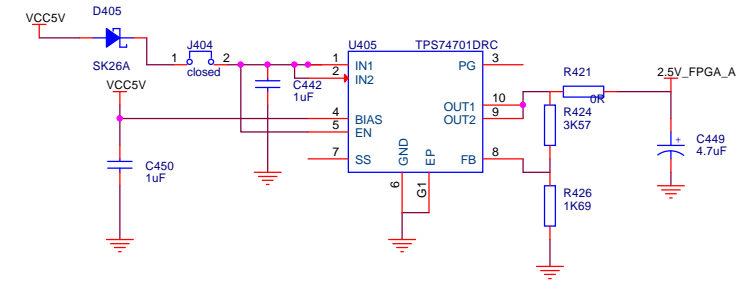
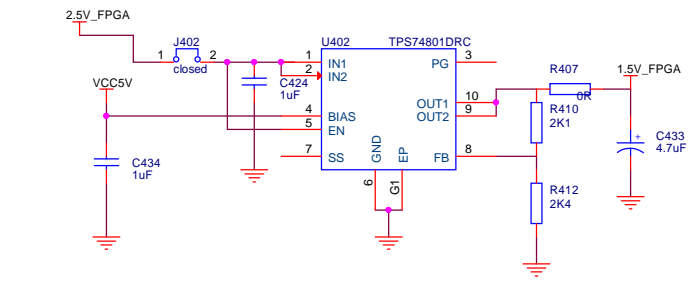
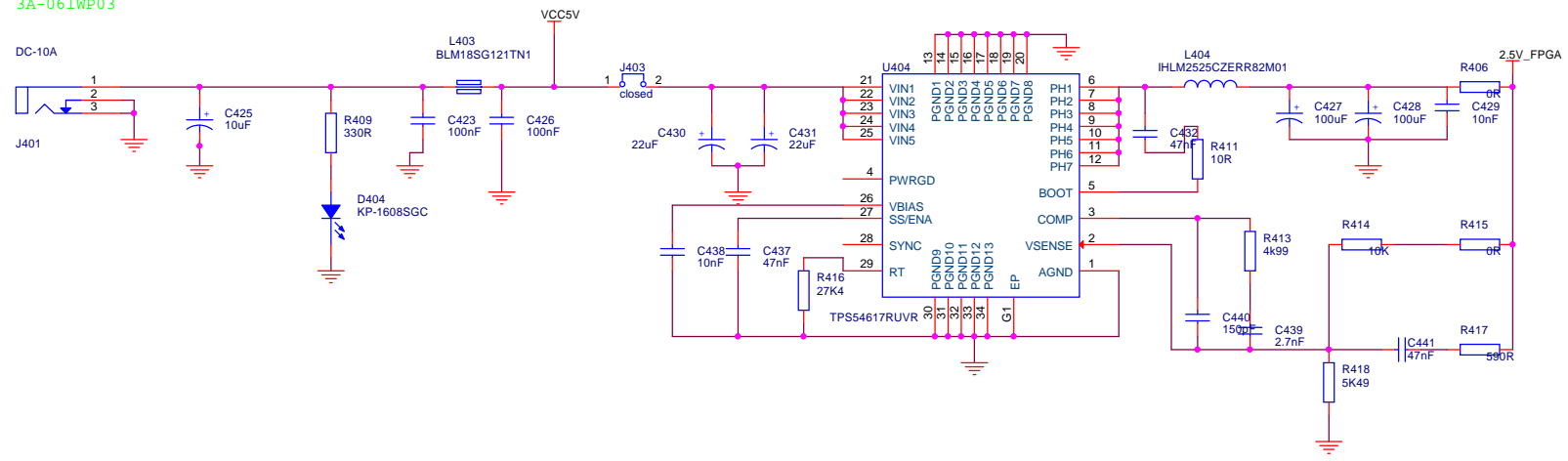


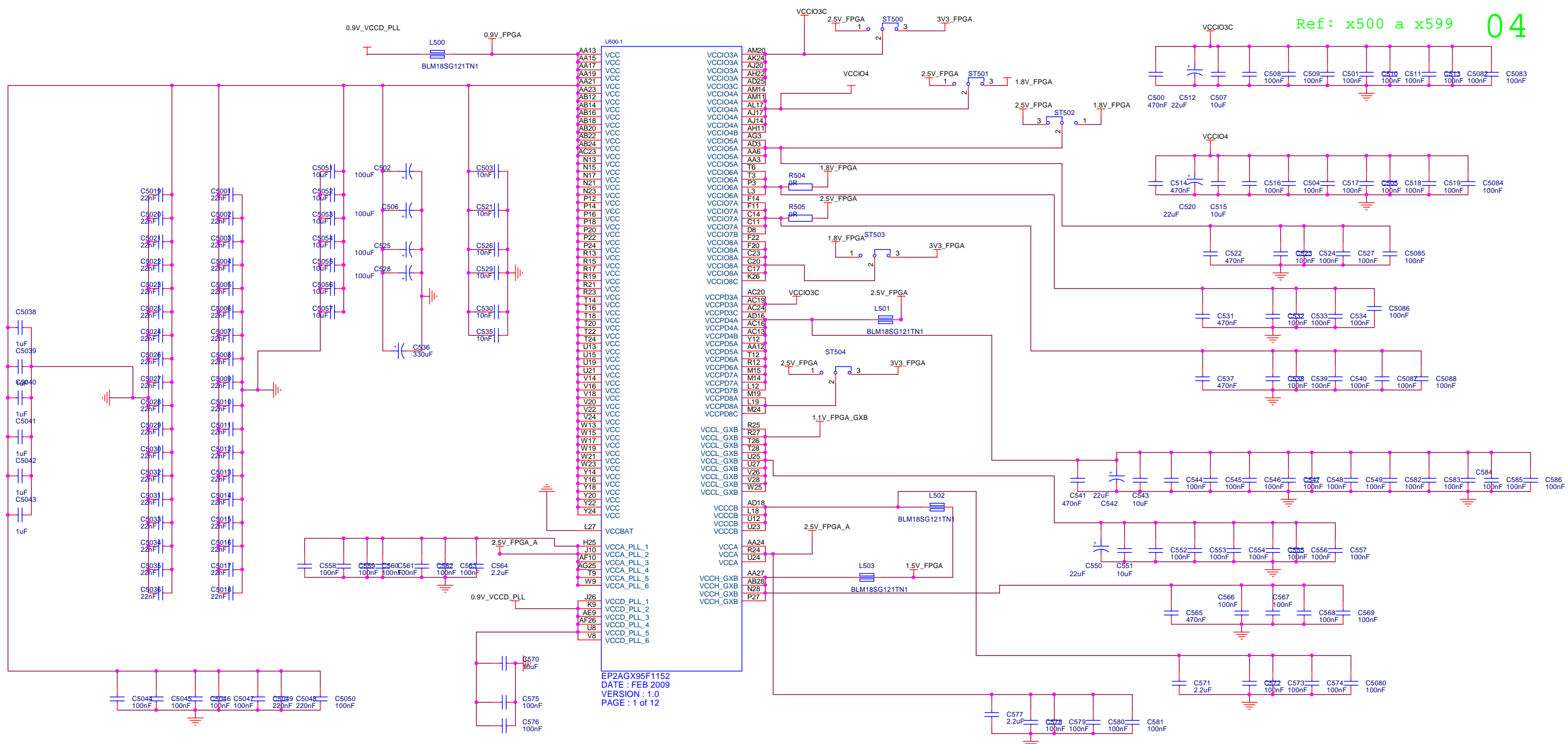
SPI interface





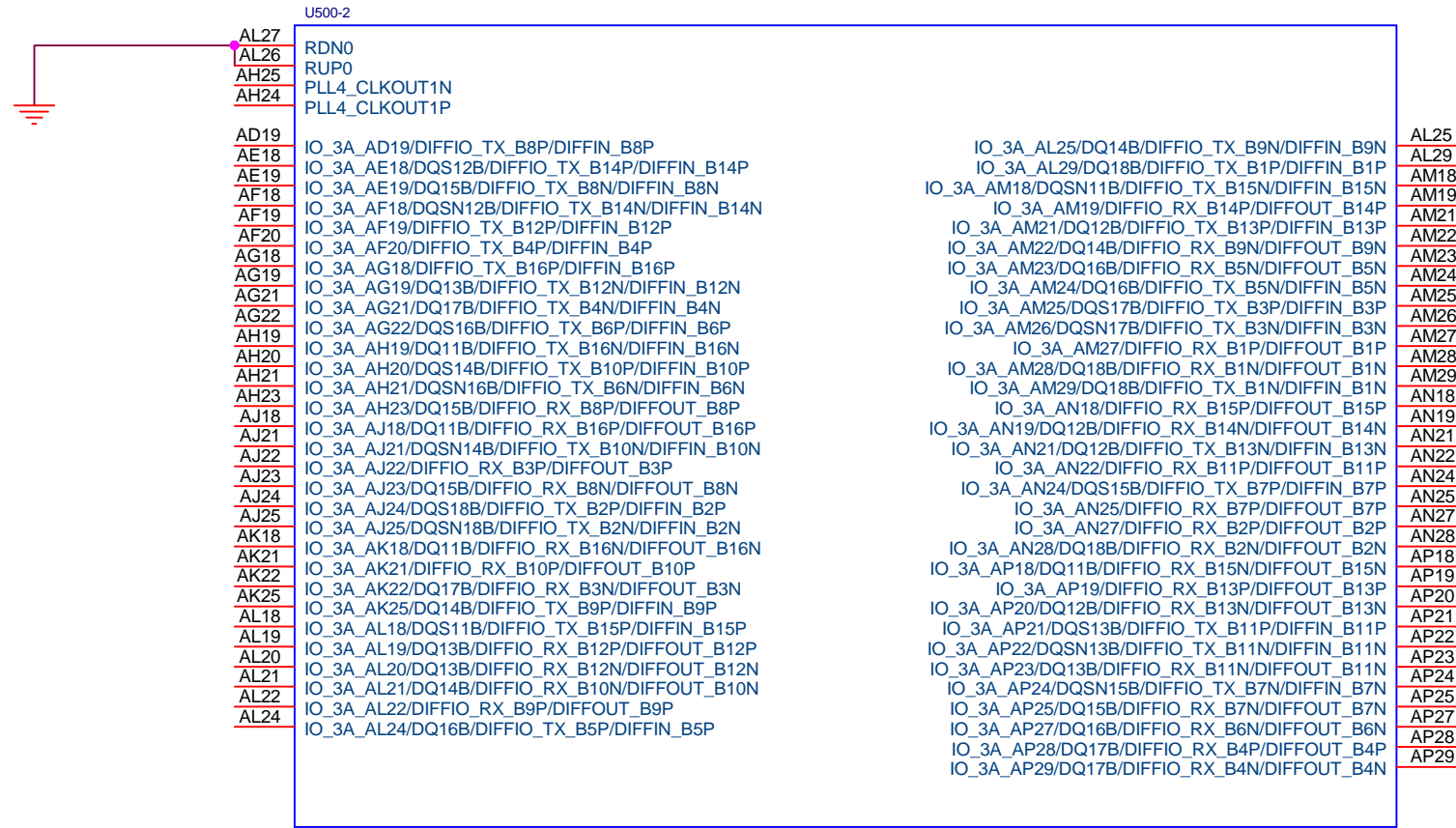
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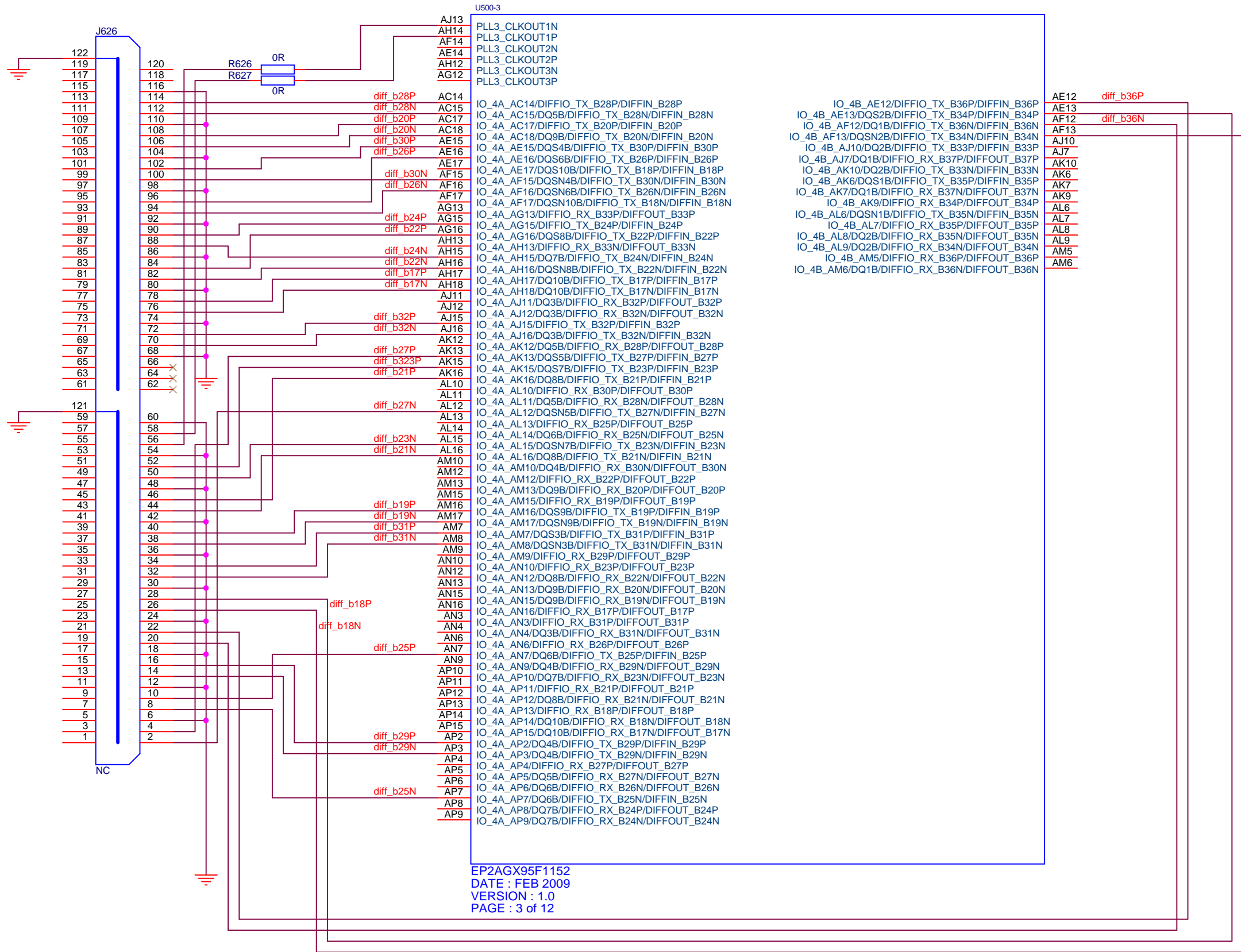


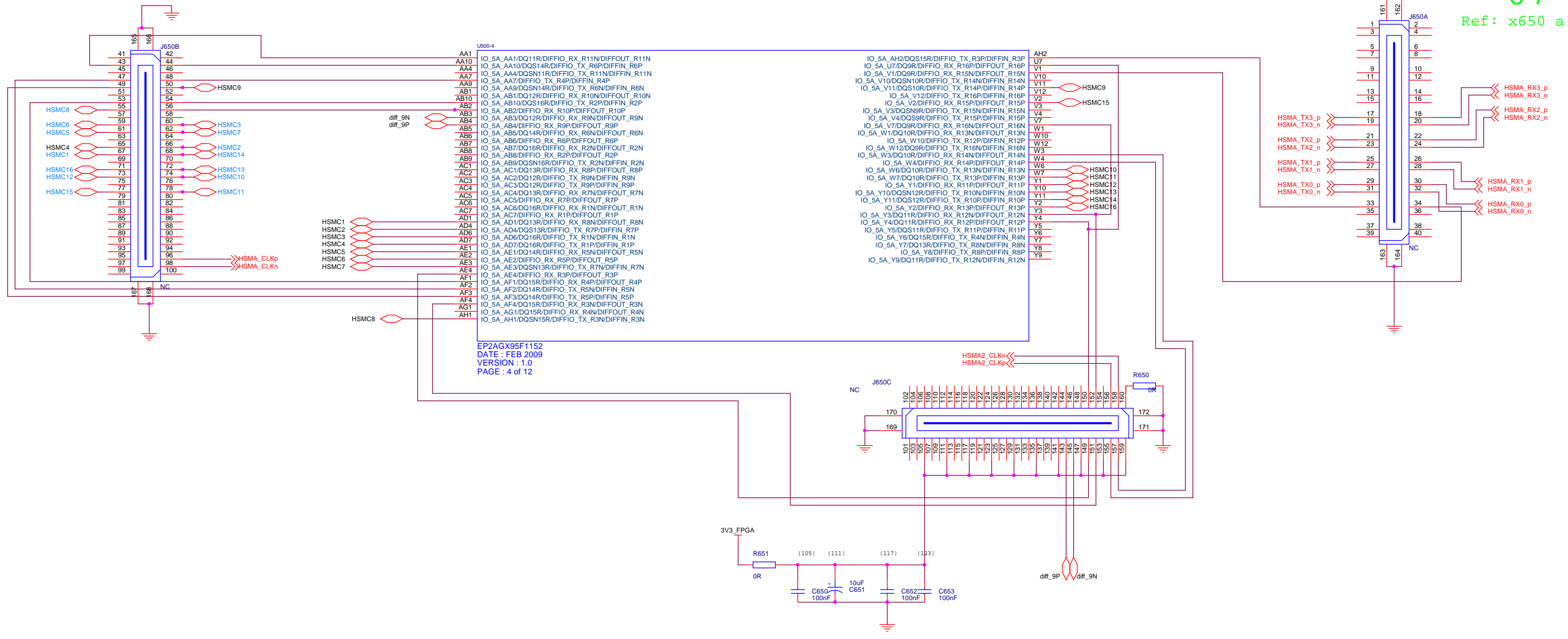
EP2AGX95F1152
DATE: FEB 2009
VERSION: 1.0
PAGE: 1 of 12

Ref: x500 a x599 04



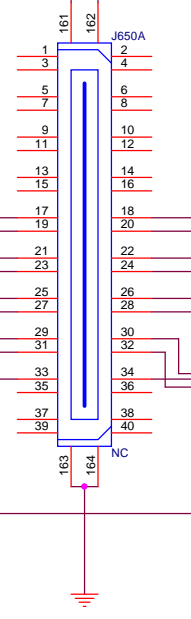
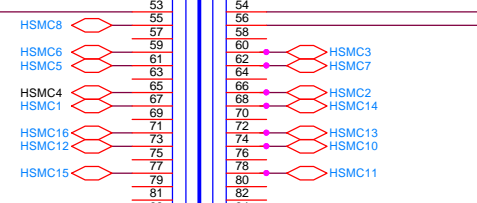
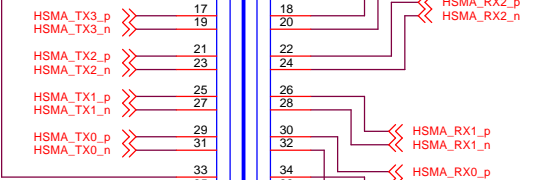
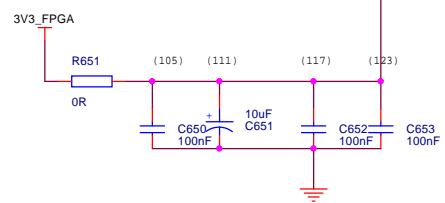
EP2AGX95F1152
 DATE : FEB 2009
 VERSION : 1.0
 PAGE : 2 of 12



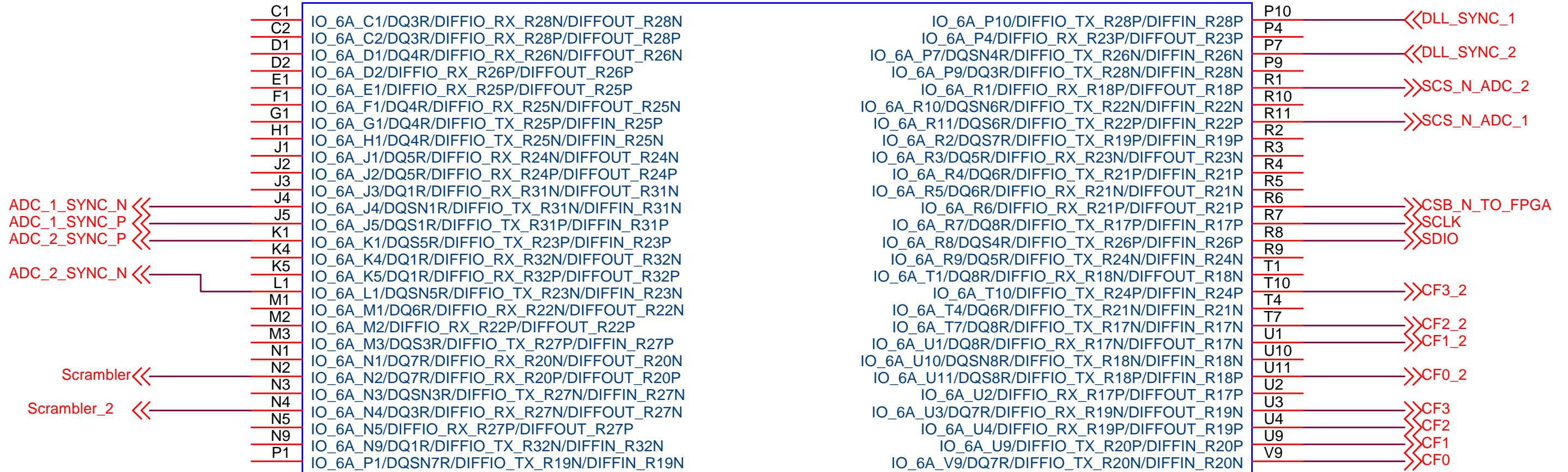


EP2AGX95F1152
DATE : FEB 2009
VERSION : 1.0
PAGE : 4 of 12

HSM2A_CLKn<<
HSM2A_CLKp<<



U500-5



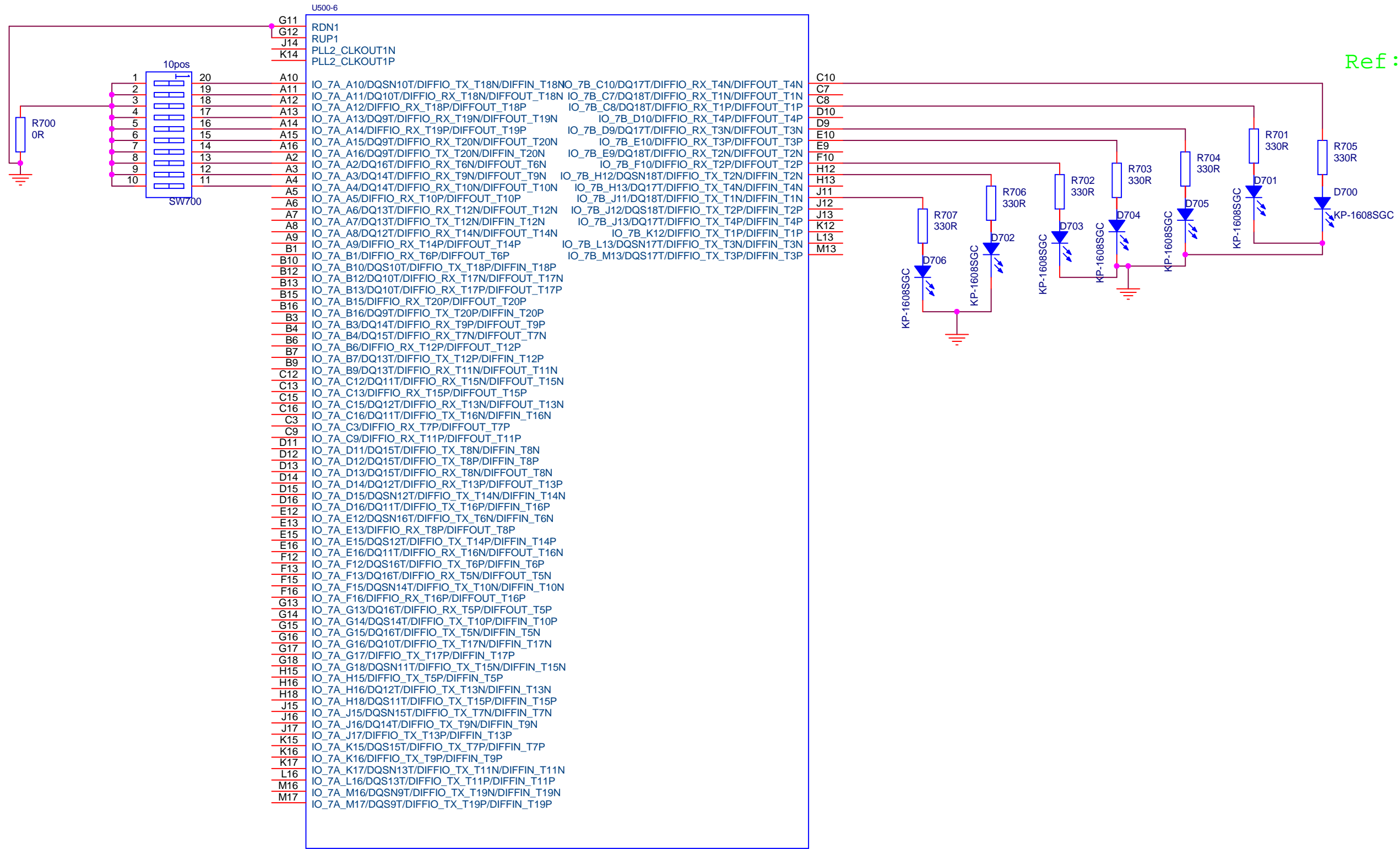
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ADC_1_SYNC_P
ADC_2_SYNC_P

ADC_2_SYNC_N

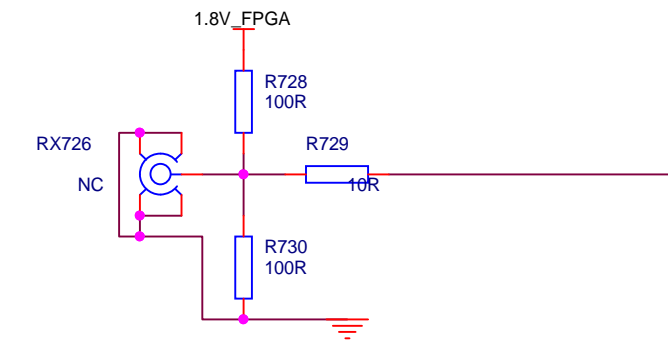
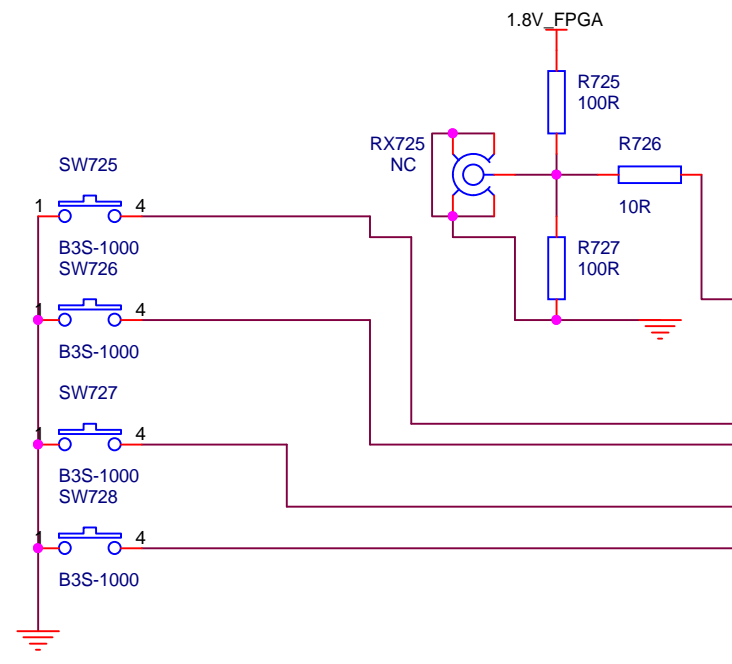
Scrambler

Scrambler_2

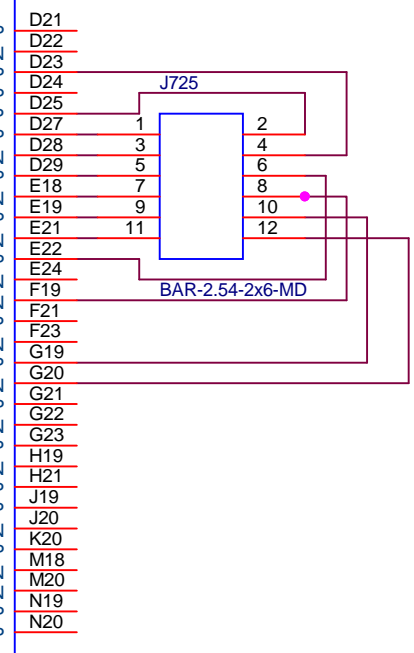
EP2AGX95F1152
DATE : FEB 2009
VERSION : 1.0
PAGE : 5 of 12



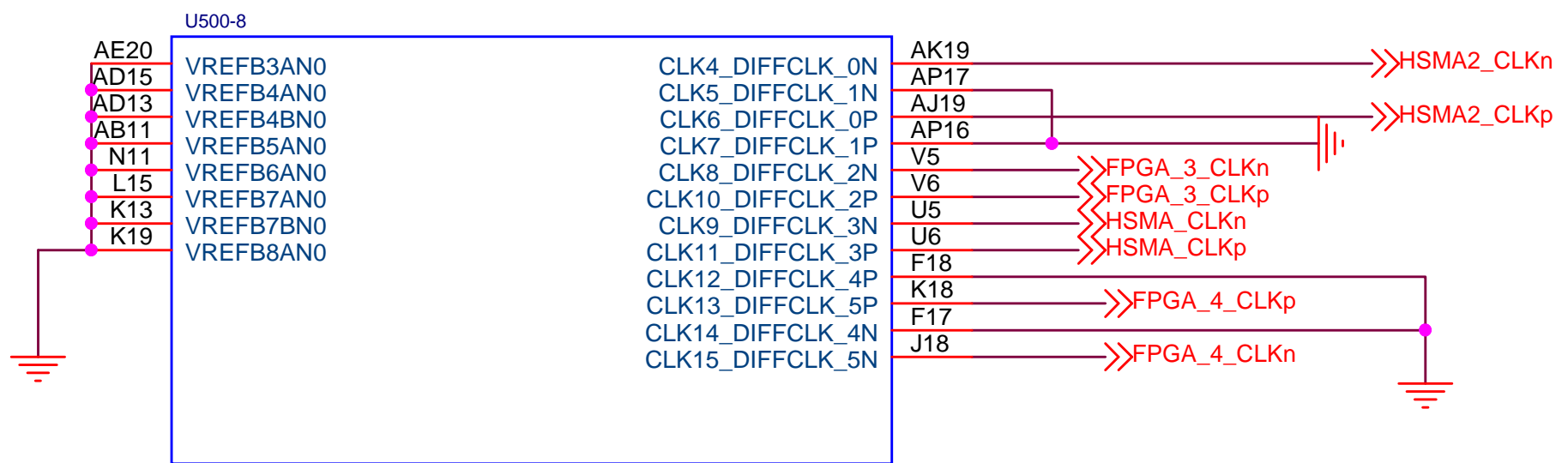
EP2AGX95F1152
 DATE : FEB 2009
 VERSION : 1.0
 PAGE : 6 of 12



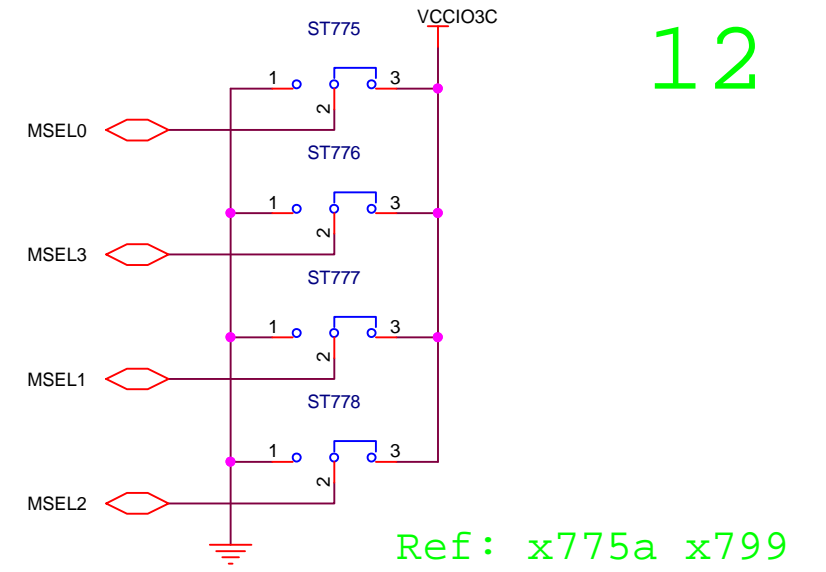
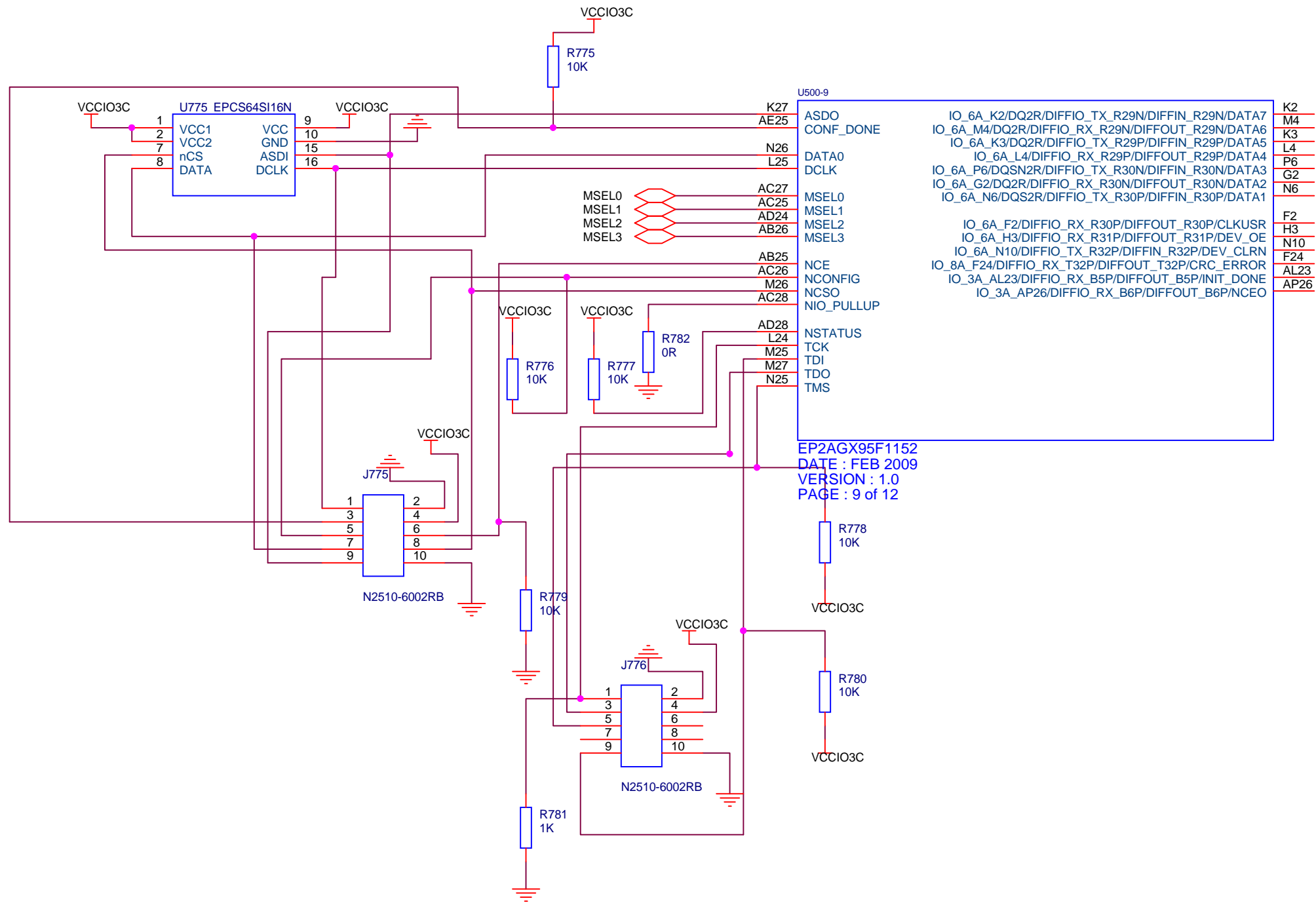
Pin	Signal
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E25	RUP2
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M21	PLL1_CLKOUT1P
F25	PLL1_CLKOUT2N
F26	PLL1_CLKOUT2P
J21	PLL1_CLKOUT3N
K21	PLL1_CLKOUT3P
A17	IO_8A_A17/DQSN8T/DIFFIO_TX_T22N/DIFFIN_T22N
A18	IO_8A_A18/DQSN8T/DIFFIO_TX_T22P/DIFFIN_T22P
A19	IO_8A_A19/DQ7T/DIFFIO_RX_T23N/DIFFOUT_T23N
A20	IO_8A_A20/DQ7T/DIFFIO_TX_T24N/DIFFIN_T24N
A21	IO_8A_A21/DQ7T/DIFFIO_TX_T24P/DIFFIN_T24P
A22	IO_8A_A22/DQSN6T/DIFFIO_TX_T26N/DIFFIN_T26N
A23	IO_8A_A23/DQSN6T/DIFFIO_TX_T26P/DIFFIN_T26P
A24	IO_8A_A24/DQ5T/DIFFIO_RX_T28N/DIFFOUT_T28N
A25	IO_8A_A25/DQ5T/DIFFIO_TX_T28N/DIFFIN_T28N
A26	IO_8A_A26/DQ4T/DIFFIO_RX_T29N/DIFFOUT_T29N
A27	IO_8A_A27/DQ4T/DIFFIO_RX_T29P/DIFFOUT_T29P
B18	IO_8A_B18/DQ8T/DIFFIO_RX_T22N/DIFFOUT_T22N
B19	IO_8A_B19/DIFFIO_RX_T23P/DIFFOUT_T23P
B21	IO_8A_B21/DQ6T/DIFFIO_RX_T25N/DIFFOUT_T25N
B22	IO_8A_B22/DQ5T/DIFFIO_RX_T27N/DIFFOUT_T27N
B24	IO_8A_B24/DIFFIO_RX_T28P/DIFFOUT_T28P
B25	IO_8A_B25/DQ5T/DIFFIO_TX_T28P/DIFFIN_T28P
B27	IO_8A_B27/DQSN4T/DIFFIO_TX_T30N/DIFFIN_T30N
C18	IO_8A_C18/DIFFIO_RX_T22P/DIFFOUT_T22P
C19	IO_8A_C19/DQ7T/DIFFIO_RX_T24N/DIFFOUT_T24N
C21	IO_8A_C21/DQ6T/DIFFIO_RX_T25P/DIFFOUT_T25P
C22	IO_8A_C22/DIFFIO_RX_T27P/DIFFOUT_T27P
C24	IO_8A_C24/DQ3T/DIFFIO_RX_T31N/DIFFOUT_T31N
C25	IO_8A_C25/DQ3T/DIFFIO_TX_T32N/DIFFIN_T32N
C26	IO_8A_C26/DQSN2T/DIFFIO_TX_T34N/DIFFIN_T34N
C27	IO_8A_C27/DQ2T/DIFFIO_RX_T34N/DIFFOUT_T34N
C28	IO_8A_C28/DQSN4T/DIFFIO_TX_T30P/DIFFIN_T30P
C29	IO_8A_C29/DQ1T/DIFFIO_TX_T36N/DIFFIN_T36N
C30	IO_8A_C30/DQ1T/DIFFIO_TX_T36P/DIFFIN_T36P
D17	IO_8A_D17/DQ8T/DIFFIO_RX_T21N/DIFFOUT_T21N
D18	IO_8A_D18/DQ8T/DIFFIO_RX_T21P/DIFFOUT_T21P
D19	IO_8A_D19/DIFFIO_RX_T24P/DIFFOUT_T24P
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F23	IO_8A_F23/DQSN3T/DIFFIO_TX_T31N/DIFFIN_T31N
G19	IO_8A_G19/DQSN5T/DIFFIO_TX_T27N/DIFFIN_T27N
G20	IO_8A_G20/DQ4T/DIFFIO_TX_T29N/DIFFIN_T29N
G21	IO_8A_G21/DIFFIO_TX_T29P/DIFFIN_T29P
G22	IO_8A_G22/DQSN1T/DIFFIO_TX_T35N/DIFFIN_T35N
G23	IO_8A_G23/DQSN3T/DIFFIO_TX_T31P/DIFFIN_T31P
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M20	IO_8A_M20/DQ2T/DIFFIO_TX_T33N/DIFFIN_T33N
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EP2AGX95F1152
 DATE : FEB 2009
 VERSION : 1.0
 PAGE : 7 of 12

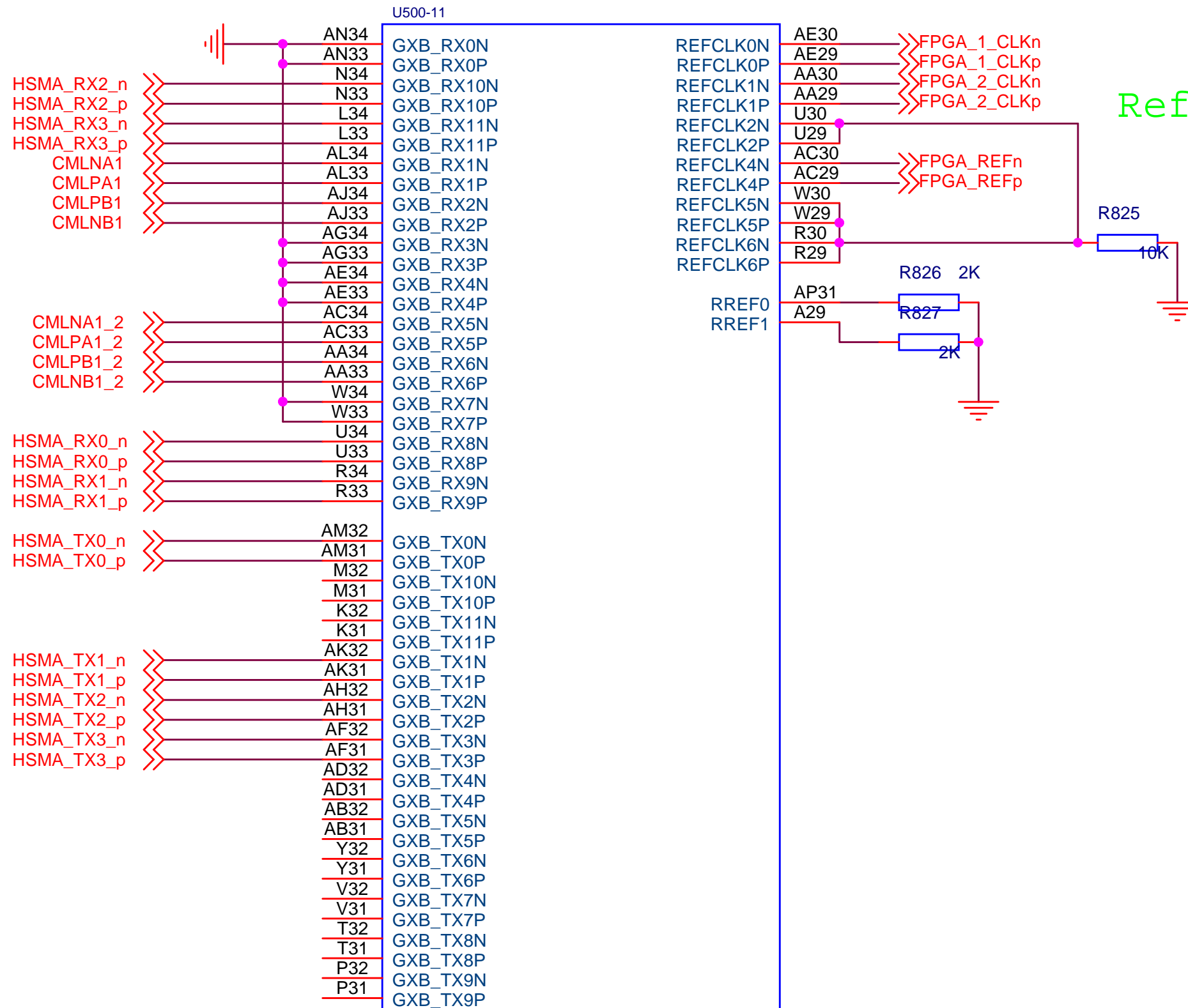


EP2AGX95F1152
DATE : FEB 2009
VERSION : 1.0
PAGE : 8 of 12



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AC12	NC_AC12	NC_F30	F30
AC21	NC_AC21	NC_F3	F3
AC22	NC_AC22	NC_F29	F29
AC8	NC_AC8	NC_F28	F28
AC9	NC_AC9	NC_F27	F27
AD10	NC_AD10	NC_E7	E7
AD11	NC_AD11	NC_E6	E6
AD12	NC_AD12	NC_E4	E4
AD21	NC_AD21	NC_E34	E34
AD22	NC_AD22	NC_E33	E33
AD9	NC_AD9	NC_E30	E30
AE11	NC_AE11	NC_E3	E3
AE21	NC_AE21	NC_E28	E28
AE22	NC_AE22	NC_E27	E27
AE23	NC_AE23	NC_E27	E27
AE24	NC_AE24	NC_F4	F4
AE26	NC_AE26	NC_F5	F5
AE27	NC_AE27	NC_F6	F6
AE28	NC_AE28	NC_F7	F7
AE5	NC_AE5	NC_F8	F8
AE6	NC_AE6	NC_F9	F9
AE7	NC_AE7	NC_G10	G10
AE8	NC_AE8	NC_G24	G24
AF11	NC_AF11	NC_G25	G25
AF21	NC_AF21	NC_G26	G26
AF22	NC_AF22	NC_G27	G27
AF23	NC_AF23	NC_G28	G28
AF24	NC_AF24	NC_G29	G29
AF25	NC_AF25	NC_G3	G3
AF27	NC_AF27	NC_G30	G30
AF28	NC_AF28	NC_G33	G33
AF5	NC_AF5	NC_G34	G34
AF6	NC_AF6	NC_G4	G4
AF7	NC_AF7	NC_G5	G5
AF8	NC_AF8	NC_G6	G6
AG10	NC_AG10	NC_G7	G7
AG24	NC_AG24	NC_G8	G8
AG27	NC_AG27	NC_G9	G9
AG30	NC_AG30	NC_H10	H10
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AJ1	NC_AJ1	NC_J24	J24
AJ2	NC_AJ2	NC_J25	J25
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AJ27	NC_AJ27	NC_J27	J27
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AK27	NC_AK27	NC_K23	K23
AK28	NC_AK28	NC_K23	K23
AK3	NC_AK3	NC_K24	K24
AK30	NC_AK30	NC_K25	K25
AK4	NC_AK4	NC_K25	K25
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AL2	NC_AL2	NC_K6	K6
AL28	NC_AL28	NC_K7	K7
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AL4	NC_AL4	NC_L10	L10
AL5	NC_AL5	NC_L11	L11
AM1	NC_AM1	NC_L11	L11
AM2	NC_AM2	NC_L22	L22
AM3	NC_AM3	NC_L22	L22
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AN1	NC_AN1	NC_L30	L30
B31	NC_B31	NC_L6	L6
B32	NC_B32	NC_L6	L6
C33	NC_C33	NC_L7	L7
C34	NC_C34	NC_L7	L7
C4	NC_C4	NC_L9	L9
C5	NC_C5	NC_L9	L9
C6	NC_C6	NC_M10	M10
D3	NC_D3	NC_M11	M11
D30	NC_D30	NC_M12	M12
D31	NC_D31	NC_M12	M12
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D5	NC_D5	NC_M23	M23
D6	NC_D6	NC_M5	M5
D7	NC_D7	NC_M6	M6
		NC_M7	M7
		NC_M8	M8
		NC_M9	M9
		NC_N29	N29
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		NC_N30	N30
		NC_N7	N7
		NC_N8	N8
		NC_V17	V17
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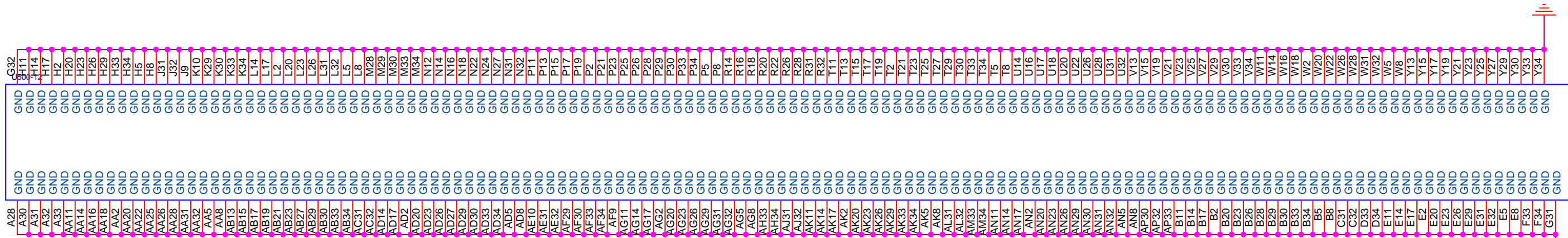
EP2AGX95F1152
DATE : FEB 2009
VERSION : 1.0
PAGE : 10 of 12



14

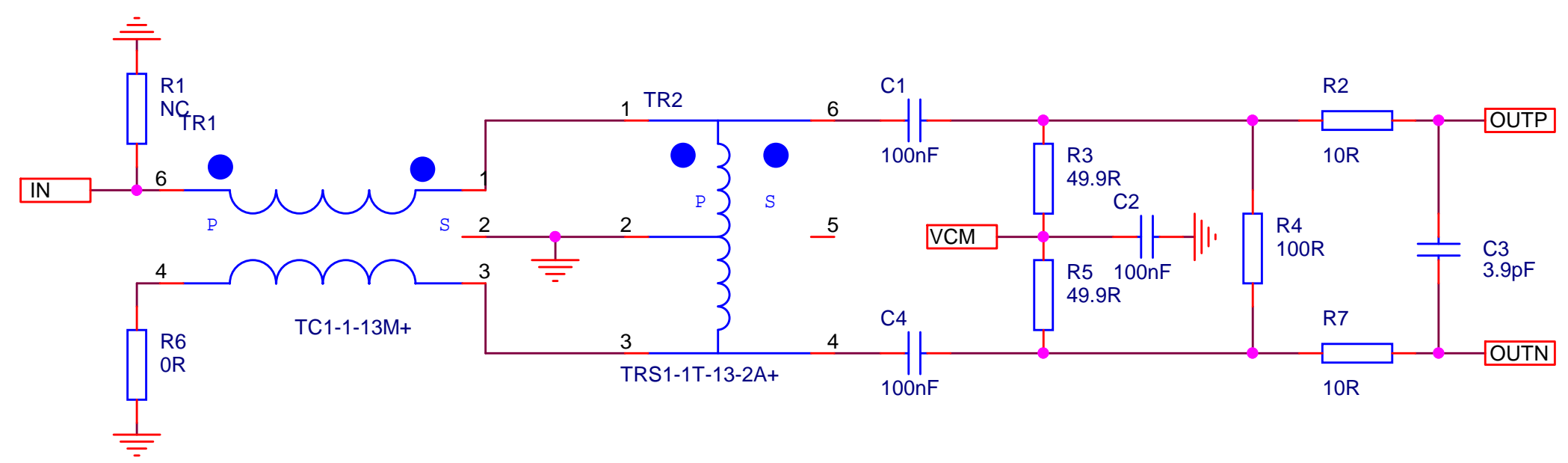
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EP2AGX95F1152
 DATE : FEB 2009
 VERSION : 1.0
 PAGE : 11 of 12

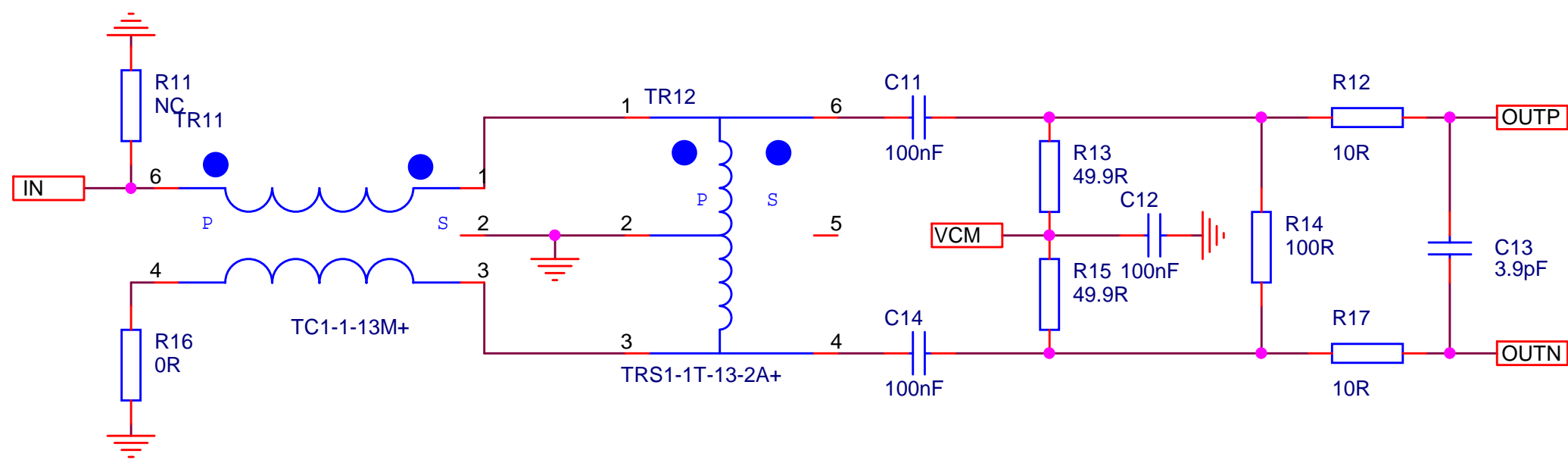


EP2AGX95F1152
DATE : FEB 2009
VERSION : 1.0
PAGE : 12 of 12

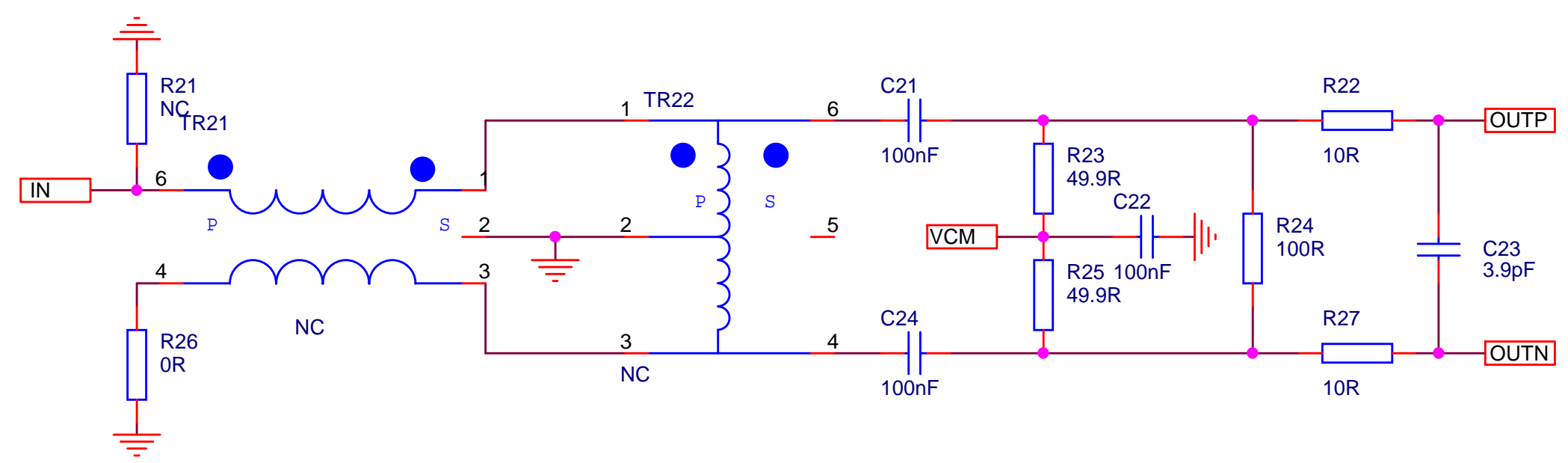
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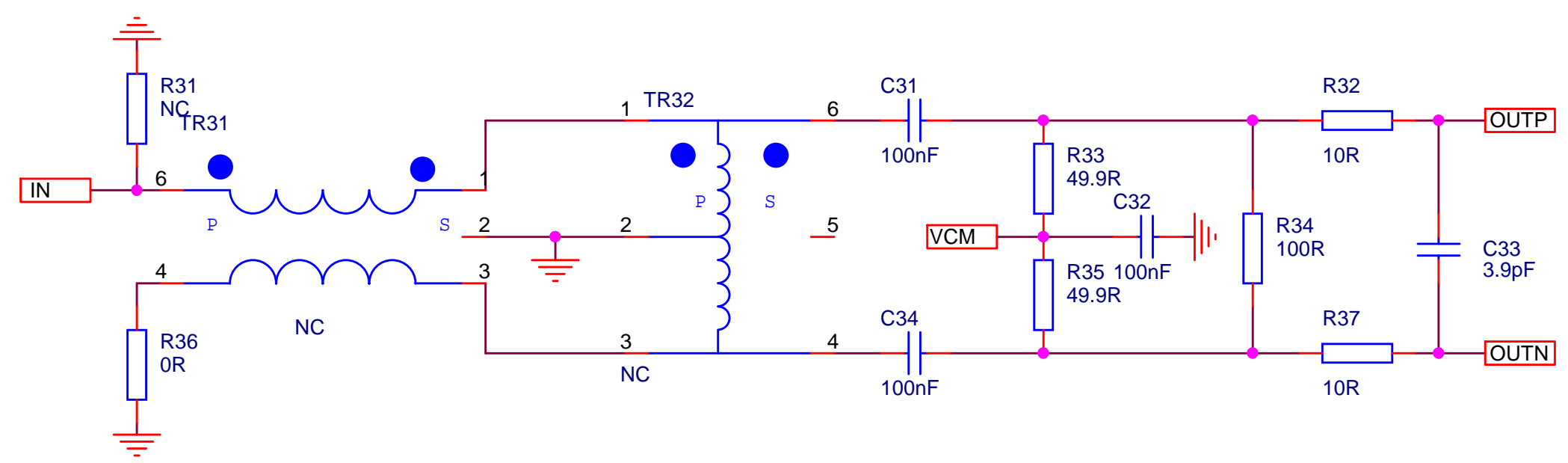
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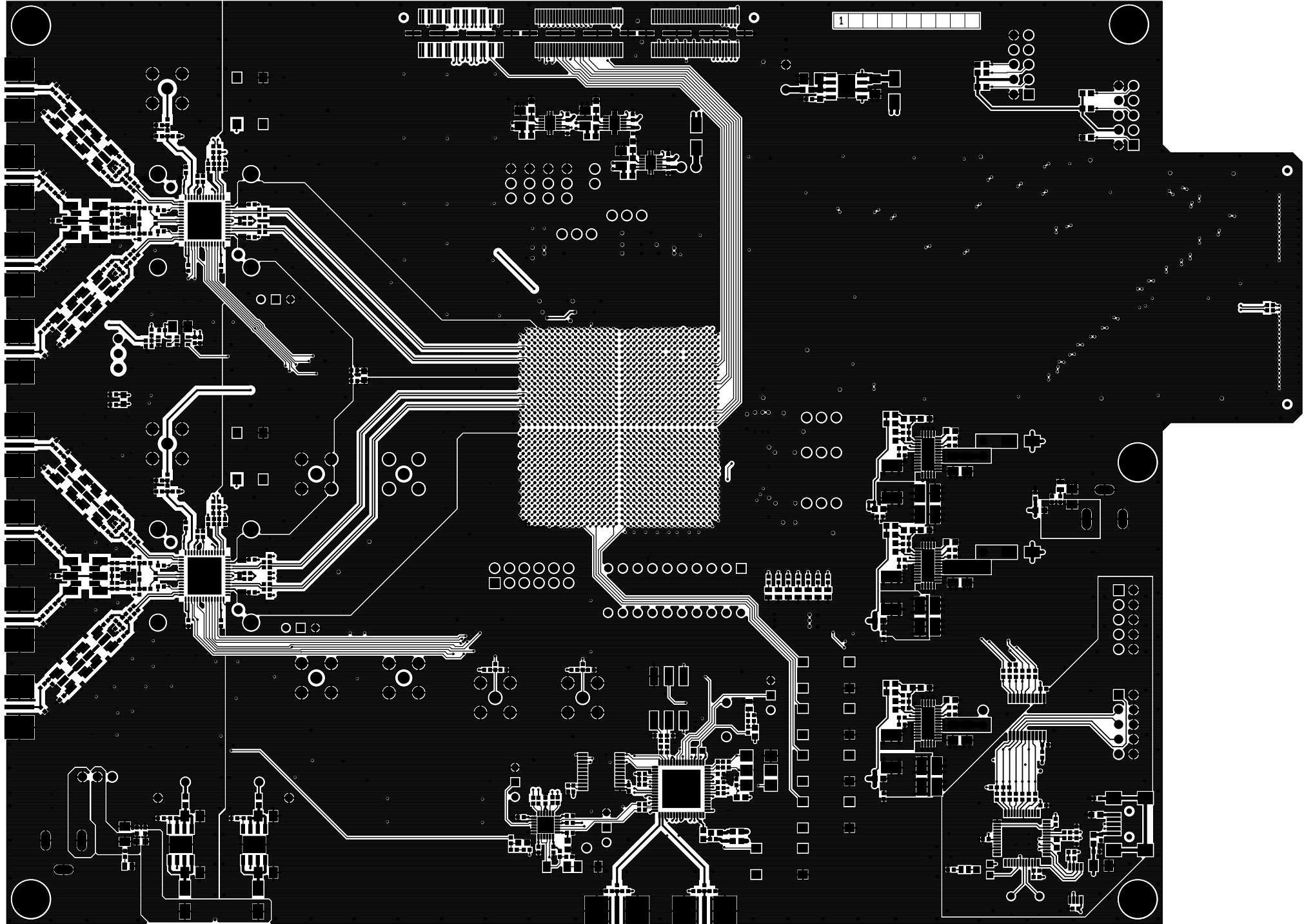
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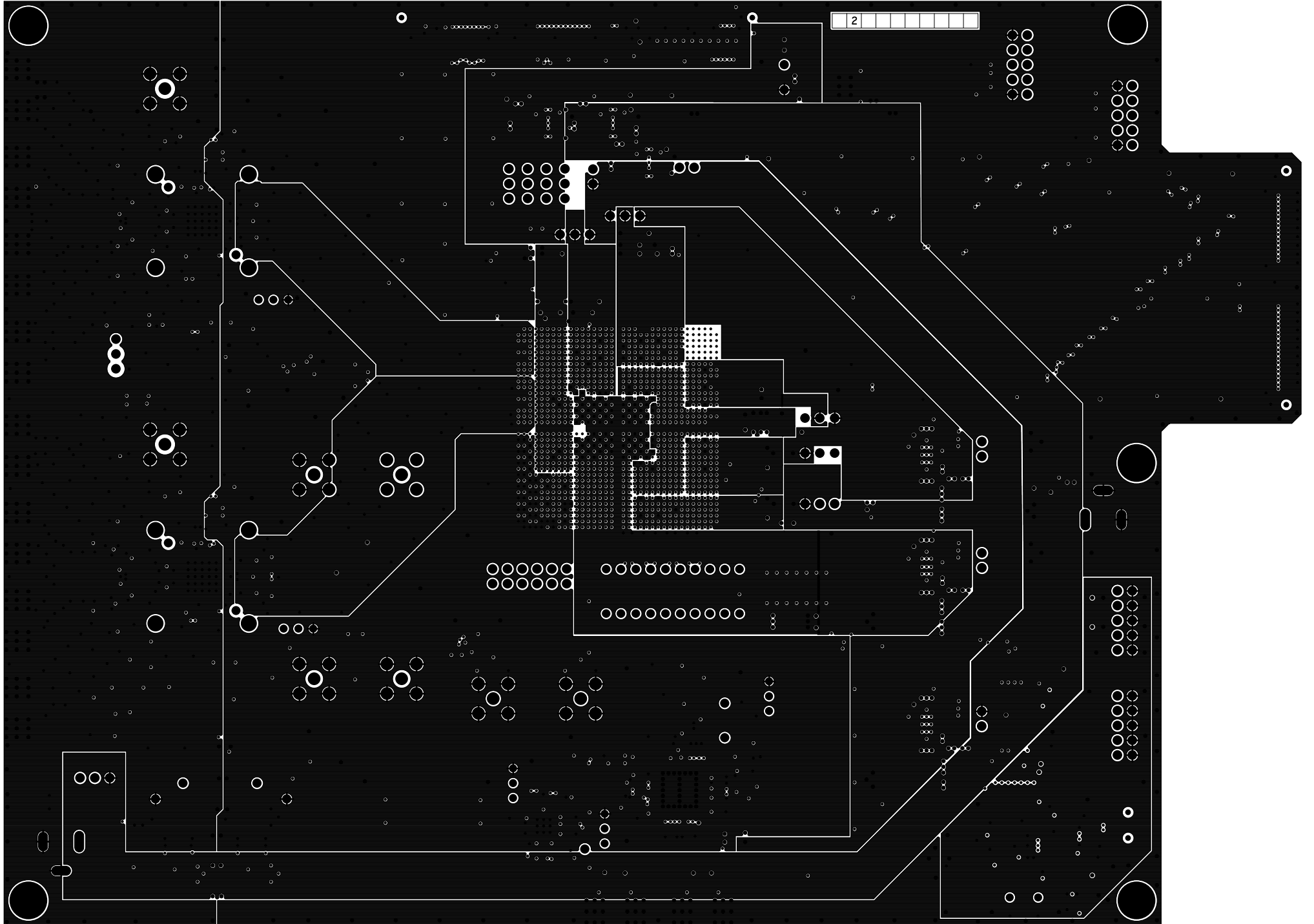


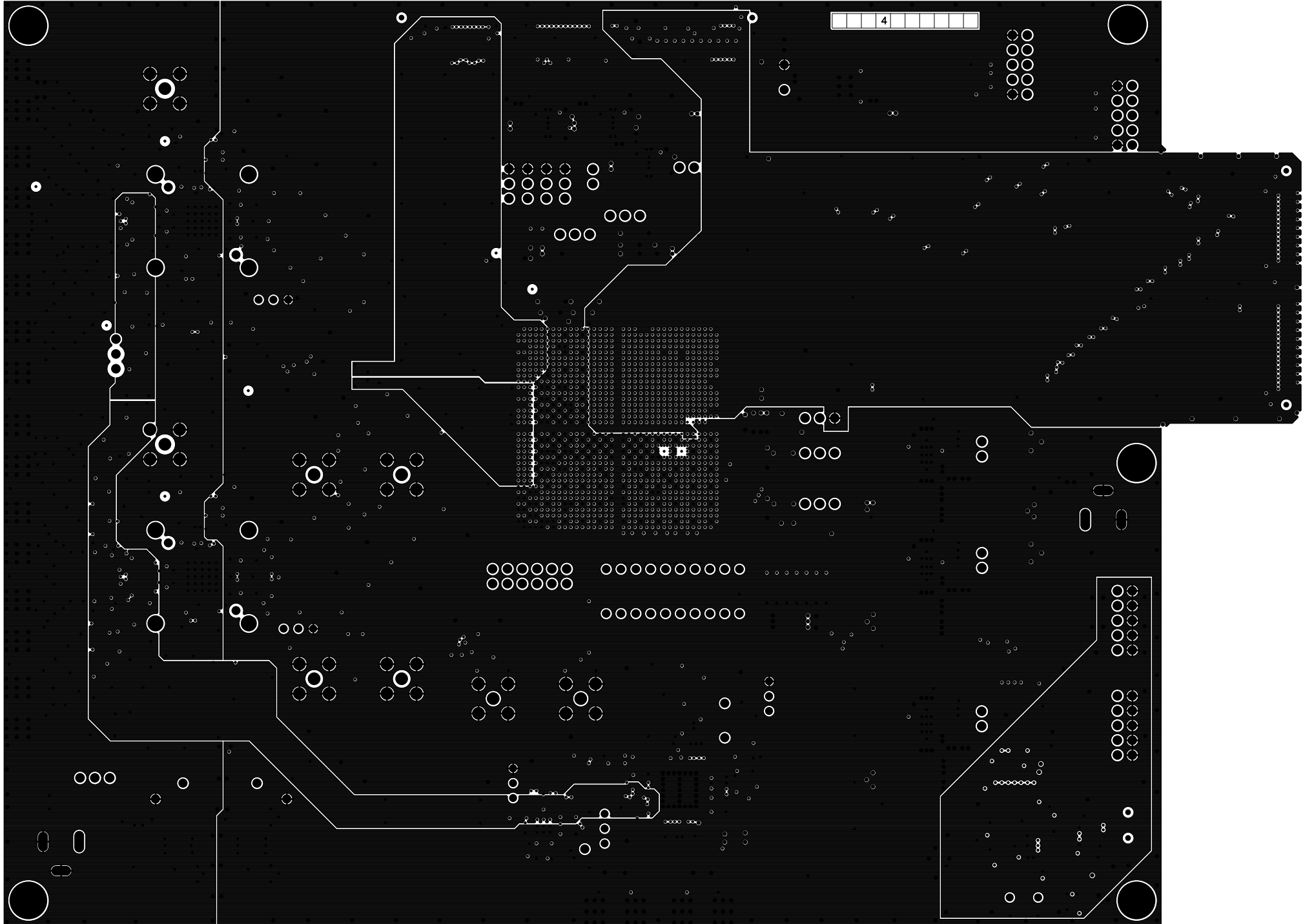
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19 - Ref x031 a x040

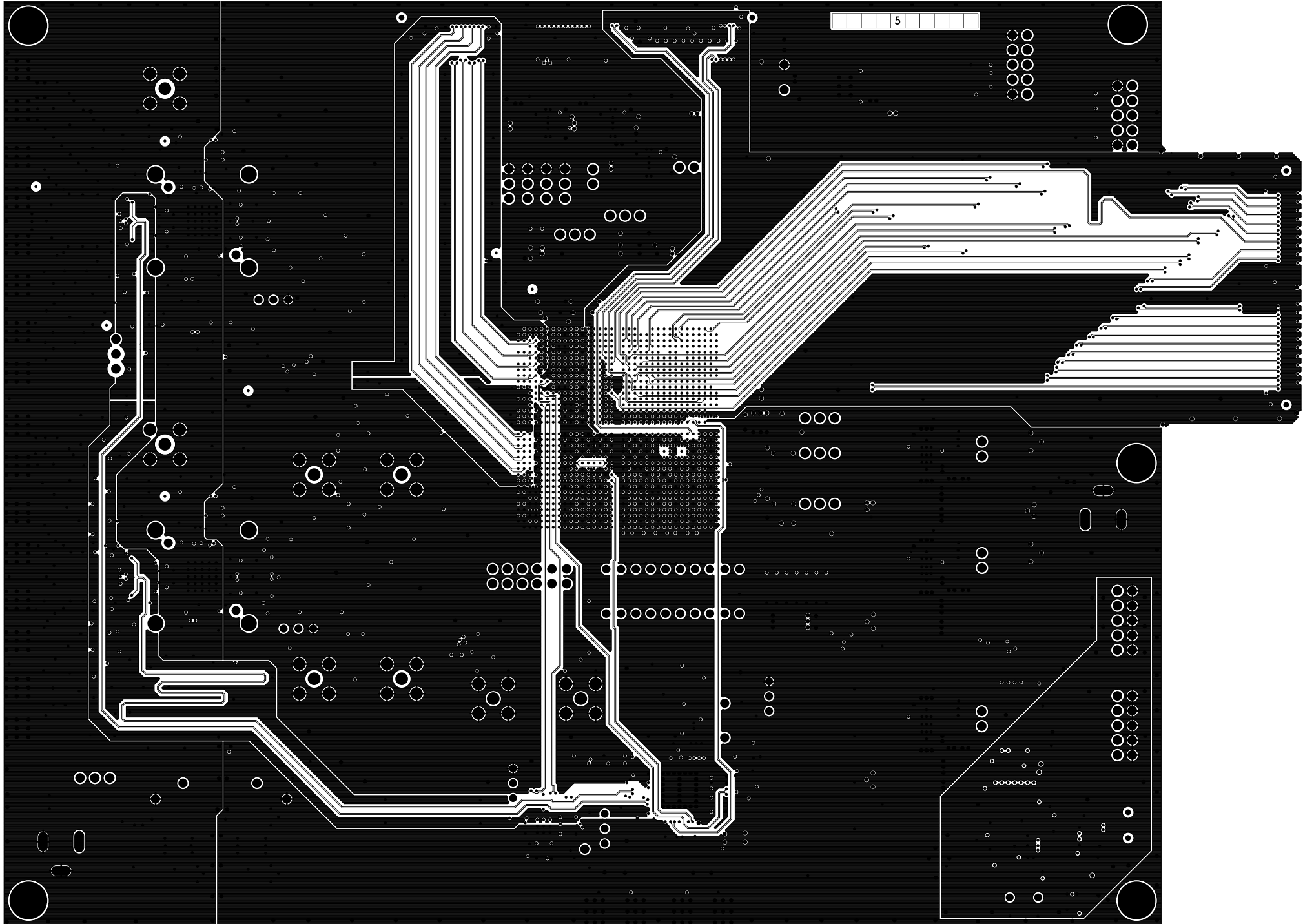


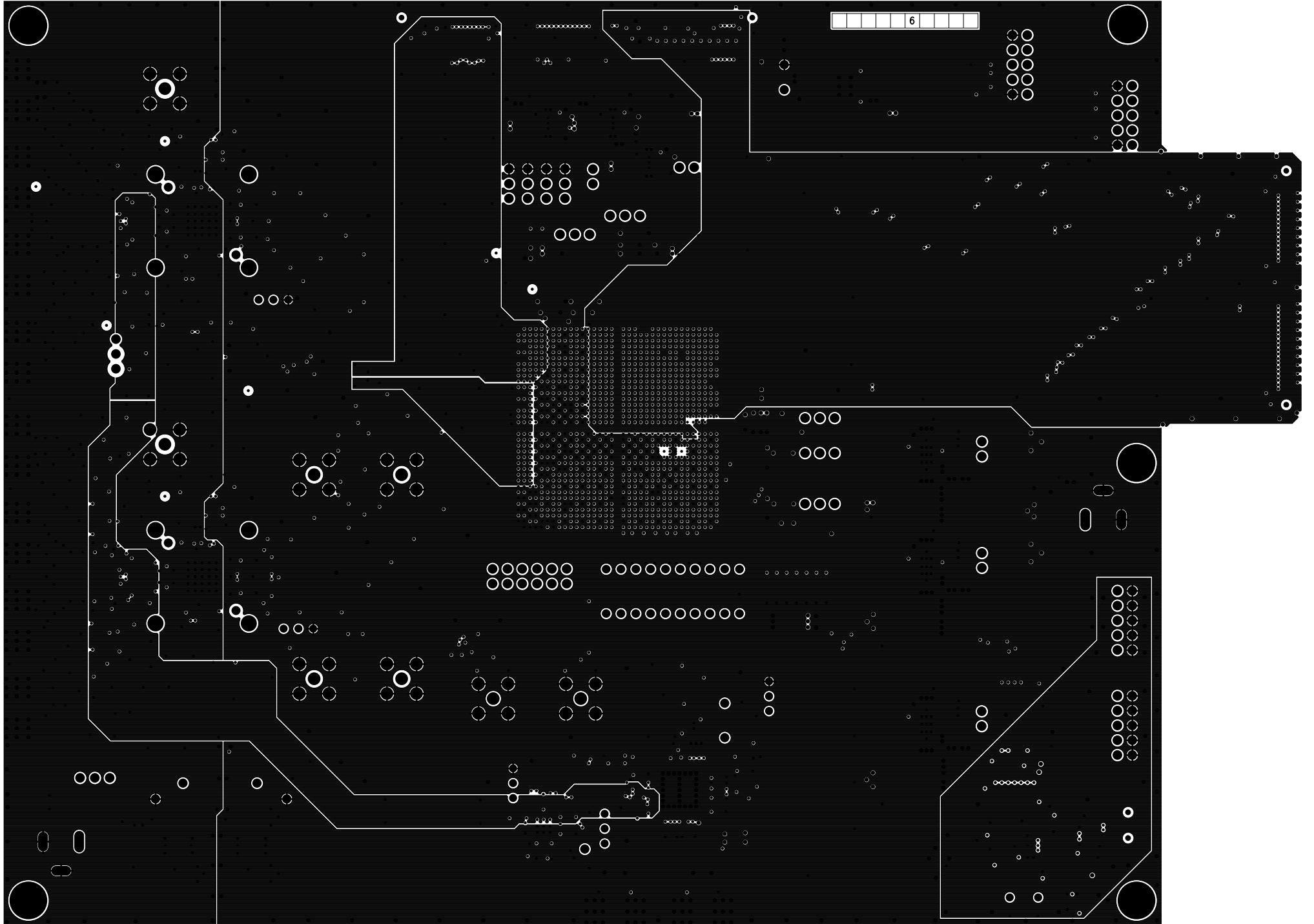
86	25ERESA3D4021	1	R438	r0603	4K02	Res 0603 1% 0.1W 4.02kOhms		
78	25ERESA3D4991	3	R413 R427 R439	r0603	4k99	Res 0603 1% 0.1W 4.99kOhms		
82	25ERESA3D5491	1	R418	r0603	5k49	Res 0603 1% 0.1W 5.49kOhms		
81	25ERESA3D5900	3	R417 R431 R443	r0603	590R	Res 0603 1% 0.1W 590ohms		
50	25ETRAF100004NX	1	Q100	sot23	B5H205	Tra MOSP sot23 12V 0.75A	NXP	B5H205
46	25ETRF800_I0603_NC	1	L100	I0603	NC	***NOT CONNECTED*** filtre ferrite 0603		BULLEO2
47	25ETRF8000004MA	25	L101 L102 L103 L104 L105 L106 L107 L108 L109 L110 L111 L112 L113 L300 L301 L302 L303 L304 L306 L403 L406 L500 L501 L502 L503	I0603	BLM185G121TN1	filtre ferrite 0603 120R 25% 3A	Murata	BLM185G121TN1
48	25ETRF8000007VY	3	L404 L407 L408	I_hlm2525	IHLM2525CZERR82M01	filtre ferrite 0.82uH 13A Vishay: IHLM2525CZERR82M01	Vishay	IHLM2525CZERR82M01
99	25ETRFK000002MT_NC	2	TR100 TR102	transfo_rf_adt1_1wt_local	NC	transfo RF 0.5W 30mA	Mini-Circuit	ADT1-1WT
95	25ETRFK000007MT	2	TR1 TR11	transfo_at224_at577	TC1-1-13M+	transfo RF 0.25W 30mA MiniCircuit:TC1-1-13M+	Mini-Circuit	TC1-1-13M+
100	25ETRFK000007MT	1	TR101	transfo_at224_1	TC1-1-13M+	transfo RF 0.25W 30mA	Mini-Circuits	TC1-1-13M+
97	25ETRFK000007MT_NC	2	TR21 TR31	transfo_at224_at577	NC	***NOT CONNECTED*** transfo RF 0.25W 30mA MiniCircuit:TC1-1-13M+	Mini-Circuit	TC1-1-13M+
101	25ETRFK000007MT_NC	1	TR103	transfo_at224_1	NC	transfo RF 0.25W 30mA	Mini-Circuits	TC1-1-13M+
96	25ETRFK000008MT	2	TR2 TR12	transfo_at577_at224	TRS1-1T-13-2A+	transfo RF 0.25W 16mA MiniCircuit:TRS1-1T-13-2A+	Mini-Circuit	TRS1-1T-13-2A+
98	25ETRFK000008MT_NC	2	TR22 TR32	transfo_at577_at224	NC	***NOT CONNECTED*** transfo RF 0.25W 16mA MiniCircuit:TRS1-1T-13-2A+	Mini-Circuit	TRS1-1T-13-2A+
115	25EXTAACD0001MX	1	Y100	xtal_hc49s	6MHz	Quartz HC49/S 6MHz	Manudax	M95060A
116	25EXTABZS0012EN	1	Y300	xtal_nx7050_6p	XTAL_125MHz	Oscill 70x50 125MHz Epson : EG-2102CA-125M-LHPA	Epson Toyocom	EG-2102CA-125M-LHPA
117	25EXTABZZ0001EN_NC	1	Y301	xtal_tco_21xx	NC	***NOT CONNECTED*** Oscill serie tco2131 3.3v	Epson Toyocom	
104	pnsx_ADC1x43D_8x8	2	U104 U105	potence_08_hlqfn56r	ADC1x43D_8x8	IC dual 14bits ADC Boitier 8x8 sur potence type V2		ADC1443
12	pnsx_c0402_NC	8	C174 C205 C224 C225 C226 C227 C320 C323	C0402	NC	Capacite 0402 ***NOT CONNECTED***		
49	pnsx_entr_hex_tar_laiton_M3x15_vis_M3x10	5	MH400 MH401 MH402 MH403 MH404	entr_hex_M3x1500_vis_M3	Entretoise_hex_tar_laiton_M3x15	Entretoise hexagonale taraudée (femelle-femelle) laiton M3x15mm	Ex:Acme	Ex:301 3150 400 50
51	pnsx_r0402_NC	41	R1 R11 R21 R31 R107 R109 R110 R112 R114 R115 R116 R118 R119 R122 R127 R128 R132 R136 R137 R146 R147 R149 R150 R153 R155 R160 R161 R162 R163 R175	R0402	NC	Res 0402 ***NOT CONNECTED***		
68	pnsx_r0603_nc	8	R182 R183 R185 R187 R188 R203 R204 R210 R211 R212 R213	r0603	NC	Res 0603 ***NOT CONNECTED***		
3	pnsx_rondelle_eventail_acier_M3	5	R300 R307 R318 R320 R322 R326 R332 R336		Rondelle_eventail_acier_M3	Rondelle éventail acier zingué M3	Ex:Imp	Ex:M52 013 0030
1	pnsx_vis_CHC_M2x6_inox	8			Vis CHC M2x6	Vis Tête Cylindrique Six Pans Creux M2x6 Inox		
4	pnsx_vis_TC_M3x10_inox	5			Vis TC M3x10	Vis Tête Cylindrique Fendue M3x10 Inox		

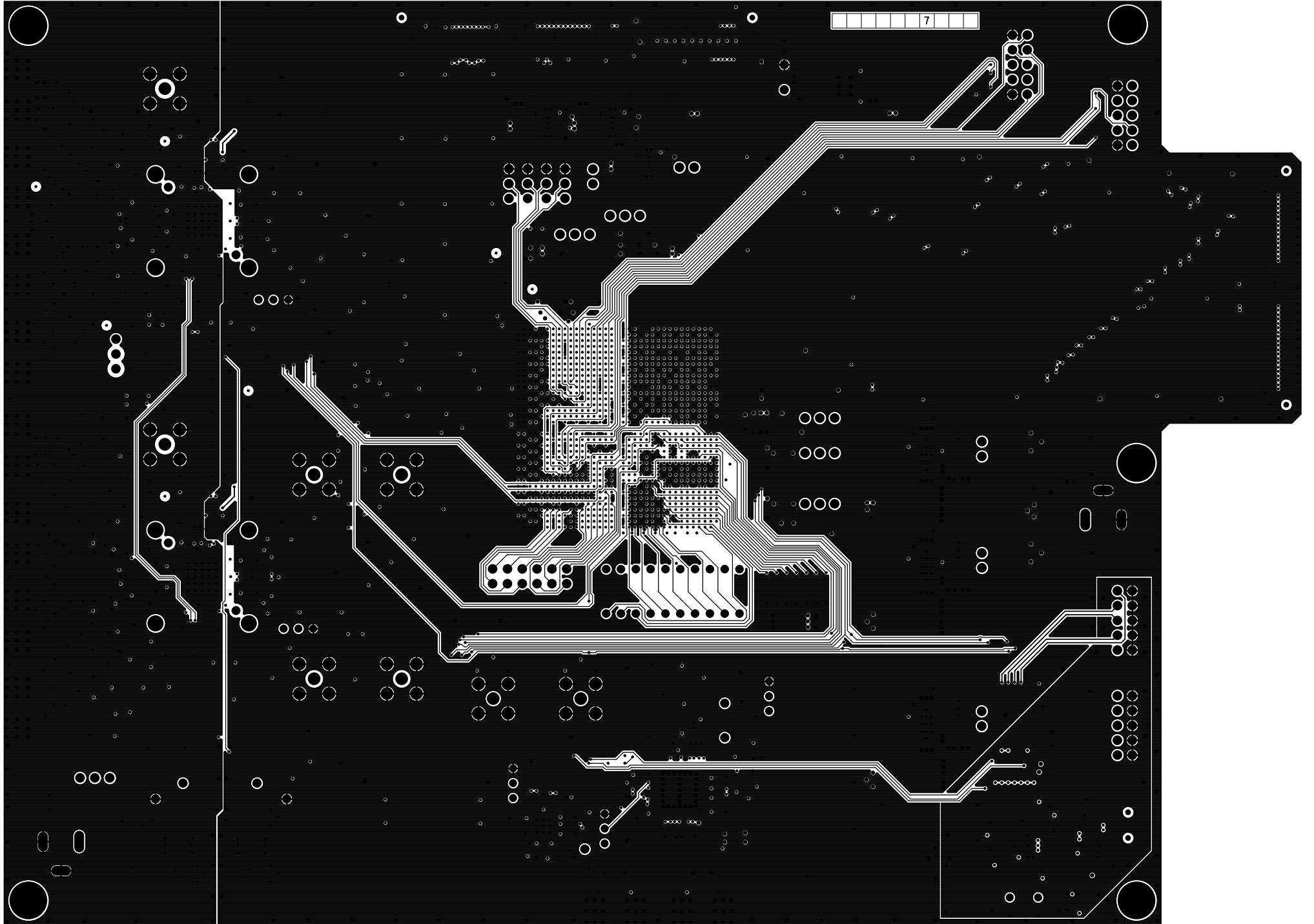


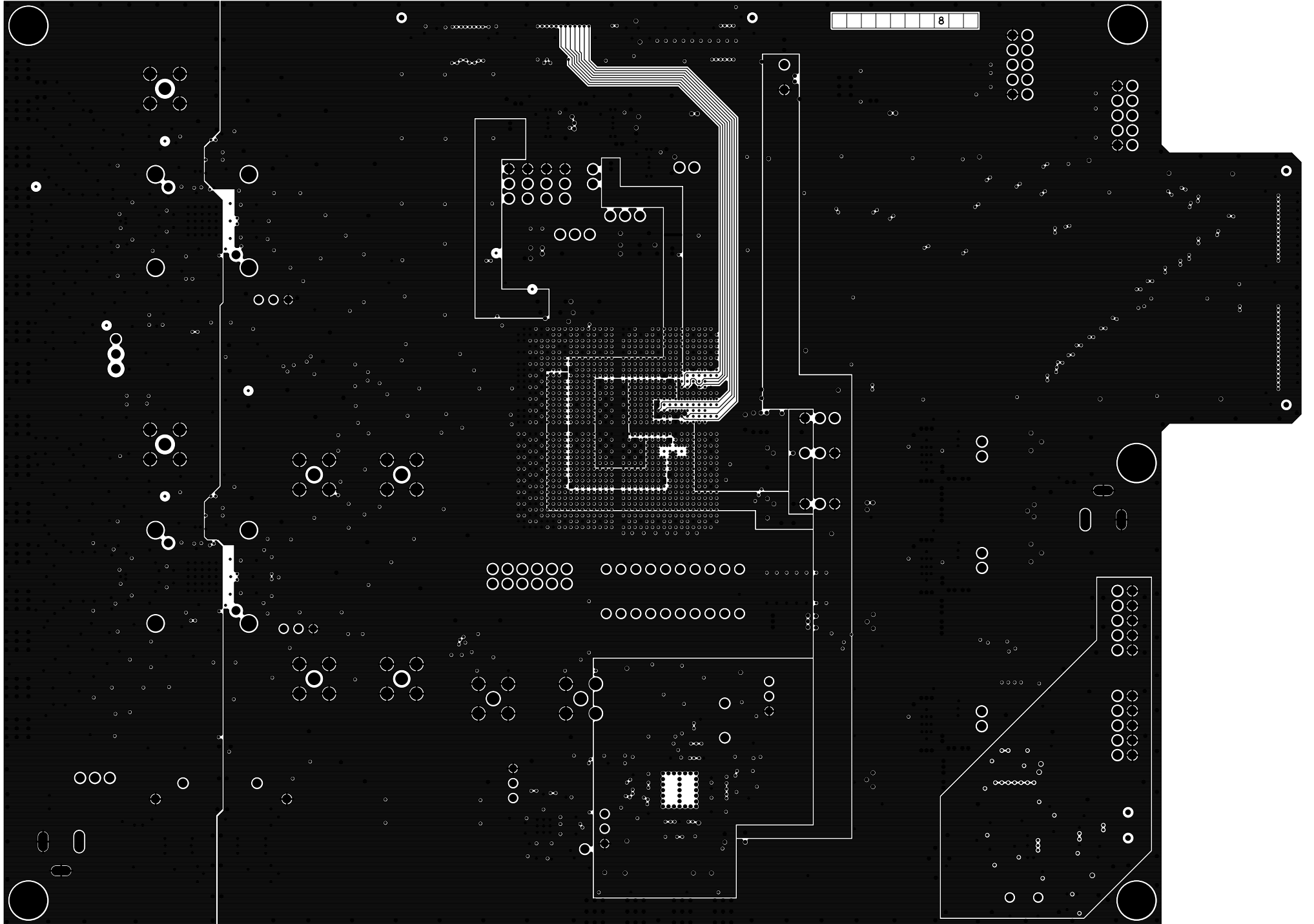


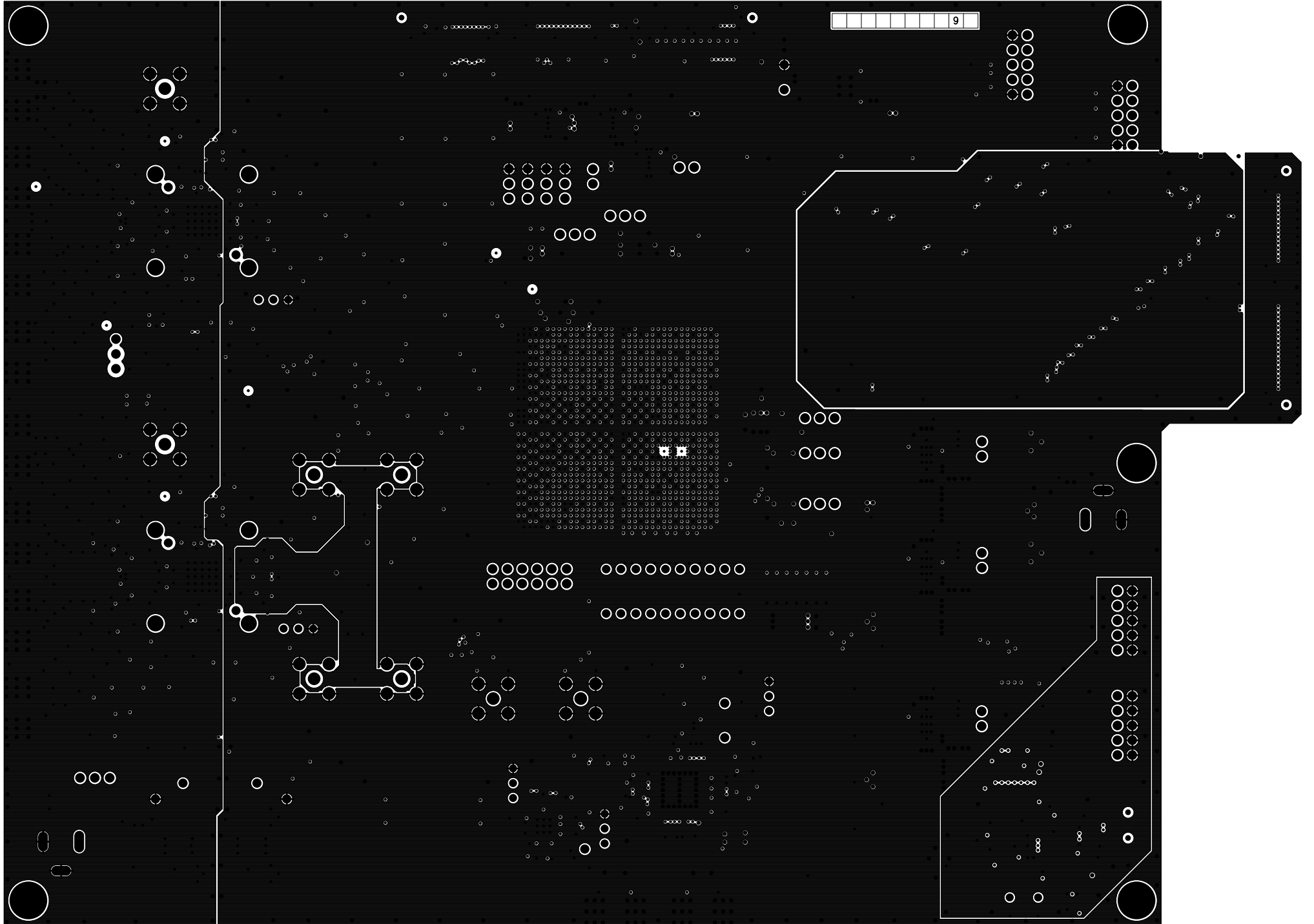


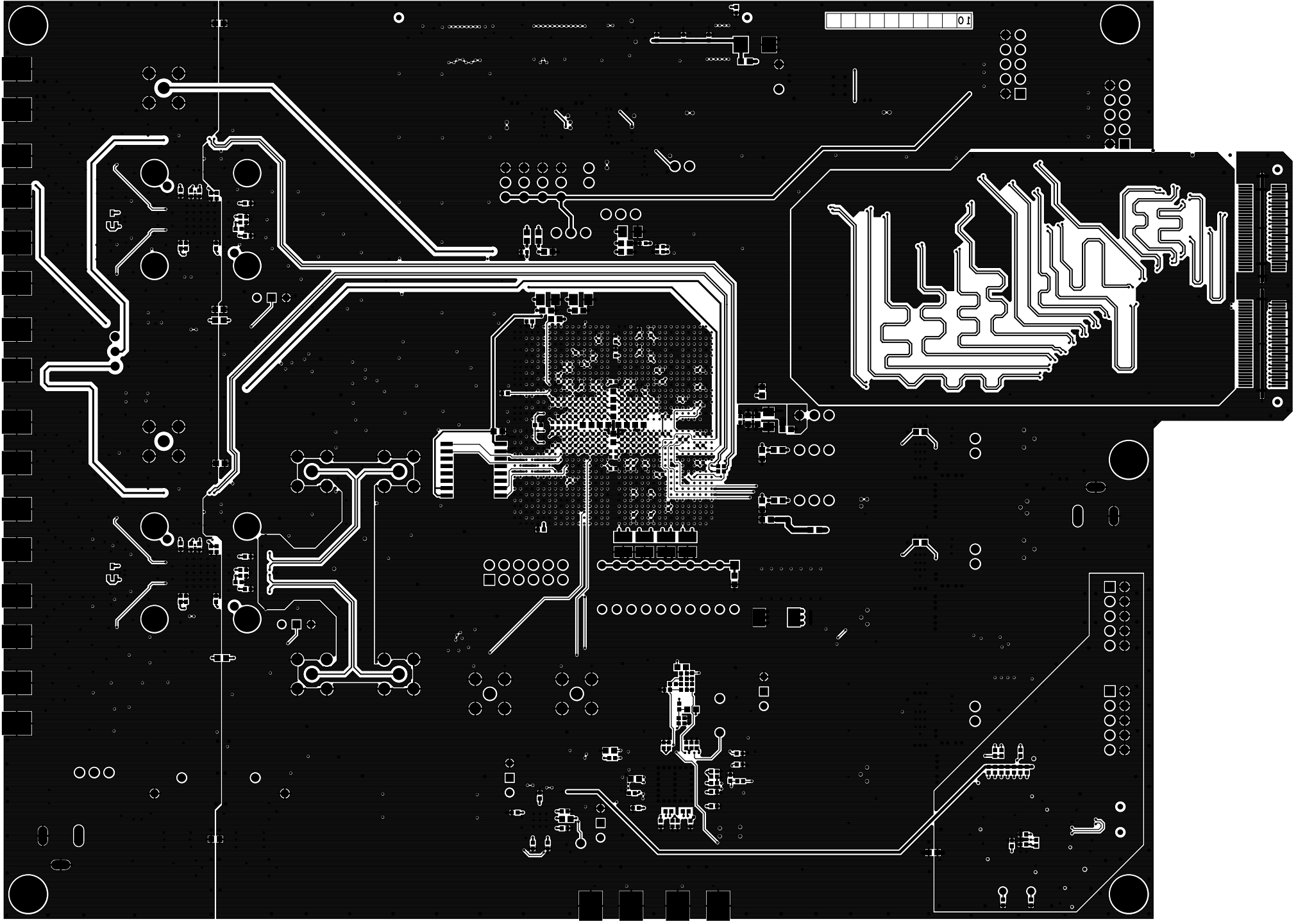


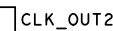
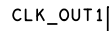
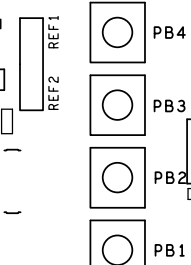
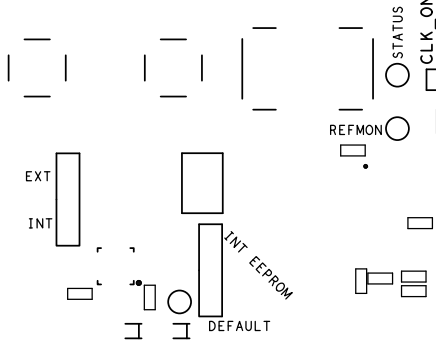
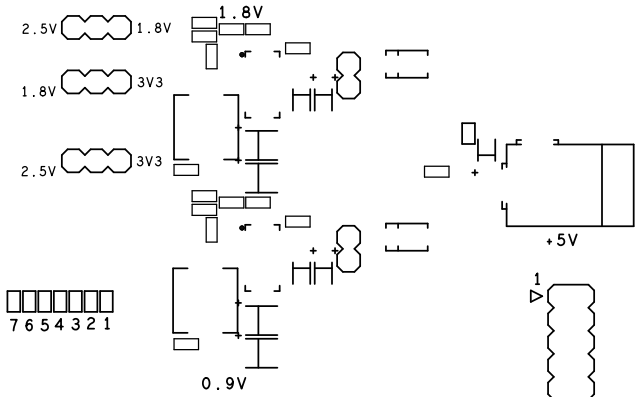
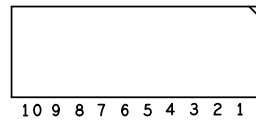
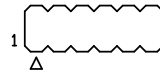
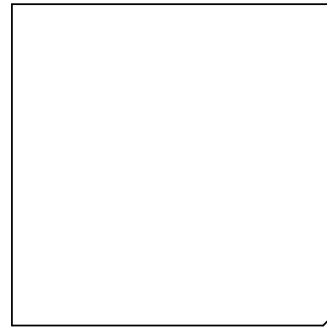
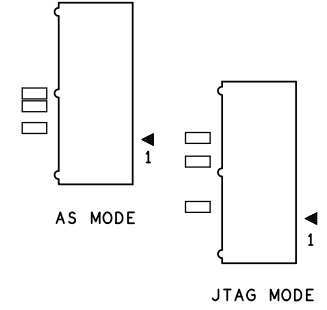
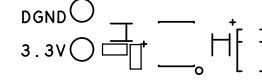
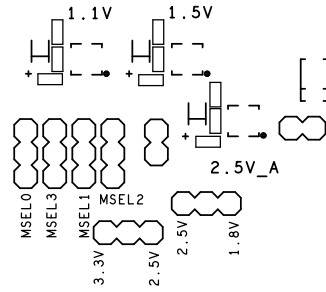
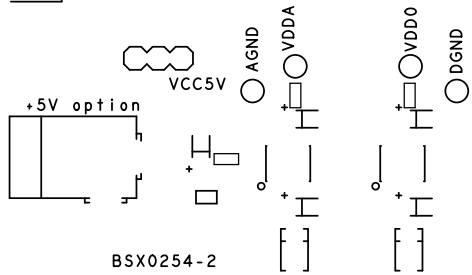
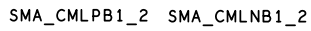
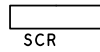
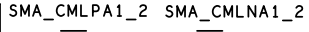
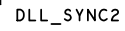
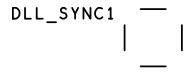
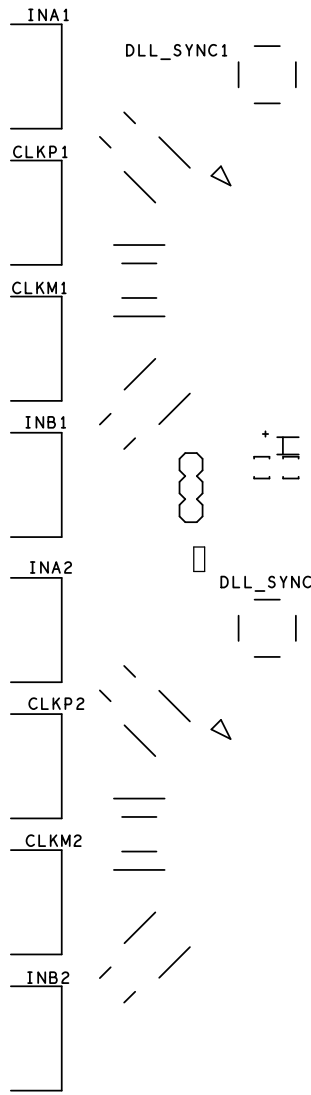


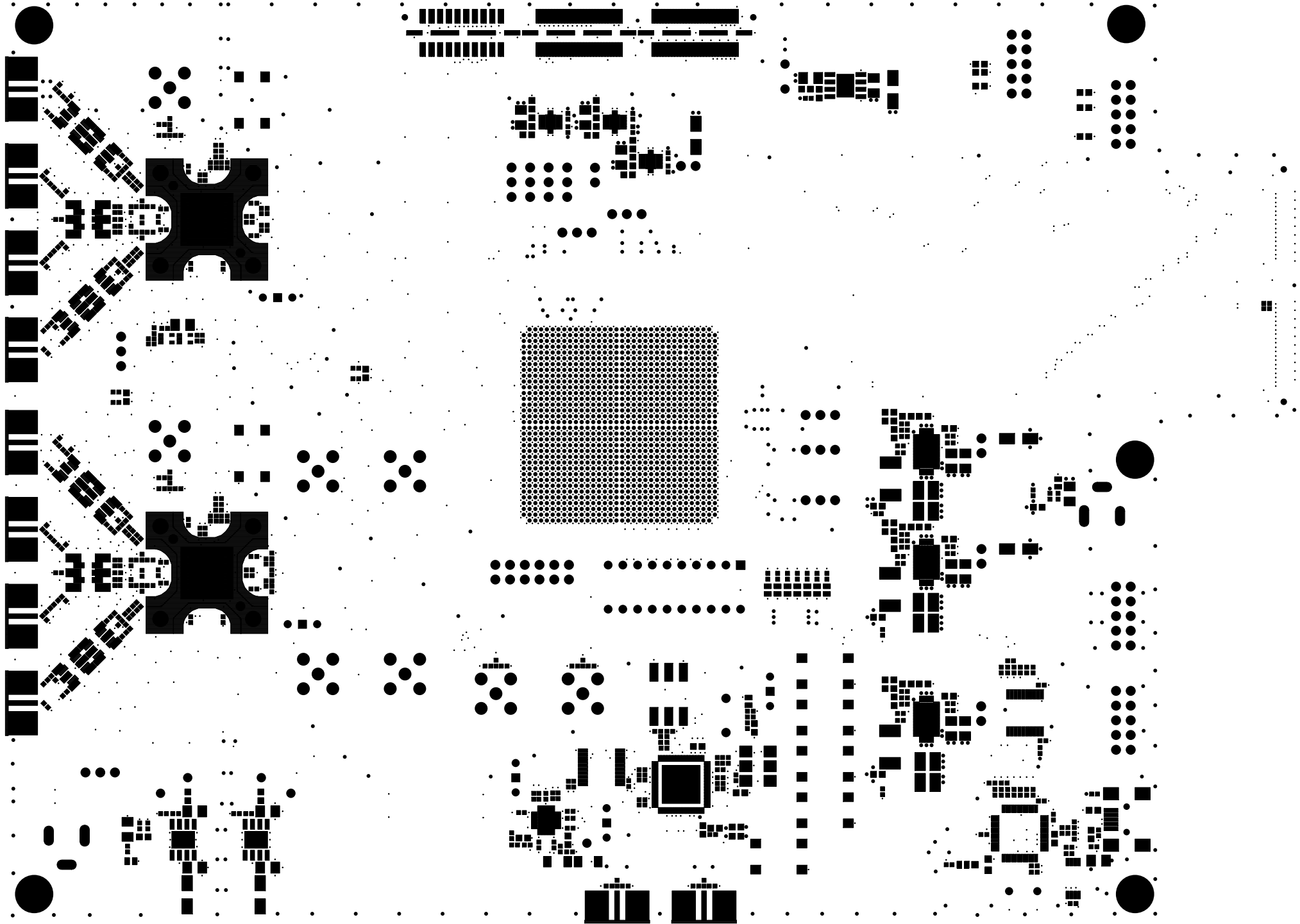


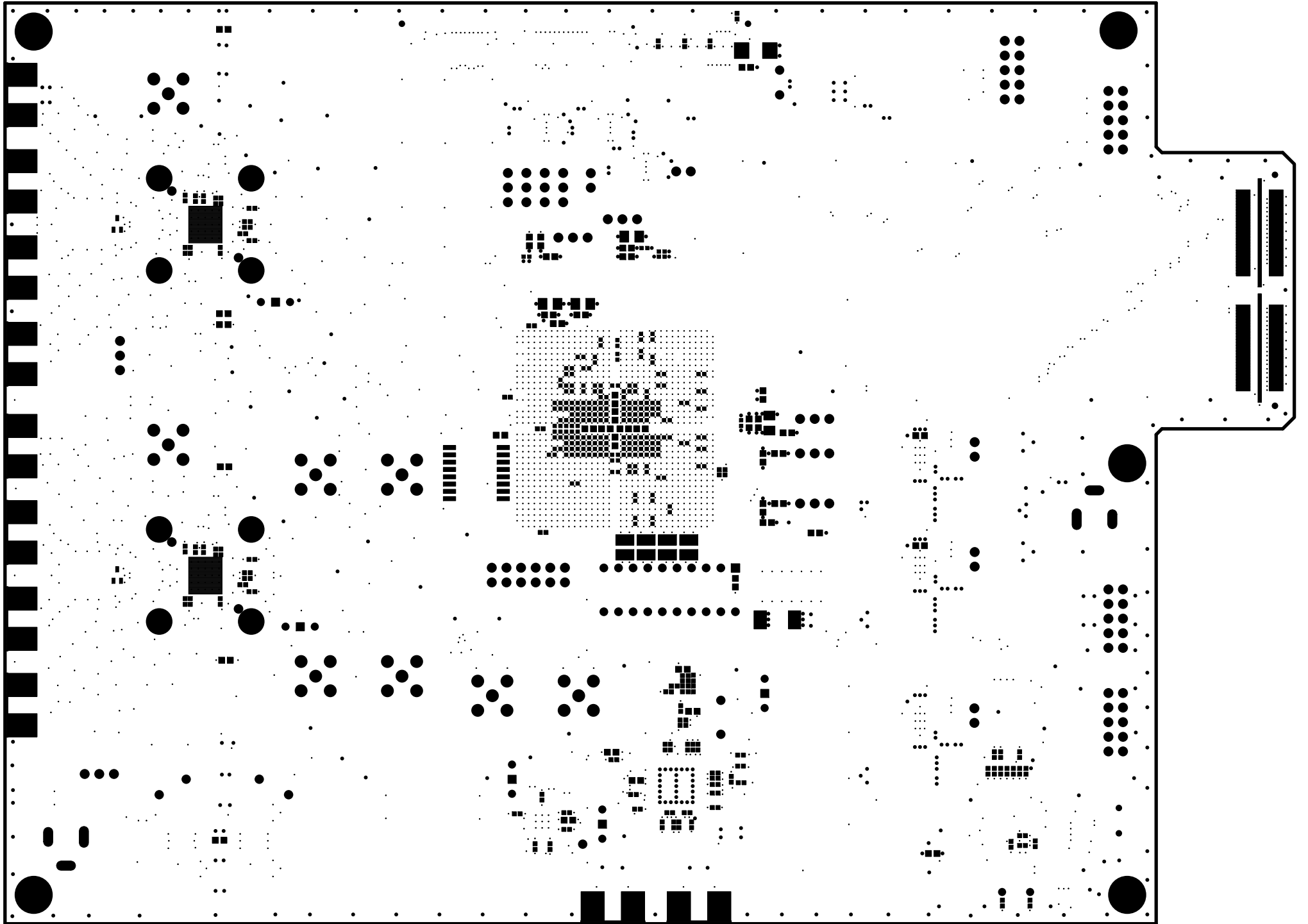


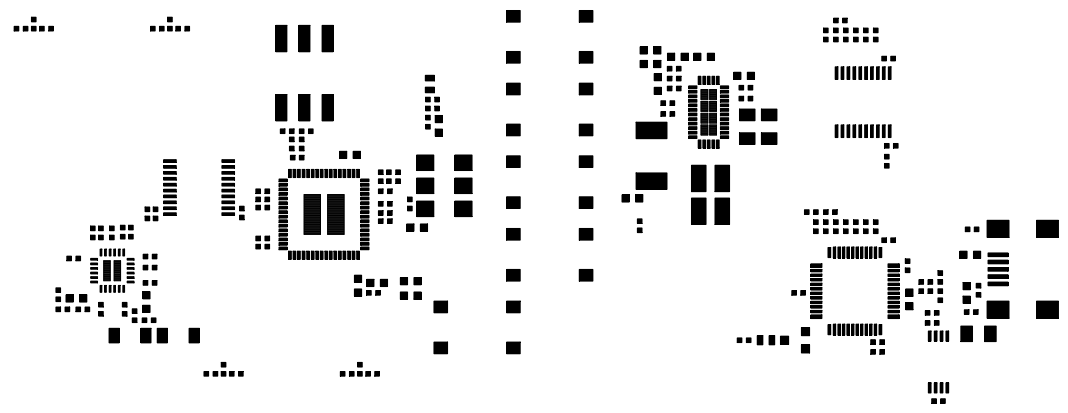
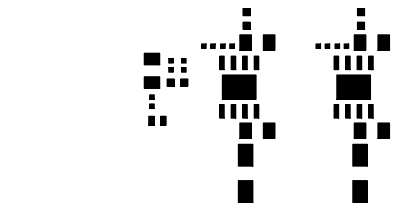
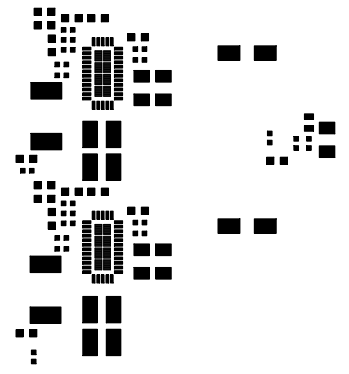
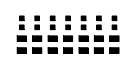
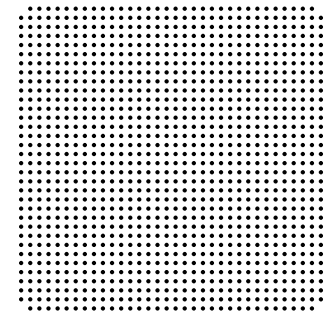
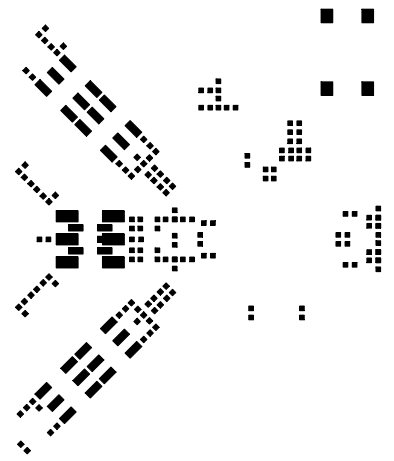
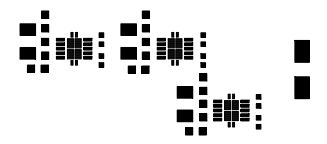
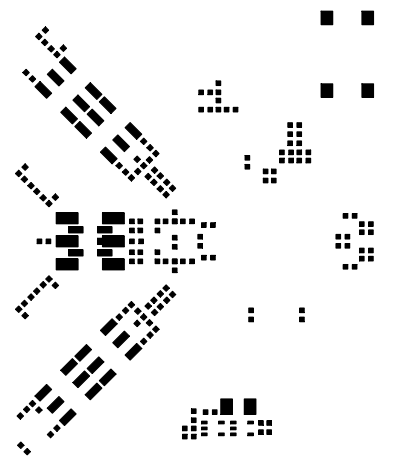
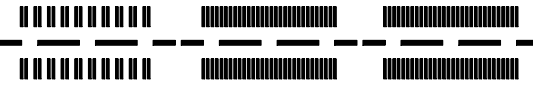


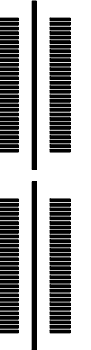
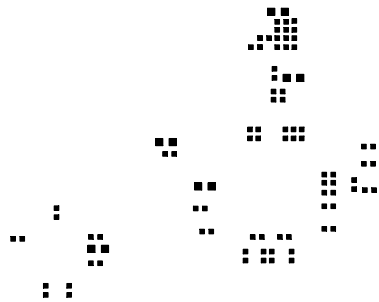
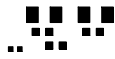


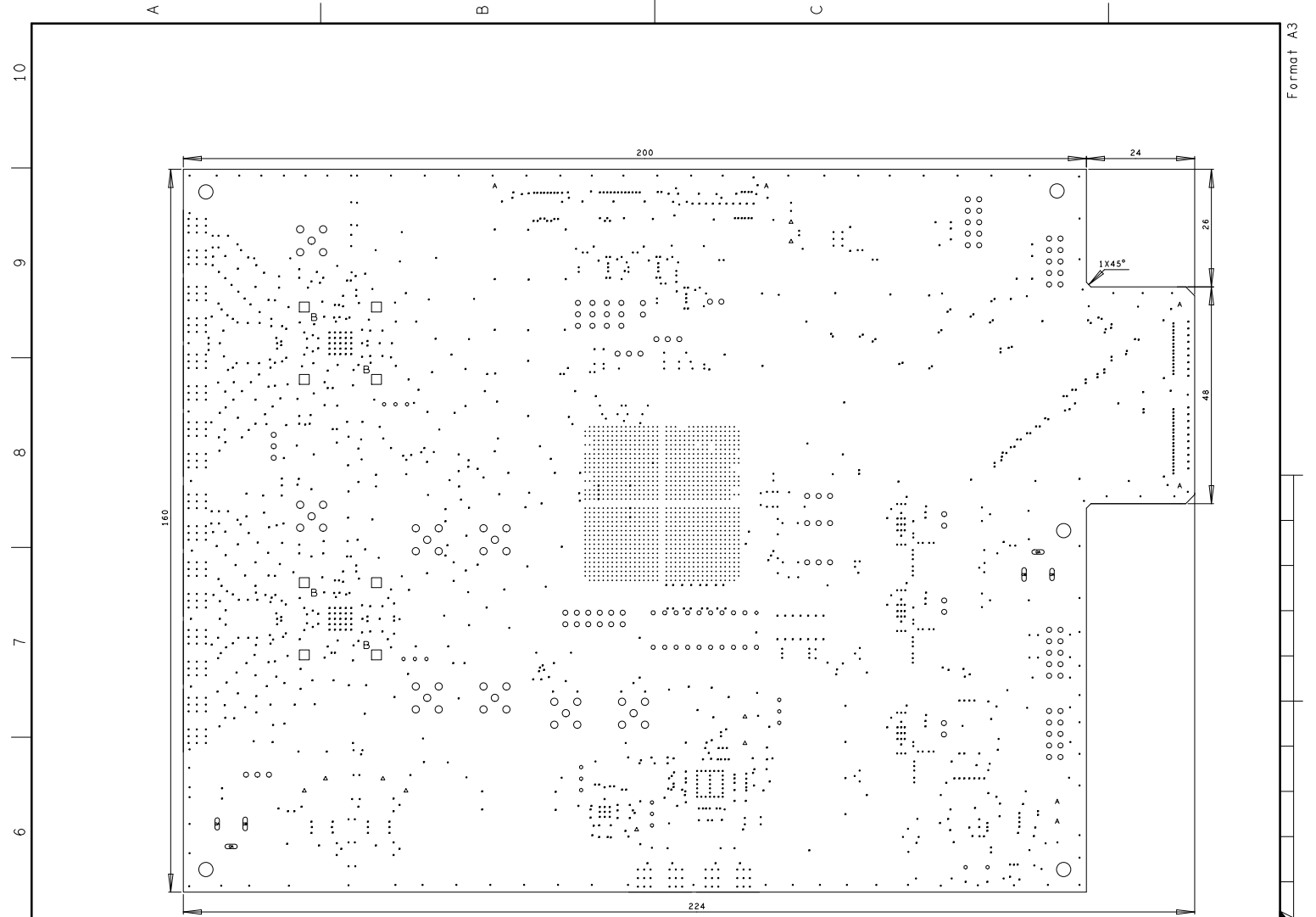












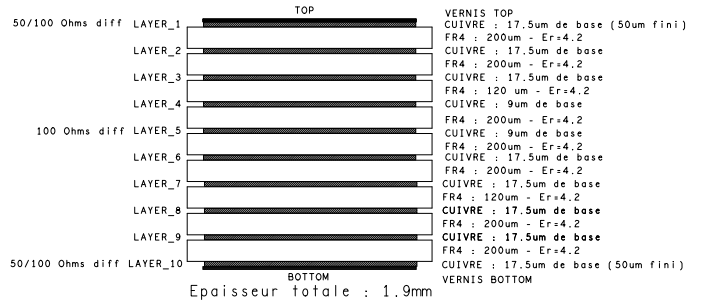
DRILL LAYER

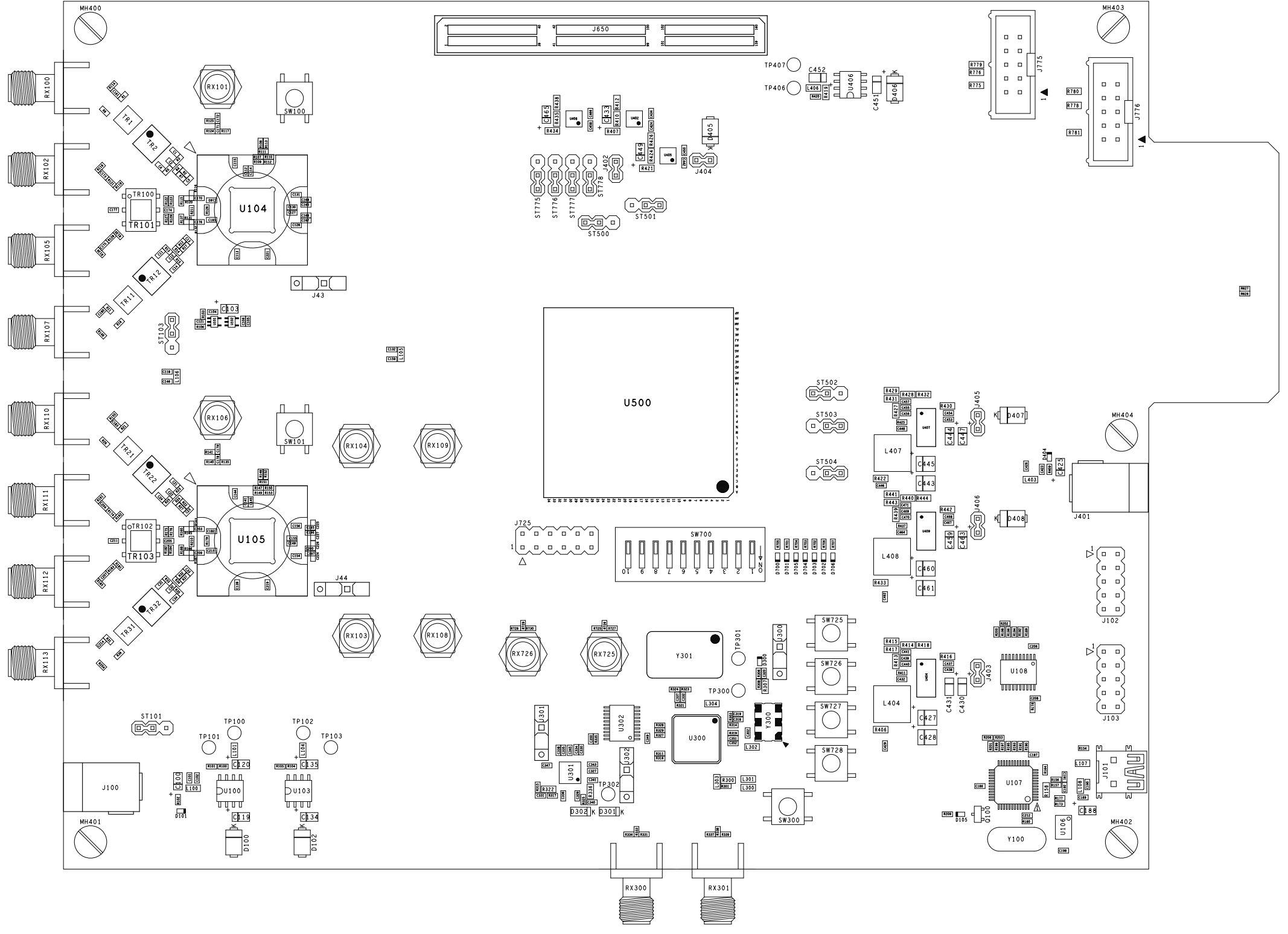
DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
.	0.2	+0.1/-0.05	PLATED	1123
.	0.25	+0.1/-0.05	PLATED	1111
.	0.3	+0.1/-0.05	PLATED	588
o	0.8	+0.1/-0.05	PLATED	17
o	0.9	+0.1/-0.05	PLATED	19
o	0.9	+0.1/-0.05	PLATED	1
Δ	1.0	+0.1/-0.05	PLATED	9
o	1.1	+0.1/-0.05	PLATED	95
o	1.6	+0.1/-0.05	PLATED	40
□	2.2	+0.1/-0.05	PLATED	8
○	3.2	+0.1/-0.05	PLATED	5
A	1.0	+0.0/-0.05	NON-PLATED	6
B	1.55	+0.0/-0.05	NON-PLATED	4
⊞	2.7x1.0	+0.1/-0.05	PLATED	2
⊞	2.7x1.0	+0.1/-0.05	PLATED	2
⊞	3.0x1.0	+0.1/-0.05	PLATED	2

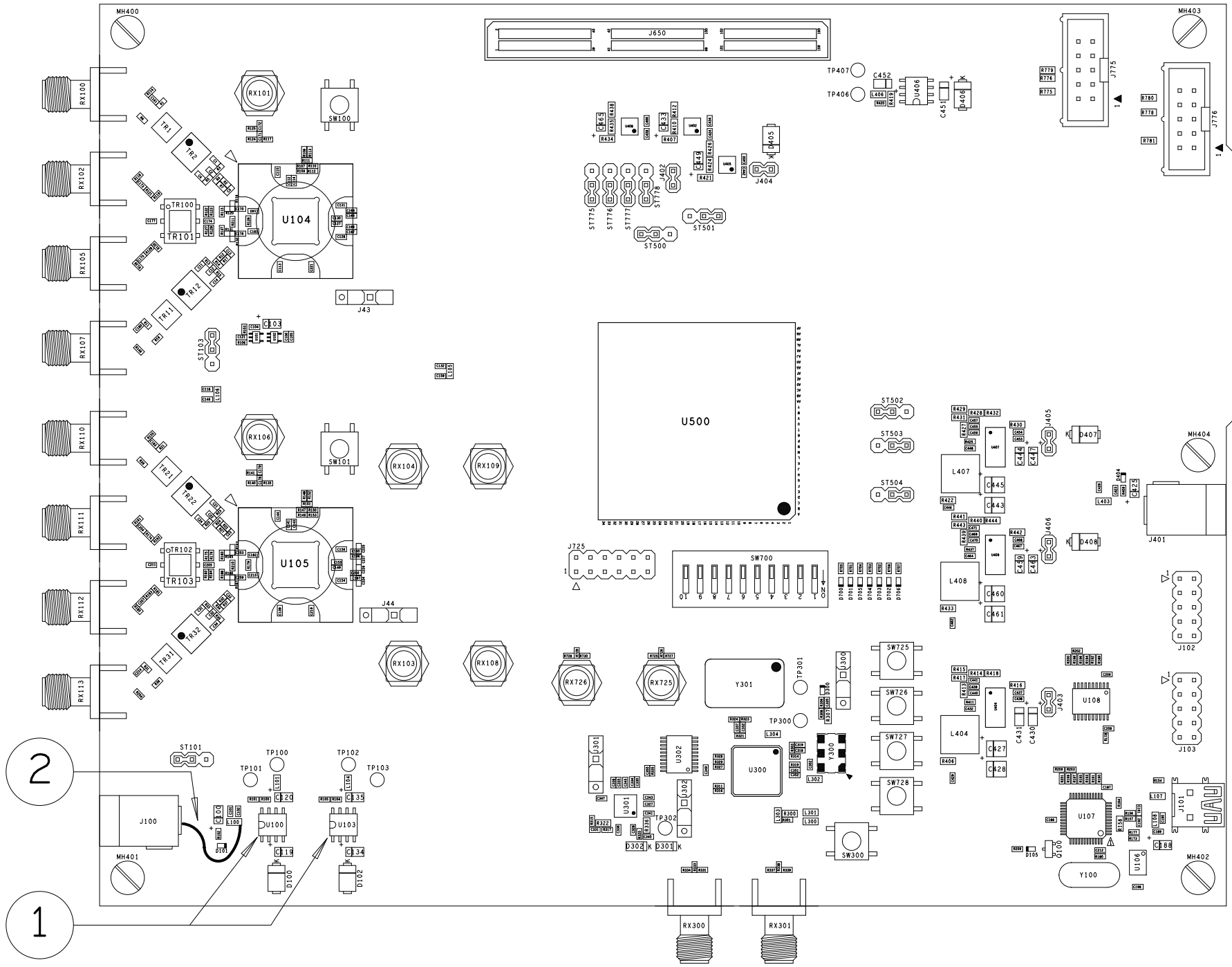
Via 0.2, 0.25, 0.3mm
diamètre percé
(possibilité de tout percer à 0.25mm)

Percages 1.55NM percés en même
temps que les trous Metal

EMPILEMENT 10 COUCHES:







2

1

