JESD204B ADC Evaluation Board Schematics:

ADC1443D125W1-DB
ADC1443D160W1-DB
ADC1159D250W1-DB
ADC1453D250W1-DB

BSX0254-2.a
On board FPGA, Arria II GX

Power supplies

01

Ref: x100 a x299

A connecter en parallèle de U100 et U103

3A-061WP03

DLL SYNC

SPI interface

02

Ref: x300 a x399

2V5_CK L300 2.5V_FPGA
BLM18SG121TN1

3V3_FPGA L301 3V3_CK
BLM18SG121TN1

3V3_CK L302 BLM18SG121TN1
C302 10nF C303 100nF
R302 4K7
Y300 OE VCC NC OUT GNDOUT XTAL_125MHz
C318 10nF R303 100R REFIN/
C319 10nF REFIN
R304 220R R305 220R

3V3_CK R300 NC R301 0R 2V5_CK
L303 BLM18SG121TN1
VCC_IO
(27) (35) (46) (54)
C314 100nF C315 100nF C316 100nF C317 100nF

3V3_CK L304 BLM18SG121TN1 VCP
(4) C300 10nF C301 100nF

3V3_CK
(1) (11) (12) (32) (40) (41) (49) (57) (60) (61)
C304 10nF C305 100nF C306 10nF C307 10nF C308 100nF C309 10nF C310 100nF C311 10nF C312 100nF C313 10nF

D300 KP-1608SGC
R306 1K
R307 NC 3V3_CK
C320 NC
R308 0R

3V3_CK L306 BLM18SG121TN1
C324 10nF C325 100nF
R313 0R
Y301 VC VCC OE OUT2 GND OUT1
NC
C321 1.5nF
R309 240R
C322 18nF
C326 680pF
C323 NC
R310 470R
R312 0R
R320 NC
C329 220nF
C332 10nF
R321 100R
C337 10nF
R323 220R R324 220R

TP300
U300 REFMON LD VCP CP STATUS CPRSET RSET REF SEL REFIN REFIN BYPASS LF CLK CLK PD SYNC RESET EEPROM SP1 SP0 SCLK/SCL SDIO/SDA SDO CS NC
VS1 VS2 VS3 VS4 VS5 VS6 VS7 VS8 VS9 VS10 GND1 GND2 EP
VS_DRV1 VS_DRV2 VS_DRV3 VS_DRV4
OUT0A OUT0B OUT1A OUT1B OUT2A OUT2B OUT3A OUT3B OUT4A OUT4B OUT5A OUT5B OUT8B OUT8A OUT7B OUT7A OUT6B OUT6A OUT11B OUT11A OUT10B OUT10A OUT9B OUT9A
3V3_CK TP301 VCP VCC_IO
REF1 REF2 SW_1K2 J300
R314 5K1 R319 4K12
REFIN REFIN
R326 NC
R327 10K
R328 0R
R329 0R
3V3_CK
SW300 B3S-1000
R330 10K
R332 NC
3V3_CK
INT EEPROM Default Val
SW_1K2 J302

VCC_IO C349 100nF
VCCUSB R335 220K C350 100nF
U302 GND SREF S1 S2 S3 S4 S5 S6 S7 S8 GREF DREF D1 D2 D3 D4 D5 D6 D7 D8
GTL2003PW
CLKGEN_CS_N SDIO_CLK SCLK_CLK

C351 10nF FPGA_REFp
C352 10nF FPGA_REFn
FPGA_4_CLKp
R245 100R
FPGA_4_CLKn
FPGA_3_CLKn
R246 100R
FPGA_3_CLKp
ADC1_CLKN_1 ADC1_CLKP_1 ADC1_CLKN_2 ADC1_CLKP_2

R311 0R
R316 0R
FROM_CLK_P
R315 0R
R322 NC
R317 150R
C331 100nF
TP302 VT0
D301 PMLL4448 D302 PMLL4448
R325 120R 2V5_CK
C340 100nF
EXT INT SW_1K2 J301

U301 IN0 IN1 VREF_AC0 VREF_AC1 VT0 VT1 SEL EP GND1 GND2 GND3 NC SY89474U
VCC1 VCC2 VCC3 VCC4 VCC5 VCC6 VCC7 Q0 Q0 Q1 Q1
2V5_CK R318 NC C327 10nF VT0
C330 10nF FPGA_1_CLKp
C334 10nF FPGA_1_CLKn
C335 10nF FPGA_2_CLKn
C338 10nF FPGA_2_CLKp

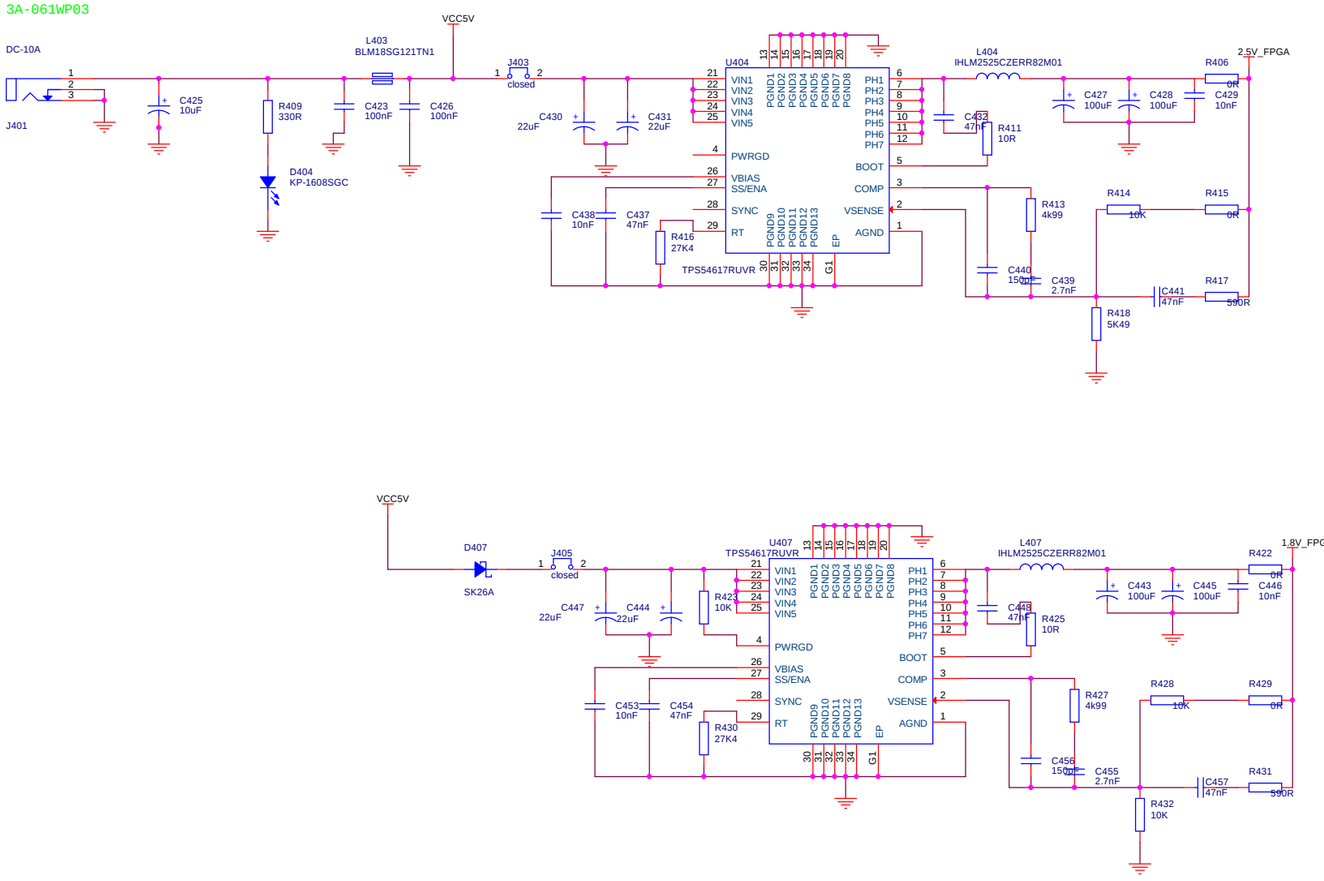
3V3_CK R331 100R RX300 NC CLK_OUT1
R333 10R R334 100R
3V3_CK R337 100R RX301 NC CLK_OUT2
R338 10R R339 100R

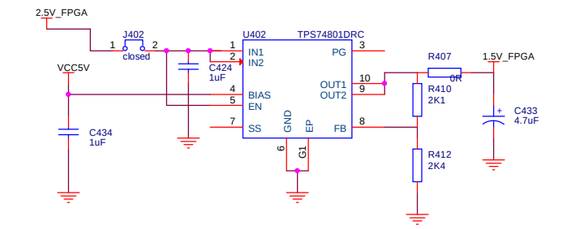
C328 10nF C333 100nF C336 10nF C339 100nF C341 10nF C342 100nF C343 10nF C344 100nF C345 10nF C346 10nF C347 10nF C348 100nF
R336 NC

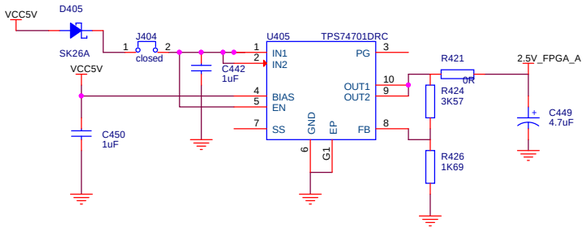
03

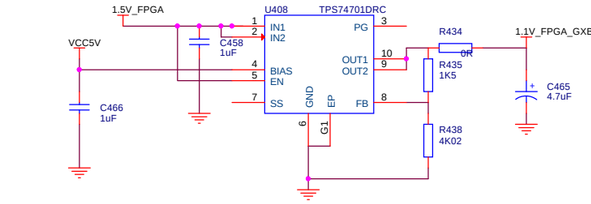
Ref: x400 a x499

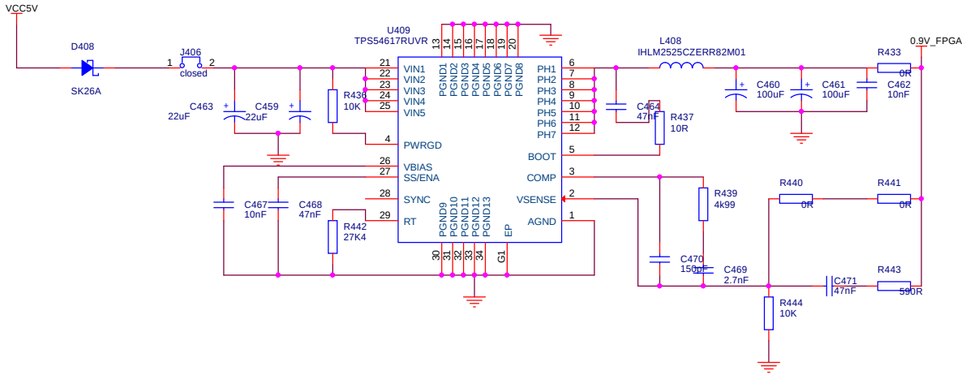
3A-061WP03

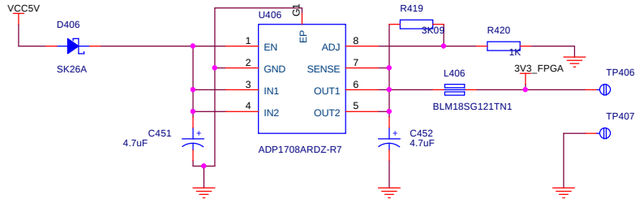


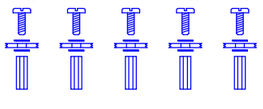




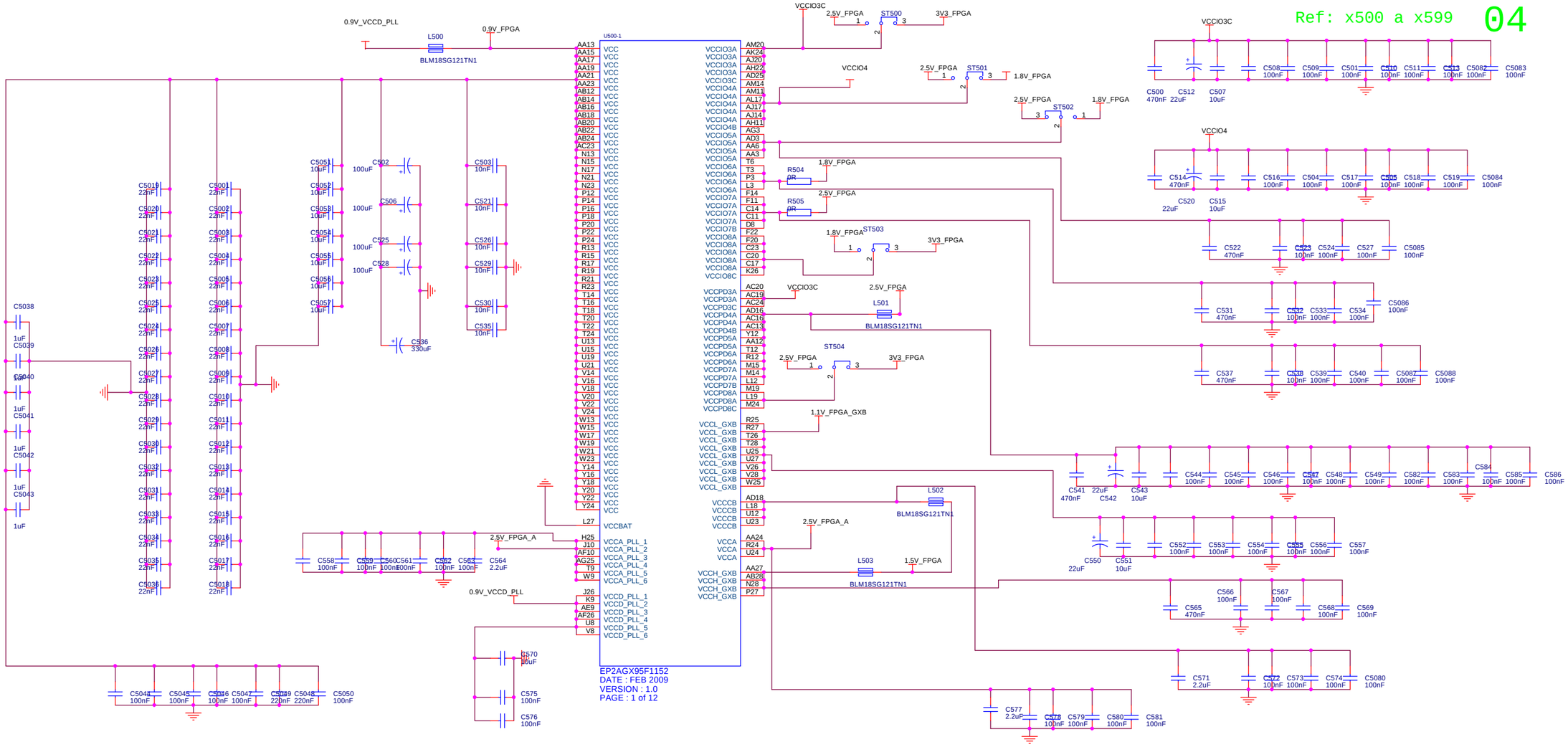








Ref: x500 a x599 04



U500-2

AL27	RDN0	
AL26	RUP0	
AH25	PLL4_CLKOUT1N	
AH24	PLL4_CLKOUT1P	
AD19	IO_3A_AD19/DIFFIO_TX_B8P/DIFFIN_B8P	IO_3A_AL25/DQ14B/DIFFIO_TX_B9N/DIFFIN_B9N AL25
AE18	IO_3A_AE18/DQS12B/DIFFIO_TX_B14P/DIFFIN_B14P	IO_3A_AL29/DQ18B/DIFFIO_TX_B1P/DIFFIN_B1P AL29
AE19	IO_3A_AE19/DQ15B/DIFFIO_TX_B8N/DIFFIN_B8N	IO_3A_AM18/DQSN11B/DIFFIO_TX_B15N/DIFFIN_B15N AM18
AF18	IO_3A_AF18/DQSN12B/DIFFIO_TX_B14N/DIFFIN_B14N	IO_3A_AM19/DIFFIO_RX_B14P/DIFFOUT_B14P AM19
AF19	IO_3A_AF19/DIFFIO_TX_B12P/DIFFIN_B12P	IO_3A_AM21/DQ12B/DIFFIO_TX_B13P/DIFFIN_B13P AM21
AF20	IO_3A_AF20/DIFFIO_TX_B4P/DIFFIN_B4P	IO_3A_AM22/DQ14B/DIFFIO_RX_B9N/DIFFOUT_B9N AM22
AG18	IO_3A_AG18/DIFFIO_TX_B16P/DIFFIN_B16P	IO_3A_AM23/DQ16B/DIFFIO_RX_B5N/DIFFOUT_B5N AM23
AG19	IO_3A_AG19/DQ13B/DIFFIO_TX_B12N/DIFFIN_B12N	IO_3A_AM24/DQ16B/DIFFIO_TX_B5N/DIFFIN_B5N AM24
AG21	IO_3A_AG21/DQ17B/DIFFIO_TX_B4N/DIFFIN_B4N	IO_3A_AM25/DQS17B/DIFFIO_TX_B3P/DIFFIN_B3P AM25
AG22	IO_3A_AG22/DQS16B/DIFFIO_TX_B6P/DIFFIN_B6P	IO_3A_AM26/DQSN17B/DIFFIO_TX_B3N/DIFFIN_B3N AM26
AH19	IO_3A_AH19/DQ11B/DIFFIO_TX_B16N/DIFFIN_B16N	IO_3A_AM27/DIFFIO_RX_B1P/DIFFOUT_B1P AM27
AH20	IO_3A_AH20/DQS14B/DIFFIO_TX_B10P/DIFFIN_B10P	IO_3A_AM28/DQ18B/DIFFIO_RX_B1N/DIFFOUT_B1N AM28
AH21	IO_3A_AH21/DQSN16B/DIFFIO_TX_B6N/DIFFIN_B6N	IO_3A_AM29/DQ18B/DIFFIO_TX_B1N/DIFFIN_B1N AM29
AH23	IO_3A_AH23/DQ15B/DIFFIO_RX_B8P/DIFFOUT_B8P	IO_3A_AN18/DIFFIO_RX_B15P/DIFFOUT_B15P AN18
AJ18	IO_3A_AJ18/DQ11B/DIFFIO_RX_B16P/DIFFOUT_B16P	IO_3A_AN19/DQ12B/DIFFIO_RX_B14N/DIFFOUT_B14N AN19
AJ21	IO_3A_AJ21/DQSN14B/DIFFIO_TX_B10N/DIFFIN_B10N	IO_3A_AN21/DQ12B/DIFFIO_TX_B13N/DIFFIN_B13N AN21
AJ22	IO_3A_AJ22/DIFFIO_RX_B3P/DIFFOUT_B3P	IO_3A_AN22/DIFFIO_RX_B11P/DIFFOUT_B11P AN22
AJ23	IO_3A_AJ23/DQ15B/DIFFIO_RX_B8N/DIFFOUT_B8N	IO_3A_AN24/DQS15B/DIFFIO_TX_B7P/DIFFIN_B7P AN24
AJ24	IO_3A_AJ24/DQS18B/DIFFIO_TX_B2P/DIFFIN_B2P	IO_3A_AN25/DIFFIO_RX_B7P/DIFFOUT_B7P AN25
AJ25	IO_3A_AJ25/DQSN18B/DIFFIO_TX_B2N/DIFFIN_B2N	IO_3A_AN27/DIFFIO_RX_B2P/DIFFOUT_B2P AN27
AK18	IO_3A_AK18/DQ11B/DIFFIO_RX_B16N/DIFFOUT_B16N	IO_3A_AN28/DQ18B/DIFFIO_RX_B2N/DIFFOUT_B2N AN28
AK21	IO_3A_AK21/DIFFIO_RX_B10P/DIFFOUT_B10P	IO_3A_AP18/DQ11B/DIFFIO_RX_B15N/DIFFOUT_B15N AP18
AK22	IO_3A_AK22/DQ17B/DIFFIO_RX_B3N/DIFFOUT_B3N	IO_3A_AP19/DIFFIO_RX_B13P/DIFFOUT_B13P AP19
AK25	IO_3A_AK25/DQ14B/DIFFIO_TX_B9P/DIFFIN_B9P	IO_3A_AP20/DQ12B/DIFFIO_RX_B13N/DIFFOUT_B13N AP20
AL18	IO_3A_AL18/DQS11B/DIFFIO_TX_B15P/DIFFIN_B15P	IO_3A_AP21/DQS13B/DIFFIO_TX_B11P/DIFFIN_B11P AP21
AL19	IO_3A_AL19/DQ13B/DIFFIO_RX_B12P/DIFFOUT_B12P	IO_3A_AP22/DQSN13B/DIFFIO_TX_B11N/DIFFIN_B11N AP22
AL20	IO_3A_AL20/DQ13B/DIFFIO_RX_B12N/DIFFOUT_B12N	IO_3A_AP23/DQ13B/DIFFIO_RX_B11N/DIFFOUT_B11N AP23
AL21	IO_3A_AL21/DQ14B/DIFFIO_RX_B10N/DIFFOUT_B10N	IO_3A_AP24/DQSN15B/DIFFIO_TX_B7N/DIFFIN_B7N AP24
AL22	IO_3A_AL22/DIFFIO_RX_B9P/DIFFOUT_B9P	IO_3A_AP25/DQ15B/DIFFIO_RX_B7N/DIFFOUT_B7N AP25
AL24	IO_3A_AL24/DQ16B/DIFFIO_TX_B5P/DIFFIN_B5P	IO_3A_AP27/DQ16B/DIFFIO_RX_B6N/DIFFOUT_B6N AP27
		IO_3A_AP28/DQ17B/DIFFIO_RX_B4P/DIFFOUT_B4P AP28
		IO_3A_AP29/DQ17B/DIFFIO_RX_B4N/DIFFOUT_B4N AP29

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Ref: x626a x649

U500-3

J626

R626 0R

R627 0R

		AJ13	PLL3_CLKOUT1N		
		AH14	PLL3_CLKOUT1P		
		AF14	PLL3_CLKOUT2N		
		AE14	PLL3_CLKOUT2P		
		AH12	PLL3_CLKOUT3N		
		AG12	PLL3_CLKOUT3P		
		AC14	IO_4A_AC14/DIFFIO_TX_B28P/DIFFIN_B28P	IO_4B_AE12/DIFFIO_TX_B36P/DIFFIN_B36P	AE12 diff_b36P
diff_b28P		AC15	IO_4A_AC15/DQ5B/DIFFIO_TX_B28N/DIFFIN_B28N	IO_4B_AE13/DQS2B/DIFFIO_TX_B34P/DIFFIN_B34P	AE13
diff_b28N		AC17	IO_4A_AC17/DIFFIO_TX_B20P/DIFFIN_B20P	IO_4B_AF12/DQ1B/DIFFIO_TX_B36N/DIFFIN_B36N	AF12 diff_b36N
diff_b20P		AC18	IO_4A_AC18/DQ9B/DIFFIO_TX_B20N/DIFFIN_B20N	IO_4B_AF13/DQSN2B/DIFFIO_TX_B34N/DIFFIN_B34N	AF13
diff_b20N		AE15	IO_4A_AE15/DQS4B/DIFFIO_TX_B30P/DIFFIN_B30P	IO_4B_AJ10/DQ2B/DIFFIO_TX_B33P/DIFFIN_B33P	AJ10
diff_b30P		AE16	IO_4A_AE16/DQS6B/DIFFIO_TX_B26P/DIFFIN_B26P	IO_4B_AJ7/DQ1B/DIFFIO_RX_B37P/DIFFOUT_B37P	AJ7
diff_b26P		AE17	IO_4A_AE17/DQS10B/DIFFIO_TX_B18P/DIFFIN_B18P	IO_4B_AK10/DQ2B/DIFFIO_TX_B33N/DIFFIN_B33N	AK10
	diff_b30N	AF15	IO_4A_AF15/DQSN4B/DIFFIO_TX_B30N/DIFFIN_B30N	IO_4B_AK6/DQS1B/DIFFIO_TX_B35P/DIFFIN_B35P	AK6
	diff_b26N	AF16	IO_4A_AF16/DQSN6B/DIFFIO_TX_B26N/DIFFIN_B26N	IO_4B_AK7/DQ1B/DIFFIO_RX_B37N/DIFFOUT_B37N	AK7
		AF17	IO_4A_AF17/DQSN10B/DIFFIO_TX_B18N/DIFFIN_B18N	IO_4B_AK9/DIFFIO_RX_B34P/DIFFOUT_B34P	AK9
		AG13	IO_4A_AG13/DIFFIO_RX_B33P/DIFFOUT_B33P	IO_4B_AL6/DQSN1B/DIFFIO_TX_B35N/DIFFIN_B35N	AL6
	diff_b24P	AG15	IO_4A_AG15/DIFFIO_TX_B24P/DIFFIN_B24P	IO_4B_AL7/DIFFIO_RX_B35P/DIFFOUT_B35P	AL7
	diff_b22P	AG16	IO_4A_AG16/DQS8B/DIFFIO_TX_B22P/DIFFIN_B22P	IO_4B_AL8/DQ2B/DIFFIO_RX_B35N/DIFFOUT_B35N	AL8
		AH13	IO_4A_AH13/DIFFIO_RX_B33N/DIFFOUT_B33N	IO_4B_AL9/DQ2B/DIFFIO_RX_B34N/DIFFOUT_B34N	AL9
	diff_b24N	AH15	IO_4A_AH15/DQ7B/DIFFIO_TX_B24N/DIFFIN_B24N	IO_4B_AM5/DIFFIO_RX_B36P/DIFFOUT_B36P	AM5
	diff_b22N	AH16	IO_4A_AH16/DQSN8B/DIFFIO_TX_B22N/DIFFIN_B22N	IO_4B_AM6/DQ1B/DIFFIO_RX_B36N/DIFFOUT_B36N	AM6
	diff_b17P	AH17	IO_4A_AH17/DQ10B/DIFFIO_TX_B17P/DIFFIN_B17P		
	diff_b17N	AH18	IO_4A_AH18/DQ10B/DIFFIO_TX_B17N/DIFFIN_B17N		
		AJ11	IO_4A_AJ11/DQ3B/DIFFIO_RX_B32P/DIFFOUT_B32P		
		AJ12	IO_4A_AJ12/DQ3B/DIFFIO_RX_B32N/DIFFOUT_B32N		
	diff_b32P	AJ15	IO_4A_AJ15/DIFFIO_TX_B32P/DIFFIN_B32P		
	diff_b32N	AJ16	IO_4A_AJ16/DQ3B/DIFFIO_TX_B32N/DIFFIN_B32N		
		AK12	IO_4A_AK12/DQ5B/DIFFIO_RX_B28P/DIFFOUT_B28P		
	diff_b27P	AK13	IO_4A_AK13/DQS5B/DIFFIO_TX_B27P/DIFFIN_B27P		
	diff_b323P	AK15	IO_4A_AK15/DQS7B/DIFFIO_TX_B23P/DIFFIN_B23P		
	diff_b21P	AK16	IO_4A_AK16/DQ8B/DIFFIO_TX_B21P/DIFFIN_B21P		
		AL10	IO_4A_AL10/DIFFIO_RX_B30P/DIFFOUT_B30P		
		AL11	IO_4A_AL11/DQ5B/DIFFIO_RX_B28N/DIFFOUT_B28N		
	diff_b27N	AL12	IO_4A_AL12/DQSN5B/DIFFIO_TX_B27N/DIFFIN_B27N		
		AL13	IO_4A_AL13/DIFFIO_RX_B25P/DIFFOUT_B25P		
		AL14	IO_4A_AL14/DQ6B/DIFFIO_RX_B25N/DIFFOUT_B25N		
	diff_b23N	AL15	IO_4A_AL15/DQSN7B/DIFFIO_TX_B23N/DIFFIN_B23N		
	diff_b21N	AL16	IO_4A_AL16/DQ8B/DIFFIO_TX_B21N/DIFFIN_B21N		
		AM10	IO_4A_AM10/DQ4B/DIFFIO_RX_B30N/DIFFOUT_B30N		
		AM12	IO_4A_AM12/DIFFIO_RX_B22P/DIFFOUT_B22P		
		AM13	IO_4A_AM13/DQ9B/DIFFIO_RX_B20P/DIFFOUT_B20P		
		AM15	IO_4A_AM15/DIFFIO_RX_B19P/DIFFOUT_B19P		
	diff_b19P	AM16	IO_4A_AM16/DQS9B/DIFFIO_TX_B19P/DIFFIN_B19P		
	diff_b19N	AM17	IO_4A_AM17/DQSN9B/DIFFIO_TX_B19N/DIFFIN_B19N		
	diff_b31P	AM7	IO_4A_AM7/DQS3B/DIFFIO_TX_B31P/DIFFIN_B31P		
	diff_b31N	AM8	IO_4A_AM8/DQSN3B/DIFFIO_TX_B31N/DIFFIN_B31N		
		AM9	IO_4A_AM9/DIFFIO_RX_B29P/DIFFOUT_B29P		
		AN10	IO_4A_AN10/DIFFIO_RX_B23P/DIFFOUT_B23P		
		AN12	IO_4A_AN12/DQ8B/DIFFIO_RX_B22N/DIFFOUT_B22N		
		AN13	IO_4A_AN13/DQ9B/DIFFIO_RX_B20N/DIFFOUT_B20N		
		AN15	IO_4A_AN15/DQ9B/DIFFIO_RX_B19N/DIFFOUT_B19N		
diff_b18P		AN16	IO_4A_AN16/DIFFIO_RX_B17P/DIFFOUT_B17P		
diff_b18N		AN3	IO_4A_AN3/DIFFIO_RX_B31P/DIFFOUT_B31P		
		AN4	IO_4A_AN4/DQ3B/DIFFIO_RX_B31N/DIFFOUT_B31N		
		AN6	IO_4A_AN6/DIFFIO_RX_B26P/DIFFOUT_B26P		
	diff_b25P	AN7	IO_4A_AN7/DQ6B/DIFFIO_TX_B25P/DIFFIN_B25P		
		AN9	IO_4A_AN9/DQ4B/DIFFIO_RX_B29N/DIFFOUT_B29N		
		AP10	IO_4A_AP10/DQ7B/DIFFIO_RX_B23N/DIFFOUT_B23N		
		AP11	IO_4A_AP11/DIFFIO_RX_B21P/DIFFOUT_B21P		
		AP12	IO_4A_AP12/DQ8B/DIFFIO_RX_B21N/DIFFOUT_B21N		
		AP13	IO_4A_AP13/DIFFIO_RX_B18P/DIFFOUT_B18P		
		AP14	IO_4A_AP14/DQ10B/DIFFIO_RX_B18N/DIFFOUT_B18N		
		AP15	IO_4A_AP15/DQ10B/DIFFIO_RX_B17N/DIFFOUT_B17N		
	diff_b29P	AP2	IO_4A_AP2/DQ4B/DIFFIO_TX_B29P/DIFFIN_B29P		
	diff_b29N	AP3	IO_4A_AP3/DQ4B/DIFFIO_TX_B29N/DIFFIN_B29N		
		AP4	IO_4A_AP4/DIFFIO_RX_B27P/DIFFOUT_B27P		
		AP5	IO_4A_AP5/DQ5B/DIFFIO_RX_B27N/DIFFOUT_B27N		
		AP6	IO_4A_AP6/DQ6B/DIFFIO_RX_B26N/DIFFOUT_B26N		
	diff_b25N	AP7	IO_4A_AP7/DQ6B/DIFFIO_TX_B25N/DIFFIN_B25N		
		AP8	IO_4A_AP8/DQ7B/DIFFIO_RX_B24P/DIFFOUT_B24P		
		AP9	IO_4A_AP9/DQ7B/DIFFIO_RX_B24N/DIFFOUT_B24N		

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NC

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J650B

HSMC8 HSMC6 HSMC5 HSMC4 HSMC1 HSMC16 HSMC12 HSMC15 HSMC9 HSMC3 HSMC7 HSMC2 HSMC14 HSMC13 HSMC10 HSMC11 HSMA_CLKp HSMA_CLKn NC

U500-4

diff_9N diff_9P

HSMC1 HSMC2 HSMC3 HSMC4 HSMC5 HSMC6 HSMC7 HSMC8

IO_5A_AA1/DQ11R/DIFFIO_RX_R11N/DIFFOUT_R11N
IO_5A_AA10/DQS14R/DIFFIO_TX_R6P/DIFFIN_R6P
IO_5A_AA4/DQSN11R/DIFFIO_TX_R11N/DIFFIN_R11N
IO_5A_AA7/DIFFIO_TX_R4P/DIFFIN_R4P
IO_5A_AA9/DQSN14R/DIFFIO_TX_R6N/DIFFIN_R6N
IO_5A_AB1/DQ12R/DIFFIO_RX_R10N/DIFFOUT_R10N
IO_5A_AB10/DQS16R/DIFFIO_TX_R2P/DIFFIN_R2P
IO_5A_AB2/DIFFIO_RX_R10P/DIFFOUT_R10P
IO_5A_AB3/DQ12R/DIFFIO_RX_R9N/DIFFOUT_R9N
IO_5A_AB4/DIFFIO_RX_R9P/DIFFOUT_R9P
IO_5A_AB5/DQ14R/DIFFIO_RX_R6N/DIFFOUT_R6N
IO_5A_AB6/DIFFIO_RX_R6P/DIFFOUT_R6P
IO_5A_AB7/DQ16R/DIFFIO_RX_R2N/DIFFOUT_R2N
IO_5A_AB8/DIFFIO_RX_R2P/DIFFOUT_R2P
IO_5A_AB9/DQSN16R/DIFFIO_TX_R2N/DIFFIN_R2N
IO_5A_AC1/DQ13R/DIFFIO_RX_R8P/DIFFOUT_R8P
IO_5A_AC2/DQ12R/DIFFIO_TX_R9N/DIFFIN_R9N
IO_5A_AC3/DQ12R/DIFFIO_TX_R9P/DIFFIN_R9P
IO_5A_AC4/DQ13R/DIFFIO_RX_R7N/DIFFOUT_R7N
IO_5A_AC5/DIFFIO_RX_R7P/DIFFOUT_R7P
IO_5A_AC6/DQ16R/DIFFIO_RX_R1N/DIFFOUT_R1N
IO_5A_AC7/DIFFIO_RX_R1P/DIFFOUT_R1P
IO_5A_AD1/DQ13R/DIFFIO_RX_R8N/DIFFOUT_R8N
IO_5A_AD4/DQS13R/DIFFIO_TX_R7P/DIFFIN_R7P
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IO_5A_AD7/DQ16R/DIFFIO_TX_R1P/DIFFIN_R1P
IO_5A_AE1/DQ14R/DIFFIO_RX_R5N/DIFFOUT_R5N
IO_5A_AE2/DIFFIO_RX_R5P/DIFFOUT_R5P
IO_5A_AE3/DQSN13R/DIFFIO_TX_R7N/DIFFIN_R7N
IO_5A_AE4/DIFFIO_RX_R3P/DIFFOUT_R3P
IO_5A_AF1/DQ15R/DIFFIO_RX_R4P/DIFFOUT_R4P
IO_5A_AF2/DQ14R/DIFFIO_TX_R5N/DIFFIN_R5N
IO_5A_AF3/DQ14R/DIFFIO_TX_R5P/DIFFIN_R5P
IO_5A_AF4/DQ15R/DIFFIO_RX_R3N/DIFFOUT_R3N
IO_5A_AG1/DQ15R/DIFFIO_RX_R4N/DIFFOUT_R4N
IO_5A_AH1/DQSN15R/DIFFIO_TX_R3N/DIFFIN_R3N

HSMC8

IO_5A_AH2/DQS15R/DIFFIO_TX_R3P/DIFFIN_R3P
IO_5A_U7/DQ9R/DIFFIO_RX_R16P/DIFFOUT_R16P
IO_5A_V1/DQ9R/DIFFIO_RX_R15N/DIFFOUT_R15N
IO_5A_V10/DQSN10R/DIFFIO_TX_R14N/DIFFIN_R14N
IO_5A_V11/DQS10R/DIFFIO_TX_R14P/DIFFIN_R14P
IO_5A_V12/DIFFIO_TX_R16P/DIFFIN_R16P
IO_5A_V2/DIFFIO_RX_R15P/DIFFOUT_R15P
IO_5A_V3/DQSN9R/DIFFIO_TX_R15N/DIFFIN_R15N
IO_5A_V4/DQS9R/DIFFIO_TX_R15P/DIFFIN_R15P
IO_5A_V7/DQ9R/DIFFIO_RX_R16N/DIFFOUT_R16N
IO_5A_W1/DQ10R/DIFFIO_RX_R13N/DIFFOUT_R13N
IO_5A_W10/DIFFIO_TX_R12P/DIFFIN_R12P
IO_5A_W12/DQ9R/DIFFIO_TX_R16N/DIFFIN_R16N
IO_5A_W3/DQ10R/DIFFIO_RX_R14N/DIFFOUT_R14N
IO_5A_W4/DIFFIO_RX_R14P/DIFFOUT_R14P
IO_5A_W6/DQ10R/DIFFIO_TX_R13N/DIFFIN_R13N
IO_5A_W7/DQ10R/DIFFIO_TX_R13P/DIFFIN_R13P
IO_5A_Y1/DIFFIO_RX_R11P/DIFFOUT_R11P
IO_5A_Y10/DQSN12R/DIFFIO_TX_R10N/DIFFIN_R10N
IO_5A_Y11/DQS12R/DIFFIO_TX_R10P/DIFFIN_R10P
IO_5A_Y2/DIFFIO_RX_R13P/DIFFOUT_R13P
IO_5A_Y3/DQ11R/DIFFIO_RX_R12N/DIFFOUT_R12N
IO_5A_Y4/DQ11R/DIFFIO_RX_R12P/DIFFOUT_R12P
IO_5A_Y5/DQS11R/DIFFIO_TX_R11P/DIFFIN_R11P
IO_5A_Y6/DQ15R/DIFFIO_TX_R4N/DIFFIN_R4N
IO_5A_Y7/DQ13R/DIFFIO_TX_R8N/DIFFIN_R8N
IO_5A_Y8/DIFFIO_TX_R8P/DIFFIN_R8P
IO_5A_Y9/DQ11R/DIFFIO_TX_R12N/DIFFIN_R12N

HSMC9 HSMC15 HSMC10 HSMC11 HSMC12 HSMC13 HSMC14 HSMC16

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J650A

HSMA_TX3_p HSMA_TX3_n HSMA_TX2_p HSMA_TX2_n HSMA_TX1_p HSMA_TX1_n HSMA_TX0_p HSMA_TX0_n HSMA_RX3_p HSMA_RX3_n HSMA_RX2_p HSMA_RX2_n HSMA_RX1_p HSMA_RX1_n HSMA_RX0_p HSMA_RX0_n NC

HSMA2_CLKn HSMA2_CLKp

J650C

NC

R650 0R

3V3_FPGA

R651 0R

C650 100nF C651 10uF C652 100nF C653 100nF

diff_9P diff_9N

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U500-5

C1	IO_6A_C1/DQ3R/DIFFIO_RX_R28N/DIFFOUT_R28N		
C2	IO_6A_C2/DQ3R/DIFFIO_RX_R28P/DIFFOUT_R28P		
D1	IO_6A_D1/DQ4R/DIFFIO_RX_R26N/DIFFOUT_R26N		
D2	IO_6A_D2/DIFFIO_RX_R26P/DIFFOUT_R26P		
E1	IO_6A_E1/DIFFIO_RX_R25P/DIFFOUT_R25P		
F1	IO_6A_F1/DQ4R/DIFFIO_RX_R25N/DIFFOUT_R25N		
G1	IO_6A_G1/DQ4R/DIFFIO_TX_R25P/DIFFIN_R25P		
H1	IO_6A_H1/DQ4R/DIFFIO_TX_R25N/DIFFIN_R25N		
J1	IO_6A_J1/DQ5R/DIFFIO_RX_R24N/DIFFOUT_R24N		
J2	IO_6A_J2/DQ5R/DIFFIO_RX_R24P/DIFFOUT_R24P		
J3	IO_6A_J3/DQ1R/DIFFIO_RX_R31N/DIFFOUT_R31N		
J4	IO_6A_J4/DQSN1R/DIFFIO_TX_R31N/DIFFIN_R31N		
J5	IO_6A_J5/DQS1R/DIFFIO_TX_R31P/DIFFIN_R31P		
K1	IO_6A_K1/DQS5R/DIFFIO_TX_R23P/DIFFIN_R23P		
K4	IO_6A_K4/DQ1R/DIFFIO_RX_R32N/DIFFOUT_R32N		
K5	IO_6A_K5/DQ1R/DIFFIO_RX_R32P/DIFFOUT_R32P		
L1	IO_6A_L1/DQSN5R/DIFFIO_TX_R23N/DIFFIN_R23N		
M1	IO_6A_M1/DQ6R/DIFFIO_RX_R22N/DIFFOUT_R22N		
M2	IO_6A_M2/DIFFIO_RX_R22P/DIFFOUT_R22P		
M3	IO_6A_M3/DQS3R/DIFFIO_TX_R27P/DIFFIN_R27P		
N1	IO_6A_N1/DQ7R/DIFFIO_RX_R20N/DIFFOUT_R20N		
N2	IO_6A_N2/DQ7R/DIFFIO_RX_R20P/DIFFOUT_R20P		
N3	IO_6A_N3/DQSN3R/DIFFIO_TX_R27N/DIFFIN_R27N		
N4	IO_6A_N4/DQ3R/DIFFIO_RX_R27N/DIFFOUT_R27N		
N5	IO_6A_N5/DIFFIO_RX_R27P/DIFFOUT_R27P		
N9	IO_6A_N9/DQ1R/DIFFIO_TX_R32N/DIFFIN_R32N		
P1	IO_6A_P1/DQSN7R/DIFFIO_TX_R19N/DIFFIN_R19N		
		IO_6A_P10/DIFFIO_TX_R28P/DIFFIN_R28P	P10
		IO_6A_P4/DIFFIO_RX_R23P/DIFFOUT_R23P	P4
		IO_6A_P7/DQSN4R/DIFFIO_TX_R26N/DIFFIN_R26N	P7
		IO_6A_P9/DQ3R/DIFFIO_TX_R28N/DIFFIN_R28N	P9
		IO_6A_R1/DIFFIO_RX_R18P/DIFFOUT_R18P	R1
		IO_6A_R10/DQSN6R/DIFFIO_TX_R22N/DIFFIN_R22N	R10
		IO_6A_R11/DQS6R/DIFFIO_TX_R22P/DIFFIN_R22P	R11
		IO_6A_R2/DQS7R/DIFFIO_TX_R19P/DIFFIN_R19P	R2
		IO_6A_R3/DQ5R/DIFFIO_RX_R23N/DIFFOUT_R23N	R3
		IO_6A_R4/DQ6R/DIFFIO_TX_R21P/DIFFIN_R21P	R4
		IO_6A_R5/DQ6R/DIFFIO_RX_R21N/DIFFOUT_R21N	R5
		IO_6A_R6/DIFFIO_RX_R21P/DIFFOUT_R21P	R6
		IO_6A_R7/DQ8R/DIFFIO_TX_R17P/DIFFIN_R17P	R7
		IO_6A_R8/DQS4R/DIFFIO_TX_R26P/DIFFIN_R26P	R8
		IO_6A_R9/DQ5R/DIFFIO_TX_R24N/DIFFIN_R24N	R9
		IO_6A_T1/DQ8R/DIFFIO_RX_R18N/DIFFOUT_R18N	T1
		IO_6A_T10/DIFFIO_TX_R24P/DIFFIN_R24P	T10
		IO_6A_T4/DQ6R/DIFFIO_TX_R21N/DIFFIN_R21N	T4
		IO_6A_T7/DQ8R/DIFFIO_TX_R17N/DIFFIN_R17N	T7
		IO_6A_U1/DQ8R/DIFFIO_RX_R17N/DIFFOUT_R17N	U1
		IO_6A_U10/DQSN8R/DIFFIO_TX_R18N/DIFFIN_R18N	U10
		IO_6A_U11/DQS8R/DIFFIO_TX_R18P/DIFFIN_R18P	U11
		IO_6A_U2/DIFFIO_RX_R17P/DIFFOUT_R17P	U2
		IO_6A_U3/DQ7R/DIFFIO_RX_R19N/DIFFOUT_R19N	U3
		IO_6A_U4/DIFFIO_RX_R19P/DIFFOUT_R19P	U4
		IO_6A_U9/DIFFIO_TX_R20P/DIFFIN_R20P	U9
		IO_6A_V9/DQ7R/DIFFIO_TX_R20N/DIFFIN_R20N	V9

ADC_1_SYNC_N
ADC_1_SYNC_P
ADC_2_SYNC_P
ADC_2_SYNC_N
Scrambler
Scrambler_2

DLL_SYNC_1
DLL_SYNC_2
SCS_N_ADC_2
SCS_N_ADC_1
CSB_N_TO_FPGA
SCLK
SDIO
CF3_2
CF2_2
CF1_2
CF0_2
CF3
CF2
CF1
CF0

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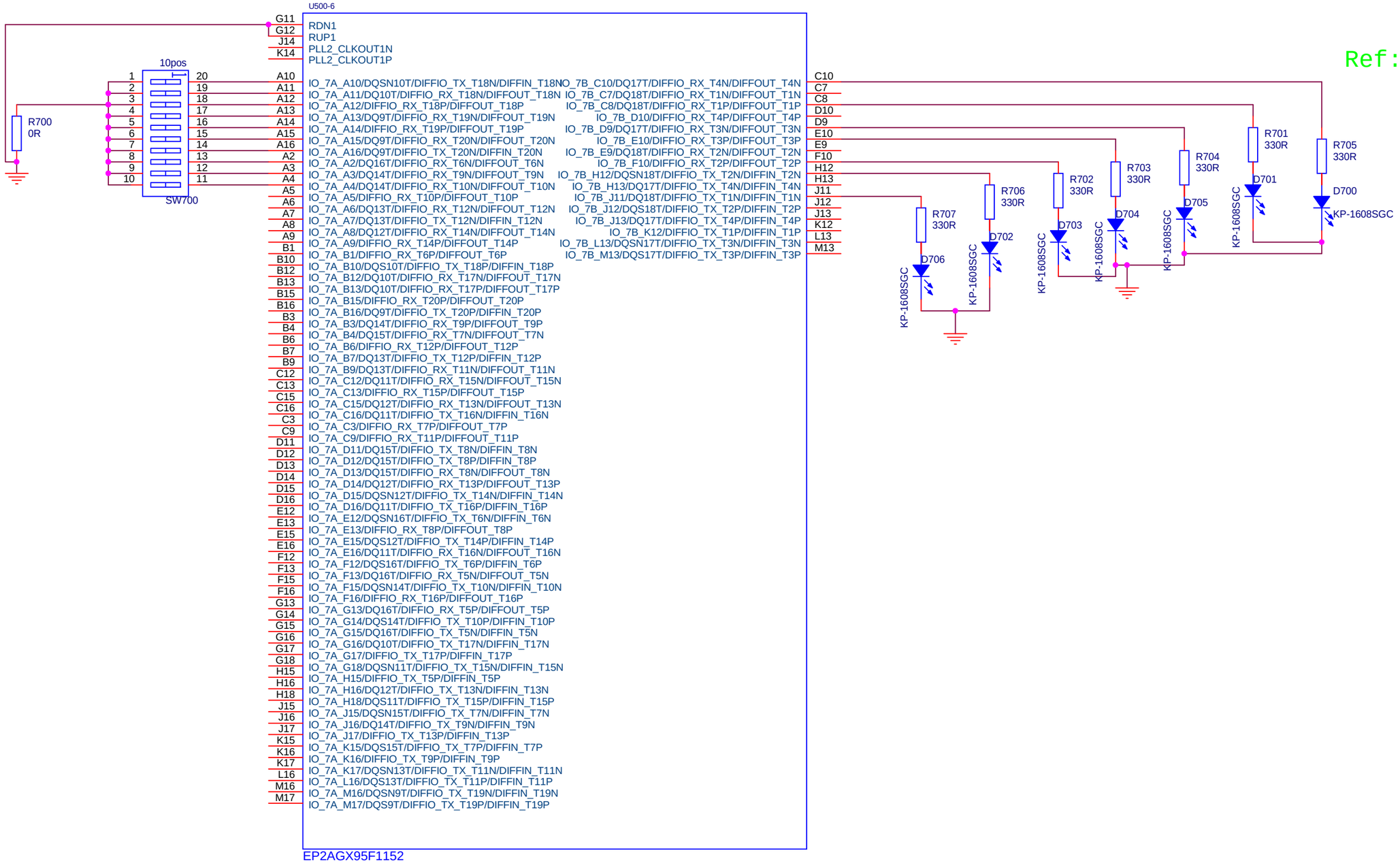

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1.8V_FPGA

R725
100R

RX725
NC

R726
10R

R727
100R

SW725
B3S-1000
SW726
B3S-1000
SW727
B3S-1000
SW728
B3S-1000

1.8V_FPGA

R728
100R

RX726
NC

R729
10R

R730
100R

U500-7

D26	RDN2
E25	RUP2
L21	PLL1_CLKOUT1N
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/DQS8T/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/DQS6T/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/DQS4T/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
D20	IO_8A_D20/DQ4T/DIFFIO_RX_T30N/DIFFOUT_T30N

IO_8A_D21/DIFFIO_RX_T30P/DIFFOUT_T30P	D21
IO_8A_D22/DQ1T/DIFFIO_RX_T35N/DIFFOUT_T35N	D22
IO_8A_D23/DIFFIO_RX_T31P/DIFFOUT_T31P	D23
IO_8A_D24/DQ3T/DIFFIO_TX_T32P/DIFFIN_T32P	D24
IO_8A_D25/DQS2T/DIFFIO_TX_T34P/DIFFIN_T34P	D25
IO_8A_D27/DIFFIO_RX_T34P/DIFFOUT_T34P	D27
IO_8A_D28/DQ1T/DIFFIO_RX_T36N/DIFFOUT_T36N	D28
IO_8A_D29/DIFFIO_RX_T36P/DIFFOUT_T36P	D29
IO_8A_E18/DQ6T/DIFFIO_RX_T26N/DIFFOUT_T26N	E18
IO_8A_E19/DIFFIO_RX_T26P/DIFFOUT_T26P	E19
IO_8A_E21/DQ2T/DIFFIO_RX_T33N/DIFFOUT_T33N	E21
IO_8A_E22/DIFFIO_RX_T35P/DIFFOUT_T35P	E22
IO_8A_E24/DQ3T/DIFFIO_RX_T32N/DIFFOUT_T32N	E24
IO_8A_F19/DQSN7T/DIFFIO_TX_T23N/DIFFIN_T23N	F19
IO_8A_F21/DQ2T/DIFFIO_RX_T33P/DIFFOUT_T33P	F21
IO_8A_F23/DQSN3T/DIFFIO_TX_T31N/DIFFIN_T31N	F23
IO_8A_G19/DQS7T/DIFFIO_TX_T23P/DIFFIN_T23P	G19
IO_8A_G20/DQ4T/DIFFIO_TX_T29N/DIFFIN_T29N	G20
IO_8A_G21/DIFFIO_TX_T29P/DIFFIN_T29P	G21
IO_8A_G22/DQSN1T/DIFFIO_TX_T35N/DIFFIN_T35N	G22
IO_8A_G23/DQS3T/DIFFIO_TX_T31P/DIFFIN_T31P	G23
IO_8A_H19/DQSN5T/DIFFIO_TX_T27N/DIFFIN_T27N	H19
IO_8A_H21/DQS1T/DIFFIO_TX_T35P/DIFFIN_T35P	H21
IO_8A_J19/DQS5T/DIFFIO_TX_T27P/DIFFIN_T27P	J19
IO_8A_J20/DQ6T/DIFFIO_TX_T25N/DIFFIN_T25N	J20
IO_8A_K20/DIFFIO_TX_T25P/DIFFIN_T25P	K20
IO_8A_M18/DQ8T/DIFFIO_TX_T21N/DIFFIN_T21N	M18
IO_8A_M20/DQ2T/DIFFIO_TX_T33N/DIFFIN_T33N	M20
IO_8A_N19/DIFFIO_TX_T21P/DIFFIN_T21P	N19
IO_8A_N20/DIFFIO_TX_T33P/DIFFIN_T33P	N20

J725

1	2
3	4
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9	10
11	12

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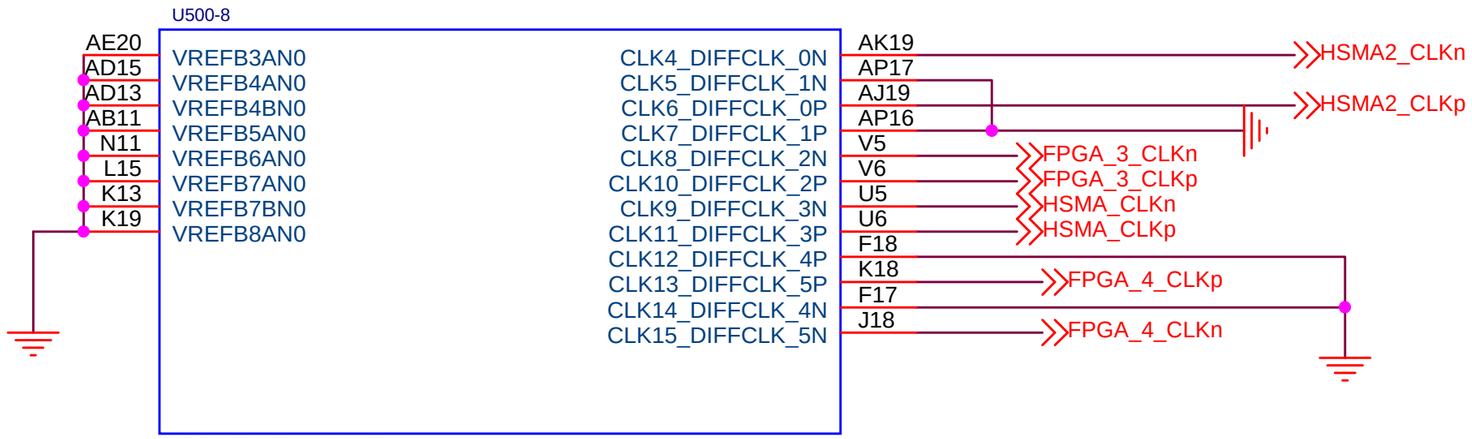

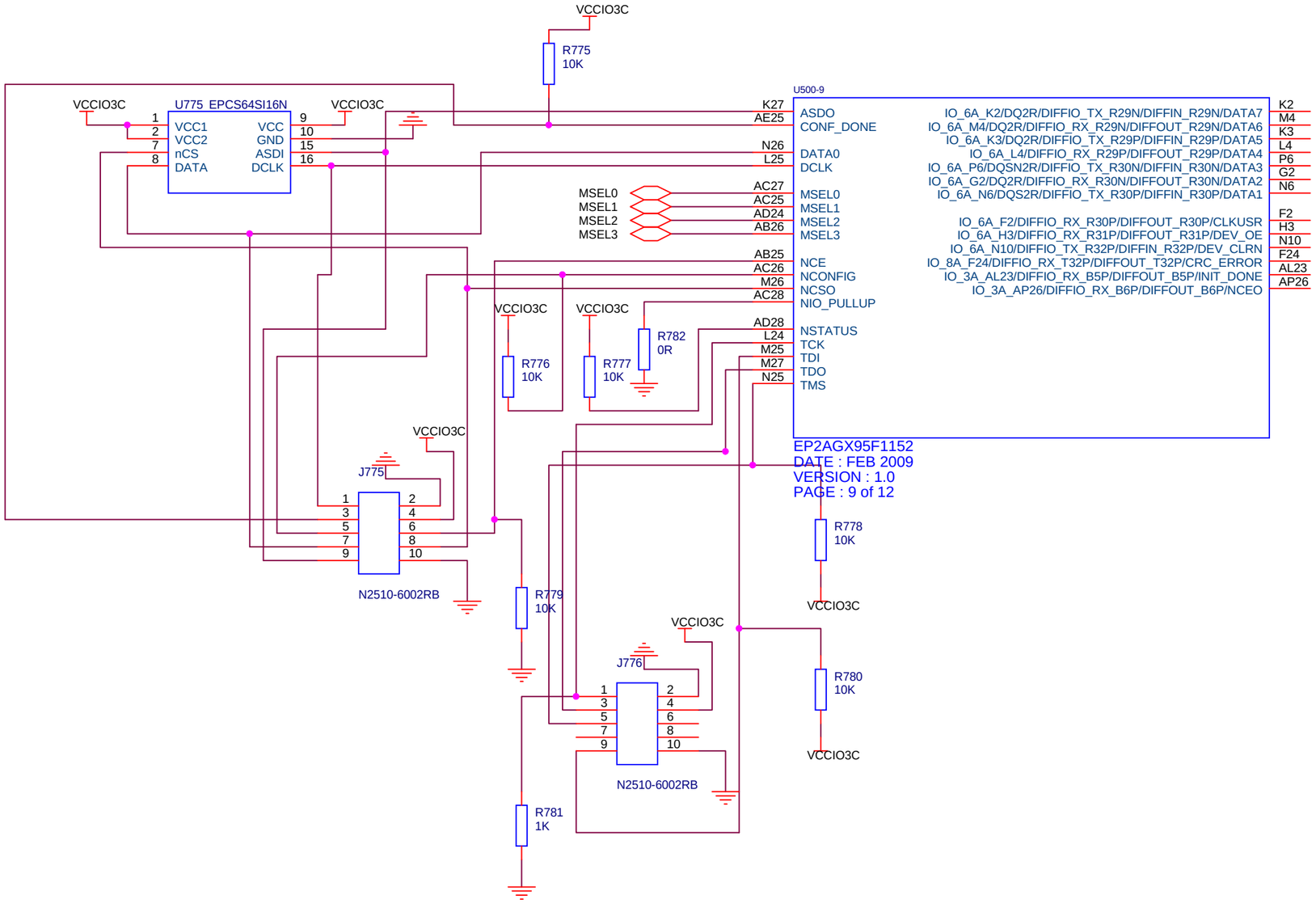

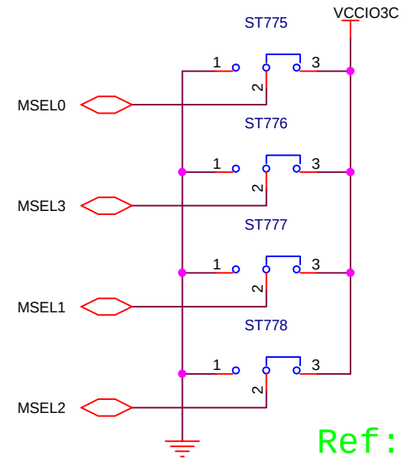

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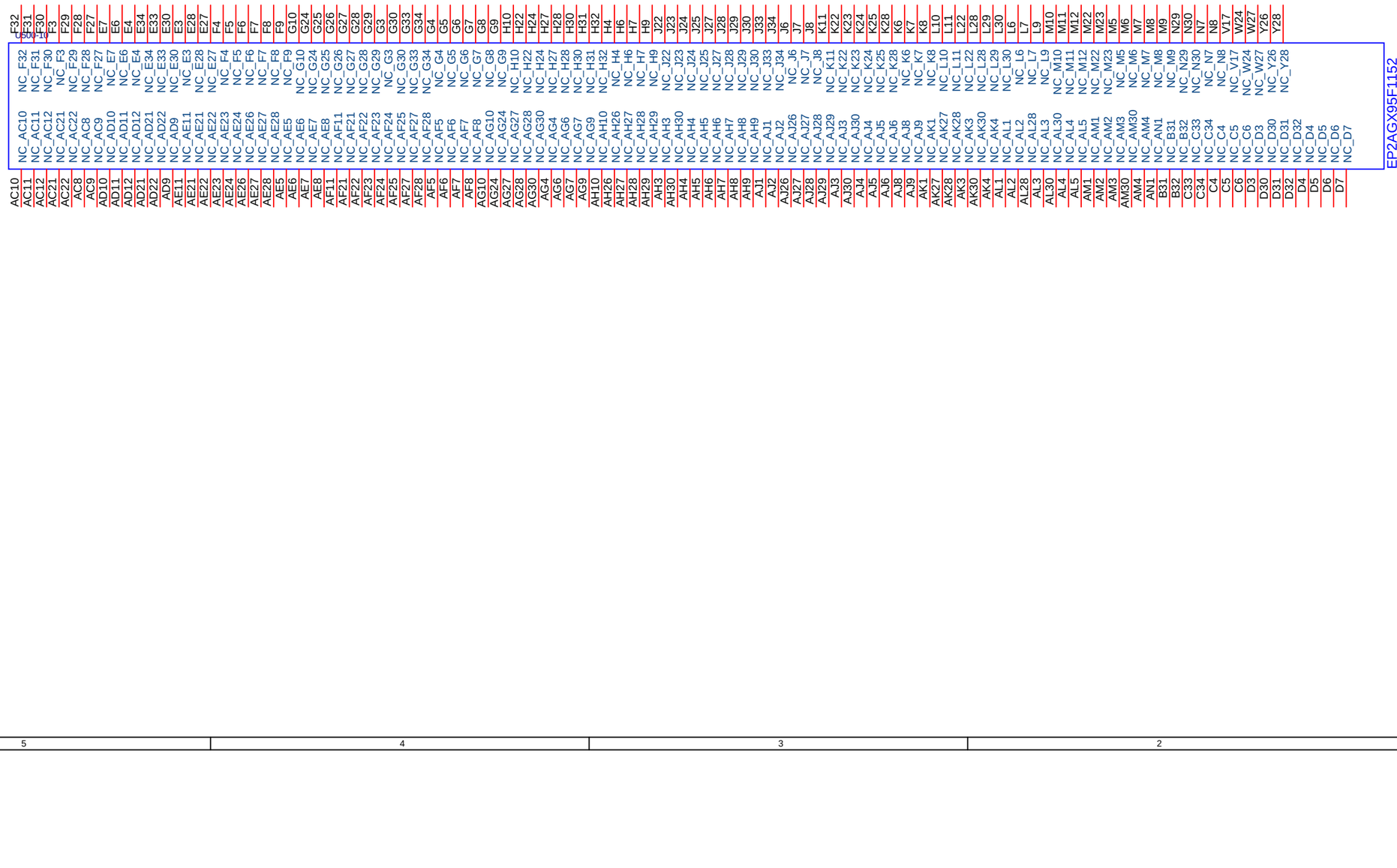

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U500-11

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	AN33	GXB_RX0P	
HSMA_RX2_n	N34	GXB_RX10N	
HSMA_RX2_p	N33	GXB_RX10P	
HSMA_RX3_n	L34	GXB_RX11N	
HSMA_RX3_p	L33	GXB_RX11P	
CMLNA1	AL34	GXB_RX1N	
CMLPA1	AL33	GXB_RX1P	
CMLPB1	AJ34	GXB_RX2N	
CMLNB1	AJ33	GXB_RX2P	
	AG34	GXB_RX3N	
	AG33	GXB_RX3P	
	AE34	GXB_RX4N	
	AE33	GXB_RX4P	
CMLNA1_2	AC34	GXB_RX5N	
CMLPA1_2	AC33	GXB_RX5P	
CMLPB1_2	AA34	GXB_RX6N	
CMLNB1_2	AA33	GXB_RX6P	
	W34	GXB_RX7N	
	W33	GXB_RX7P	
HSMA_RX0_n	U34	GXB_RX8N	
HSMA_RX0_p	U33	GXB_RX8P	
HSMA_RX1_n	R34	GXB_RX9N	
HSMA_RX1_p	R33	GXB_RX9P	
	AM32		
HSMA_TX0_n	AM31	GXB_TX0N	
HSMA_TX0_p	M32	GXB_TX0P	
	M31	GXB_TX10N	
	K32	GXB_TX10P	
	K31	GXB_TX11N	
	AK32	GXB_TX11P	
HSMA_TX1_n	AK31	GXB_TX1N	
HSMA_TX1_p	AH32	GXB_TX1P	
HSMA_TX2_n	AH31	GXB_TX2N	
HSMA_TX2_p	AF32	GXB_TX2P	
HSMA_TX3_n	AF31	GXB_TX3N	
HSMA_TX3_p	AD32	GXB_TX3P	
	AD31	GXB_TX4N	
	AB32	GXB_TX4P	
	AB31	GXB_TX5N	
	Y32	GXB_TX5P	
	Y31	GXB_TX6N	
	V32	GXB_TX6P	
	V31	GXB_TX7N	
	T32	GXB_TX7P	
	T31	GXB_TX8N	
	P32	GXB_TX8P	
	P31	GXB_TX9N	
		GXB_TX9P	

REFCLK0N	AE30	FPGA_1_CLKn
REFCLK0P	AE29	FPGA_1_CLKp
REFCLK1N	AA30	FPGA_2_CLKn
REFCLK1P	AA29	FPGA_2_CLKp
REFCLK2N	U30	
REFCLK2P	U29	
REFCLK4N	AC30	FPGA_REFn
REFCLK4P	AC29	FPGA_REFp
REFCLK5N	W30	
REFCLK5P	W29	
REFCLK6N	R30	
REFCLK6P	R29	
RREF0	AP31	
RREF1	A29	

R825 10K

R826 2K

R827 2K

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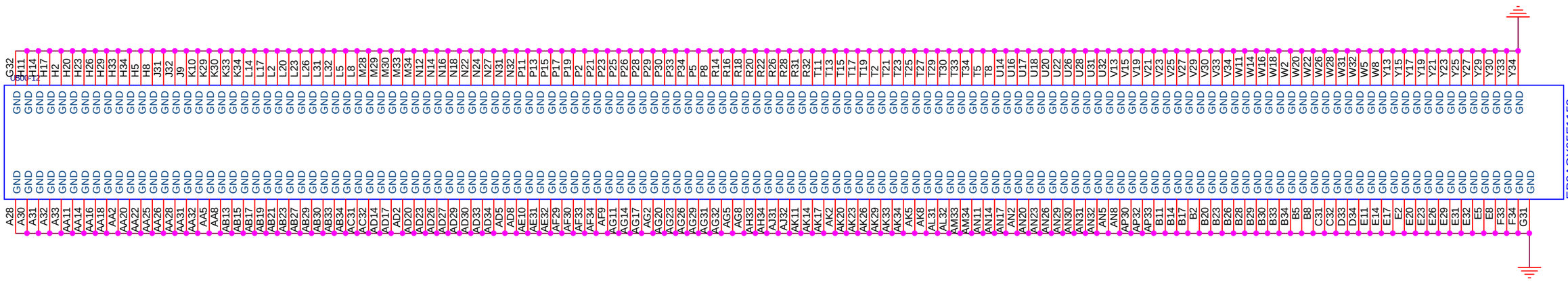
Ref: x850 a x875



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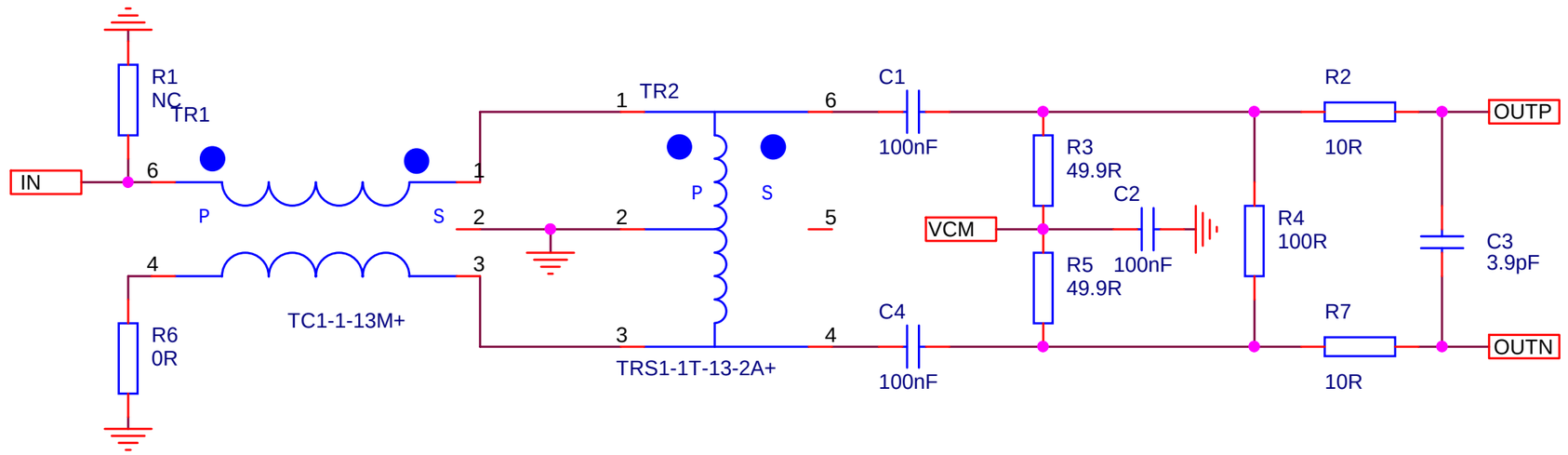
17 - Ref x011 a x020
18 - Ref x021 a x030
19 - Ref x031 a x040



16 - Ref x001 a x010
17 - Ref x011 a x020
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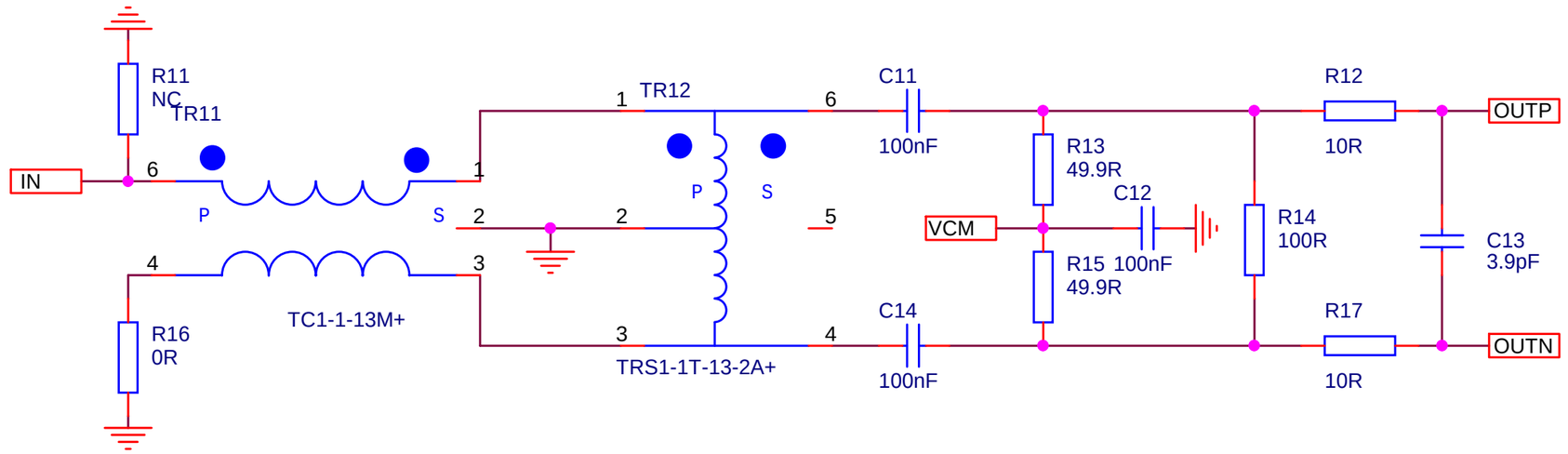
19 - Ref x031 a x040



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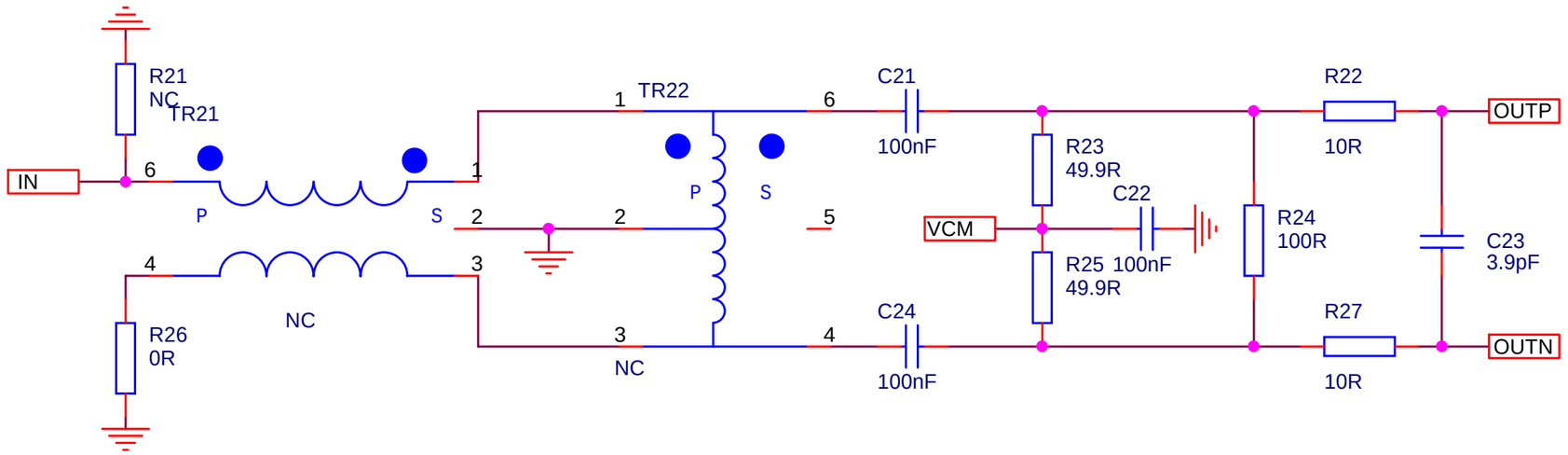

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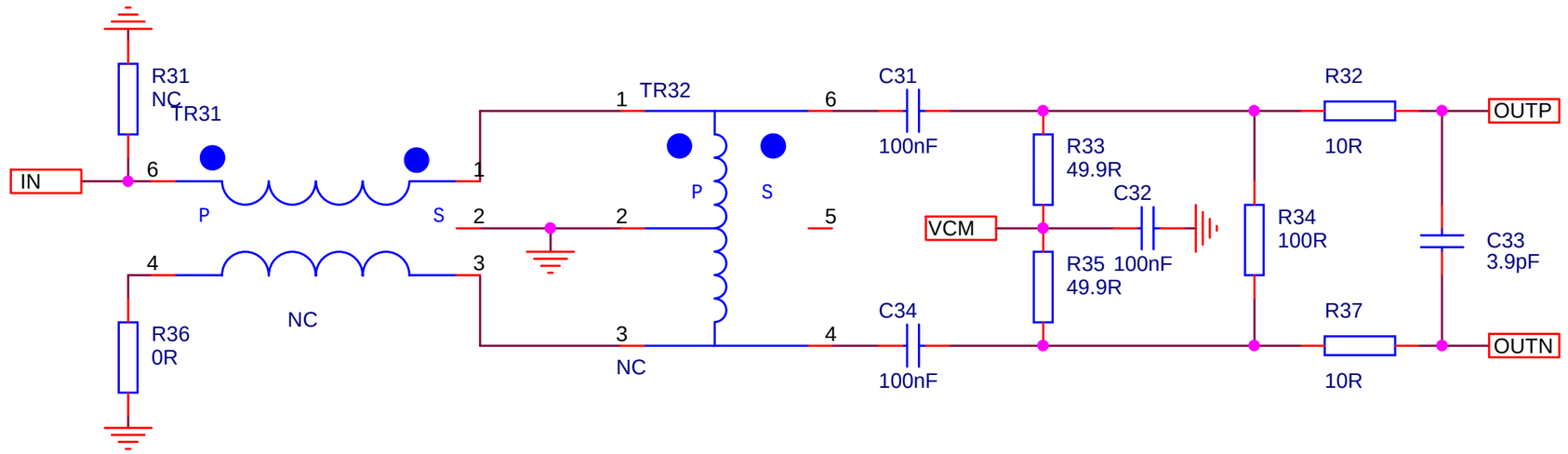

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Item Number	Part Number	Quantity	Part Reference	PCB Footprint	Value	Description	Manufacturer	Manufacturer Part Number	Observation
28	25ECNDA2GK225	3	C564 C571 C577	c0402_local	2.2uF	Cond X5R 0402 10% 6.3V 2.2uF			
10	25ECNDA2GL105AX	14	C117 C118 C132 C133 C146 C147 C158 C159 C424 C434 C442 C450 C458 C466	C0402	1uF	Cond X5R 0402 10% 10V 1µF	Ex:AVX	Ex:04022D105KAT2A	
31	25ECNDA2GL105AX	6	C5038 C5039 C5040 C5041 C5042 C5043	c0402_local	1uF	Cond X5R 0402 10% 10V 1µF	Ex:AVX	Ex:04022D105KAT2A	
17	25ECNDA2GL224MA	1	C329	C0402	220nF	Cond X5R 0402 10% 10V 220nF	Murata	GRM155R61A224KE19	
32	25ECNDA2GL224MA	2	C5048 C5049	c0402_local	220nF	Cond X5R 0402 10% 10V 220nF	Murata	GRM155R61A224KE19	
23	25ECNDA3GN474	7	C500 C514 C522 C531 C537 C541 C565	C0603	470nF	Cond X5R 0603 10% 16V 470nF	Ex:Kemet	Ex:C0603X474K4RAC	
26	25ECNDA3HK106	12	C507 C515 C543 C551 C570 C5051 C5052 C5053 C5054 C5055 C5056 C5057	C0603	10uF	Cond X5R 0603 20% 6.3V 10uF			
5	25ECNDB2GN104	96	C1 C2 C4 C11 C12 C14 C21 C22 C24 C31 C32 C34 C101 C102 C104 C105 C107 C108 C110 C111 C121 C123 C124 C125 C126 C137 C138 C142 C143 C148 C151 C152 C153 C160 C161 C170 C171 C172 C173 C175 C176 C177 C178 C179 C180 C181 C182 C183 C184 C185 C186 C187 C189 C190 C198 C202 C203 C204 C206 C207 C208 C209 C211 C212 C214 C215 C216 C218 C220 C222 C301 C303 C305 C308 C310 C312 C314 C315 C316 C317 C325 C331 C333 C339 C340 C342 C344 C346 C348 C349 C350 C423 C426 C650 C652 C653	C0402	100nF	Cond X7R 0402 10% 16V 100nF			
24	25ECNDB2GN104	70	C501 C504 C505 C508 C509 C510 C511 C513 C516 C517 C518 C519 C523 C524 C527 C532 C533 C534 C538 C539 C540 C544 C545 C546 C547 C548 C549 C552 C553 C554 C555 C556 C557 C558 C559 C560 C561 C562 C563 C566 C567 C568 C569 C572 C573 C574 C575 C576 C578 C579 C580 C581 C582 C583 C584 C585 C586 C5044 C5045 C5046 C5047 C5050 C5080 C5082 C5083 C5084 C5085 C5086 C5087 C5088	c0402_local	100nF	Cond X7R 0402 10% 16V 100nF			
15	25ECNDB2GN183	1	C322	C0402	18nF	Cond X7R 0402 10% 16V 18nF	Multicomp	Ex: MCCA000044	
20	25ECNDB2GN473	9	C432 C437 C441 C448 C454 C457 C464 C468 C471	C0402	47nF	Cond X7R 0402 10% 16V 47nF			
9	25ECNDB2GQ103MA	61	C106 C112 C113 C114 C115 C127 C128 C130 C131 C139 C141 C144 C145 C149 C154 C155 C156 C164 C165 C166 C167 C195 C196 C197 C200 C217 C219 C221 C223 C300 C302 C304 C306 C307 C309 C311 C313 C318 C319 C324 C327 C328 C330 C332 C334 C335 C336 C337 C338 C341 C343 C345 C347 C351 C352 C429 C438 C446 C453 C462 C467	C0402	10nF	Cond X7R 0402 10% 25V 10nF	Murata	GRM155R71E103KA01	
25	25ECNDB2GQ103MA	6	C503 C521 C526 C529 C530 C535	c0402_local	10nF	Cond X7R 0402 10% 25V 10nF	Murata	GRM155R71E103KA01	
30	25ECNDB2GQ223MA	36	C5001 C5002 C5003 C5004 C5005 C5006 C5007 C5008 C5009 C5010 C5011 C5012 C5013 C5014 C5015 C5016 C5017 C5018 C5019 C5020 C5021 C5022 C5023 C5024 C5025 C5026 C5027 C5028 C5029 C5030 C5031 C5032 C5033 C5034 C5035 C5036	c0402_local	22nF	Cond X7R 0402 10% 25V 22nF	Murata	GRM155R71E223KA61	
21	25ECNDB2GS272	3	C439 C455 C469	C0402	2.7nF	Cond X7R 0402 10% 50V 2.7nF			
22	25ECNDD2FS151	3	C440 C456 C470	C0402	150pF	Cond COG 0402 5% 50V 150pF			
14	25ECNDD2FS152	1	C321	C0402	1.5nF	Cond COG 0402 5% 50V 1.5nF	Ex:Kemet	Ex: C0402C152J5GACTU	
13	25ECNDD2FS270AX	4	C191 C192 C210 C213	C0402	27pF	Cond COG 0402 5% 50V 27pF	AVX	04025A270JAT2A	
16	25ECNDD2FS681MA	1	C326	C0402	680pF	Cond COG 0402 5% 50V 680pF	Murata	GRM1555C1H681JA01	
6	25ECNDD2PS39A	4	C3 C13 C23 C33	C0402	3.9pF	Cond COG 0402 +/-0.1 50V 3.9pF			
11	25ECNDJAGK475	6	C120 C135 C433 C449 C452 C465	cap_320x160x160_a	4.7uF	Cond Tantal A 10% 6.3V 4.7µF	Ex:AVX	Ex:TAJA475K006R	
19	25ECNDJAGL226	10	C430 C431 C444 C447 C459 C463 C512 C520 C542 C550	cap_320x160x160_a	22uF	Cond Tantal A 10% 10V 22µF	Ex:AVX	Ex:TAJA226K010R	
7	25ECNDJAGN106	3	C100 C188 C425	cap_320x160x160_a	10uF	Cond Tantal A 10% 16V 10µF	Ex:AVX	Ex:TAJA106K016R	
8	25ECNDJAGP475	4	C103 C119 C134 C451	cap_320x160x160_a	4.7uF	Cond Tantal A 10% 20V 4.7µF	Ex:AVX	Ex:TAJA475K020R	
18	25ECNDJBHL107	10	C427 C428 C443 C445 C460 C461 C502 C506 C525 C528	cap_350x280x190_b	100uF	Cond Tantal B 20% 10V 100µF	Ex:AVX	Ex:TAJB107M010R	
29	25ECNDJCGL106	1	C651	cap_600x320x260_c	10uF	Cond Tantal C 10% 10V 10µF	Ex:AVX	Ex:TAJC106K010R	
27	25ECNDJEGK337	1	C536	cap_730x430x410_e	330uF	Cond Tantal E 10% 6.3V 330µF	Ex:AVX	Ex:TAJE337K006R	
41	25ECNTA1K0002_2	5	J402 J403 J404 J405 J406	cav_254_bar2_md	closed	Conn bar cav MD 2.54mm 2 pins h=7mm ***closed***			
91	25ECNTA1K0003_2	11	ST101 ST103 ST500 ST501 ST502 ST503 ST504 ST775 ST776 ST777 ST778	cav_254_bar3_md	***	Conn bar cav MD 2.54mm 3 pins h=7mm			
40	25ECNTA1K0018	2	J102 J103	con_bar_254_2x5_md	BAR-2.54-2x5-MD	Conn bar MD 2.54mm 2x5 pins h=7mm			
44	25ECNTA1K0019	1	J725	con_bar_254_2x6_md	BAR-2.54-2x6-MD	Conn bar MD 2.54mm 2x6 pins h=7mm			
89	25ECNTC300001RL_NC	8	RX101 RX103 RX104 RX106 RX108 RX109 RX725 RX726	con_coax_sma_fd	NC	***NOT CONNECTED*** Conn coax FD SMA	RadiaII	R125426000	
90	25ECNTC700001JN_NC	7	RX105 RX110 RX111 RX112 RX113 RX300 RX301	con_coax_sma_bdc_142_0701_851_2	NC	***NOT CONNECTED*** Conn coax SMA F BdC	Johnson	142-0701-851	
88	25ECNTC700004PA	3	RX100 RX102 RX107	con_coax_sma_bdc_142_0701_851_2	72970	Conn coax SMA F BdC Cl 2mm	Pomona	72970	
45	25ECNTG1K00023M	2	J775 J776	con_he10bp_2x5_md	N2510-6002RB	Conn HE10 MD 2.54 10 pins bas profil	3M	N2510-6002RB	
38	25ECNTH500001CF	2	J100 J401	con_jack_alim_dc10	DC-10A	Conn jack Hor dia 2.1mm	Cliff	DC-10A	BULLE02
94	25ECNTM000001KN	9	TP100 TP101 TP102 TP103 TP300 TP301 TP302 TP406 TP407	tp_boucle_d100	TBD	Conn TP Boucle d:1mm noir	Keystone	5001	
39	25ECNTN5D0002WE	1	J101	con_usbbmini_fc_24861	USBB_MINI_65100516121	Conn Mini USB Hor Femelle 0.8mm 5 pins CMS Type B	Wurth Electronic	65100516121	
43	25ECNTP1B0006SA_NC	1	J650	con_samtec_asp_122953_01	NC	*** NOT CONNECTED*** Conn B2B MD 0.5mm 160 pins (serie QSH-090)	samtec	ASP-122953-01	
42	25ECNTP3B0006SA_NC	1	J626	con_samtec_qsh_060_01_x_d_a	NC	***NOT CONNECTED*** Conn B2B FD 0.5mm 120 pins	Samtec	QSH-060-01-F-D-A	
36	25EDIOAZ00001NX	2	D301 D302	sod80c	PMLL4448	Dio sig sod80c 0.5W	NXP	PMLL4448	
35	25EDIOC500001AO	2	D103 D104	sot323_sc70_3	HSMS-281C	Dio schot sot323 20V 1A Avago:HSMS-281C	Avago	HSMS-281C	
33	25EDIOCZ00011TC	6	D100 D102 D405 D406 D407 D408	do214ac_sma	SK26A	Dio schot do214ac 60V 2A TSC:SK26A	TSC	SK26A	
105	25EICSHB00002AL	1	U106	tssop8l	AT93C56A-10TU-2.7	IC mem SO8 EEPROM 2K ATMEL:AT93C56A-10TU-2.7	ATMEL	AT93C56A-10TU-2.7	
114	25EICSHB00003RA	1	U775	so16_sot162_1	EPCS64SI16N	IC config device SO16 Altera:EPCS64	Altera	EPCS64SI16N	
107	25EICSJD00002NX	2	U108 U302	tssop20_sot360_1	GTL2003PW	IC trans TSSOP20 NXP:GTL2003PW	NXP	GTL2003PW	
103	25EICSKZ00002FD	2	U101 U102	SC70_5	NC7SVU04P5X	IC intrf inverter sc70-5 Fairchild:NC7SVU04P5X	Fairchild	NC7SVU04P5X	
106	25EICSLF00001FI	1	U107	lqfp48_sot313_2	FT2232D	IC drvr LQFP48 USB UART/FIFO	FTDI	FT2232D	
109	25EICSZG00001ME	1	U301	hvqfn24_050_400x400	SY89474U	IC multiplexeur 2:1 LVDS QFN24 Micrel:SY89474U	Micrel Inc	SY89474UMG	
113	25EICSZH00001RA	1	U500	fbga1152_100_370x370	EP2AGX95xF35CxN	IC Arria II GX FPGA 95K 1152FBGA	Altera	EP2AGX95xF35CxN	
108	25EICSZZ00002AD_NC	1	U300	lfcsp64_050_900x900	NC	*** NOT CONNECTED*** IC clk_generator 2.0GHz 64LFCSP Analog Devices:AD9520_3BCPZ	Analog Devices	AD9520-3BCPZ	
92	25EINTA000001ON	7	SW100 SW101 SW300 SW725 SW726 SW727 SW728	sw_b3s_1000	B3S-1000	BP Omron:b3s-1000	Omron	B3S-1000	
37	25EINTD000001EO	5	J43 J44 J300 J301 J302	sw_1k2	SW_1K2	commut glis	EAO	09-03290-01	
93	25EINTF000003MP	1	SW700	sw_dip310	10pos	inter-dil 10pos Multicomp: MCDS10	Multicomp	MCDS10	
2	25EINTM000002SA	16			2.54mm	cav bar MD 2.54 1 pos Samtec : SNT-100-BK-G	Samtec	SNT-100-BK-G	
34	25EOPTAC50003KH	11	D101 D105 D300 D404 D700 D701 D702 D703 D704 D705 D706	led_160x080_kp	KP-1608SGC	LED Vert 0603 super bright	Kingbright	KP-1608SGC	
112	25EREGB0F0002TI	2	U405 U408	son10_050_300x300	TPS74701DRC	regu aj LDO 0.8-3.6V 500mA son10	Texas Instrument	TPS74701DRCR	
102	25EREGB0H0004AD	5	U100 U100BIS U103 U103BIS U406	so8_ep	ADP1708ARDZ-R7	regu aj 0.8-5V 1A so8_ep	Analog Devices	ADP1708ARDZ-R7	BULLE01
110	25EREGB0J0001TI	1	U402	son10_050_300x300	TPS74801DRC	regu aj LDO 0.8-3.6V 1.5A son10	Texas Instrument	TPS74801DRCR	
111	25EREGB0M0001TI	3	U404 U407 U409	vqfn34_050_700x350	TPS54617RUVR	regu aj Buck 0.9-3.3V 6A vqfn34	Texas Instrument	TPS54617RUVR	
55	25ERESA2D000B	51	R6 R16 R26 R36 R108 R113 R120 R121 R123 R129 R130 R131 R148 R152 R165 R174 R176 R181 R184 R186 R189 R190 R191 R192 R193 R194 R195 R196 R197 R198 R199 R200 R201 R202 R205 R206 R207 R208 R301 R308 R311 R312 R313 R315 R316 R328 R329 R626 R627 R650 R782	R0402	0R	Res 0402 1% 0.063W 0ohms			
54	25ERESA2D1000	18	R4 R14 R24 R34 R111 R151 R245 R246 R303 R321 R331 R334 R337 R339 R725 R727 R728 R730	R0402	100R	Res 0402 1% 0.063W 100ohms			
56	25ERESA2D1001	6	R100 R103 R104 R106 R306 R420	R0402	1K	Res 0402 1% 0.063W 1kOhms			
63	25ERESA2D1002	6	R159 R164 R177 R327 R330 R825	R0402	10K	Res 0402 1% 0.063W 10kOhms			
60	25ERESA2D1004	1	R154	R0402	1M	Res 0402 1% 0.063W 1Mohms			
52	25ERESA2D100A	15	R2 R7 R12 R17 R22 R27 R32 R37 R333 R338 R411 R425 R437 R726 R729	R0402	10R	Res 0402 1% 0.063W 10ohms			
74	25ERESA2D1200	1	R325	R0402	120R	Res 0402 1% 0.063W 120ohms			
72	25ERESA2D1500	1	R317	R0402	150R	Res 0402 1% 0.063W 150ohms			
59	25ERESA2D2001	6	R117 R124 R135 R140 R826 R827	R0402	2K	Res 0402 1% 0.063W 2kOhms			
69	25ERESA2D2200	4	R304 R305 R323 R324	R0402	220R	Res 0402 1% 0.063W 220ohms			
65	25ERESA2D2201	1	R173	R0402	2K2	Res 0402 1% 0.063W 2.2kOhms			
66	25ERESA2D2203	2	R178 R335	R0402	220K	Res 0402 1% 0.063W 220kOhms			
70	25ERESA2D2400	1	R309	R0402	240R	Res 0402 1% 0.063W 240ohms			
61	25ERESA2D270A	2	R156 R157	R0402	27R	Res 0402 1% 0.063W 27ohms			
58	25ERESA2D3300	10	R102 R209 R409 R701 R702 R703 R704 R705 R706 R707	R0402	330R	Res 0402 1% 0.063W 330ohms			
73	25ERESA2D4121	1	R319	R0402	4K12	Res 0402 1% 0.063W 4.12kOhms			
67	25ERESA2D4700	2	R180 R310	R0402	470R	Res 0402 1% 0.063W 470ohms			
64	25ERESA2D4701	8	R166 R167 R168 R169 R170 R171 R172 R302	R0402	4K7	Res 0402 1% 0.063W 4.7kOhms			
53	25ERESA2D499A	12	R3 R5 R13 R15 R23 R25 R33 R35 R125 R126 R141 R179	R0402	49.9R	Res 0402 1% 0.063W 49.9ohms			
71	25ERESA2D5101	1	R314	R0402	5K1	Res 0402 1% 0.063W 5.1kOhms			
57	25ERESA2D7870	2	R101 R105	R0402	787R	Res 0402 1% 0.063W 787ohms			
75	25ERESA3D000B	14	R406 R407 R415 R421 R422 R429 R433 R434 R440 R441 R504 R505 R651 R700	r0603	0R	Res 0603 1% 0.1W 0ohms			
87	25ERESA3D1001	1	R781	r0603	1K	Res 0603 1% 0.1W 1kOhms			
79	25ERESA3D1002	12	R414 R423 R428 R432 R436 R444 R775 R776 R777 R778 R779 R780	r0603	10K	Res 0603 1% 0.1W 10kOhms			
62	25ERESA3D1501	2	R158 R435	r0603	1K5	Res 0603 1% 0.1W 1.5kOhms			
85	25ERESA3D1691	1	R426	r0603	1K69	Res 0603 1% 0.1W 1.69kOhms			
76	25ERESA3D2101	1	R410	r0603	2K1	Res 0603 1% 0.1W 2.1kOhms			
77	25ERESA3D2401	1	R412	r0603	2K4	Res 0603 1% 0.1W 2.4kOhms			
80	25ERESA3D2742	3	R416 R430 R442	r0603	27K4	Res 0603 1% 0.1W 27.4kOhms			
83	25ERESA3D3091	1	R419	r0603	3K09	Res 0603 1% 0.1W 3.09kOhms			
84	25ERESA3D3571	1	R424	r0603	3K57	Res 0603 1% 0.1W 3.57kOhms			

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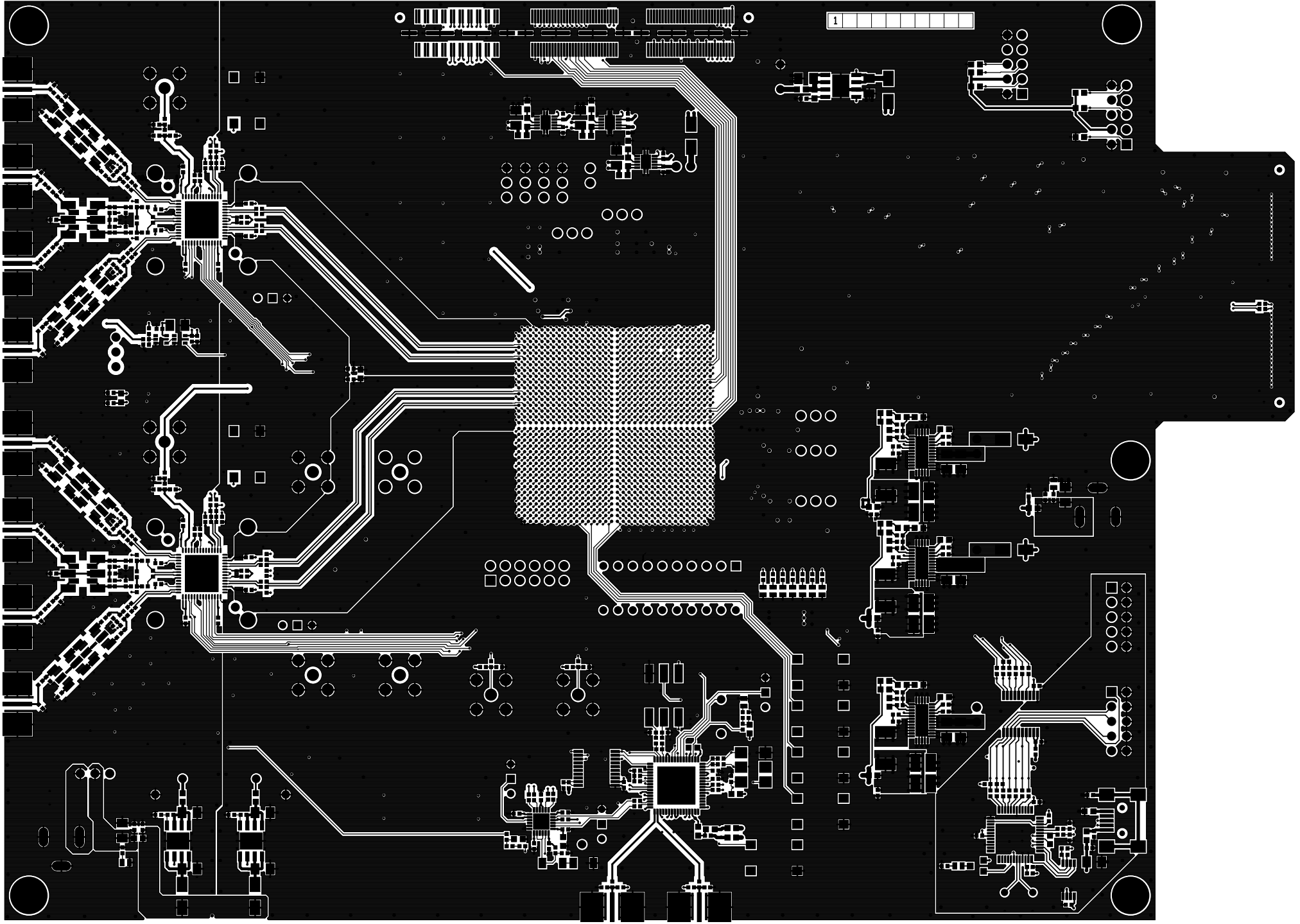
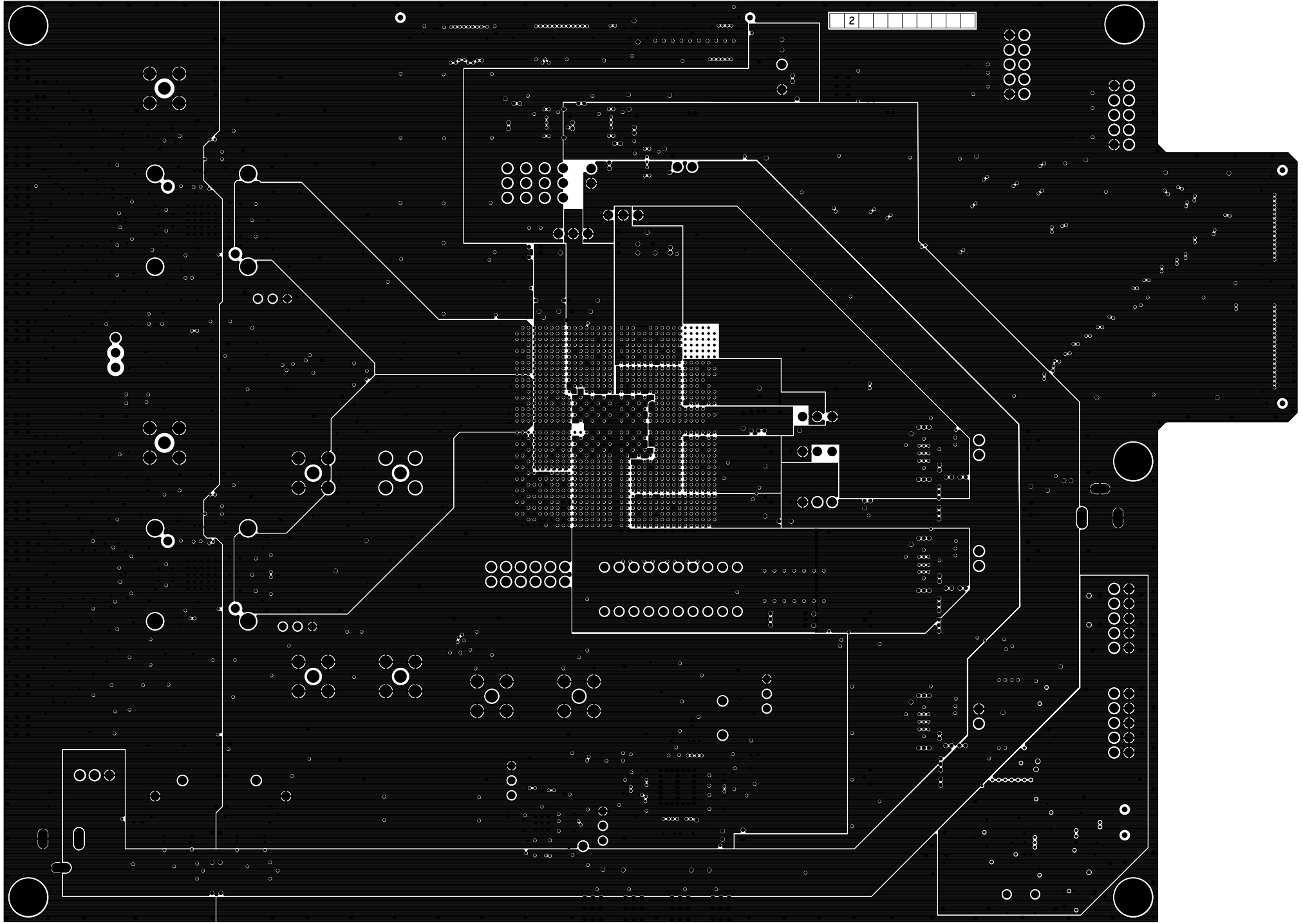
86	25ERESA3D4021	1	R438	r0603	4K02	Res 0603 1% 0.1W 4.02kOhms			
78	25ERESA3D4991	3	R413 R427 R439	r0603	4k99	Res 0603 1% 0.1W 4.99kOhms			
82	25ERESA3D5491	1	R418	r0603	5K49	Res 0603 1% 0.1W 5.49kOhms			
81	25ERESA3D5900	3	R417 R431 R443	r0603	590R	Res 0603 1% 0.1W 590ohms			
50	25ETRAF100004NX	1	Q100	sot23	BSH205	Tra MOSP sot23 12V 0.75A	NXP	BSH205	
46	25ETRFB00_l0603_NC	1	L100	l0603	NC	***NOT CONNECTED*** filtre ferrite 0603			BULLE02
47	25ETRFB000004MA	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	l0603	BLM18SG121TN1	filtre ferrite 0603 120R 25% 3A	Murata	BLM18SG121TN1	
48	25ETRFB000007VY	3	L404 L407 L408	l_ihlm2525	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+	MiniCircuit	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+	MiniCircuit	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+	MiniCircuit	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+	MiniCircuit	TRS1-1T-13-2A+	
115	25EXTAACD0001MX	1	Y100	xtal_hc49s	6MHz	Quartz HC49/S 6MHz	Manudax	M9S060A	
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 R182 R183 R185 R187 R188 R203 R204 R210 R211 R212 R213	R0402	NC	Res 0402 ***NOT CONNECTED***			
68	pnsx_r0603_nc	8	R300 R307 R318 R320 R322 R326 R332 R336	r0603	NC	Res 0603 ***NOT CONNECTED***			
3	pnsx_rondelle_eventail_acier_M3	5			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			

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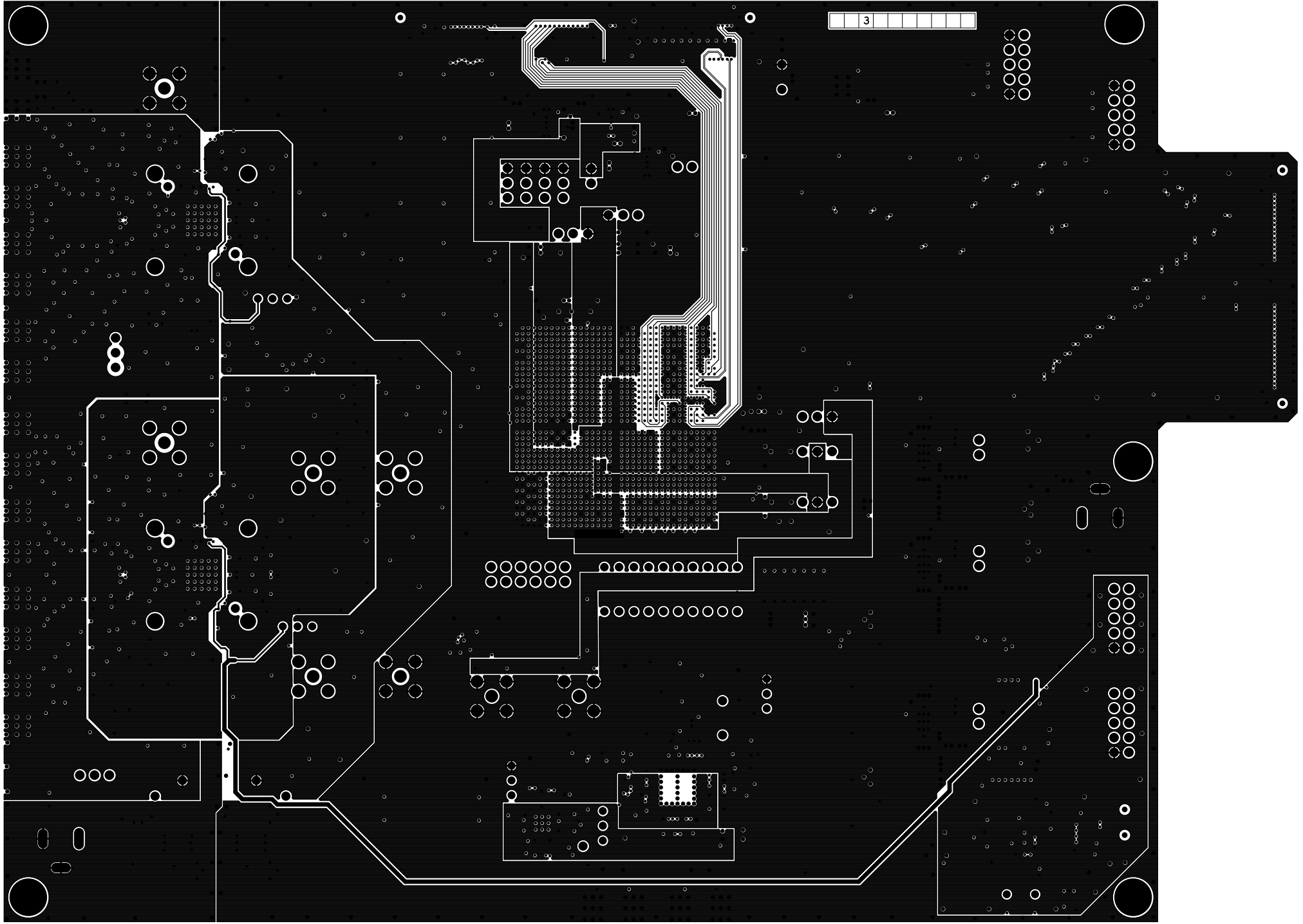
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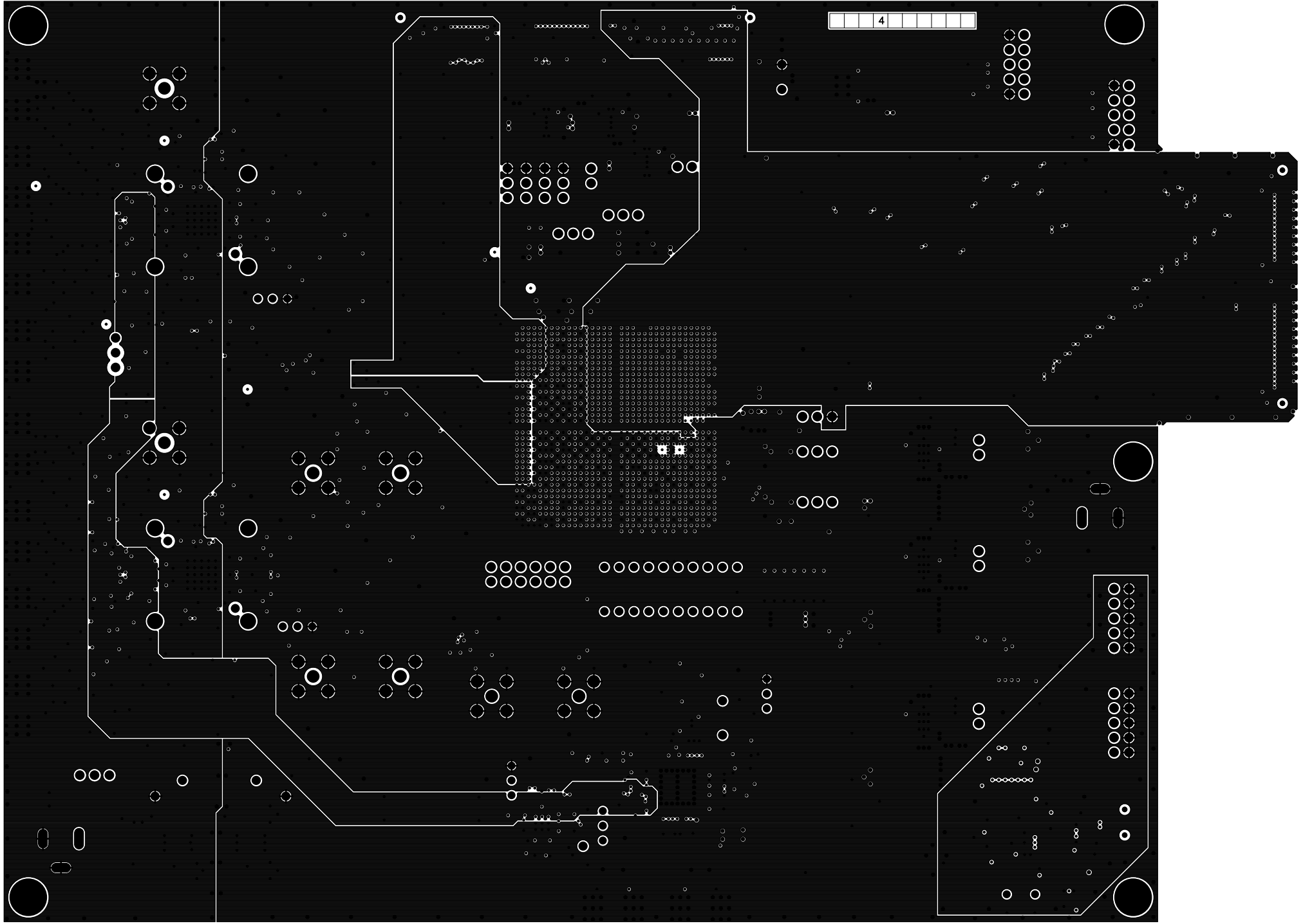
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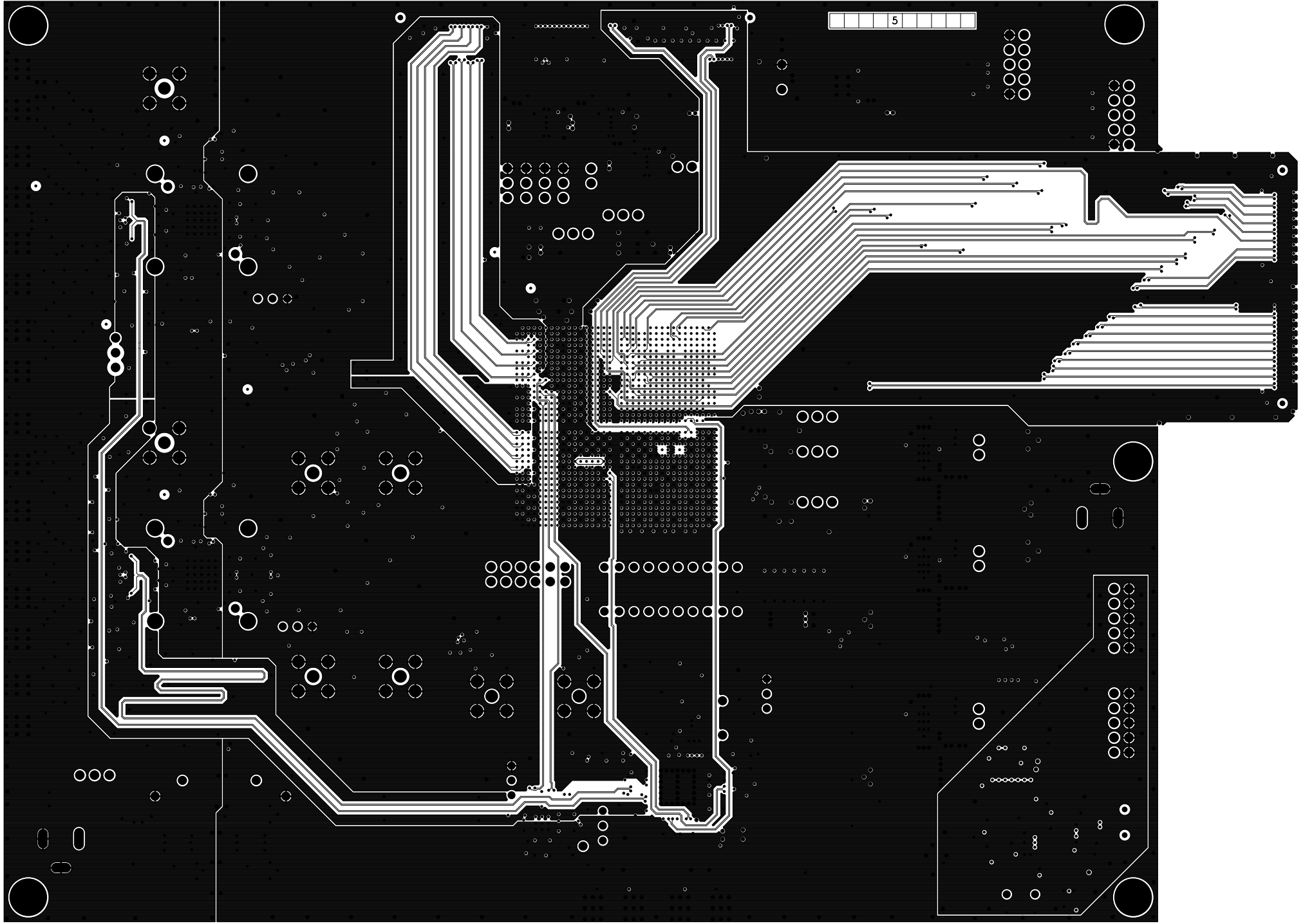
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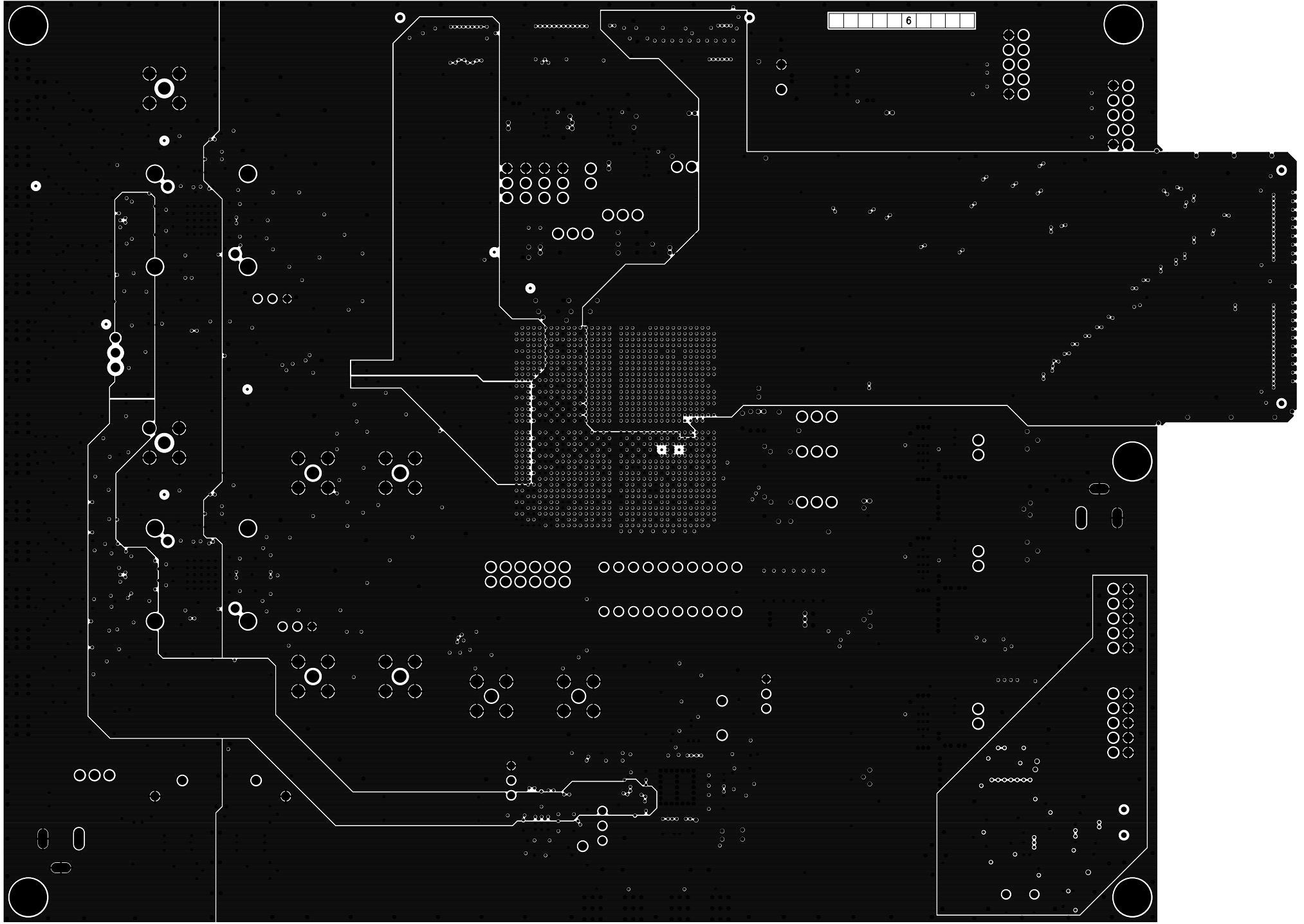
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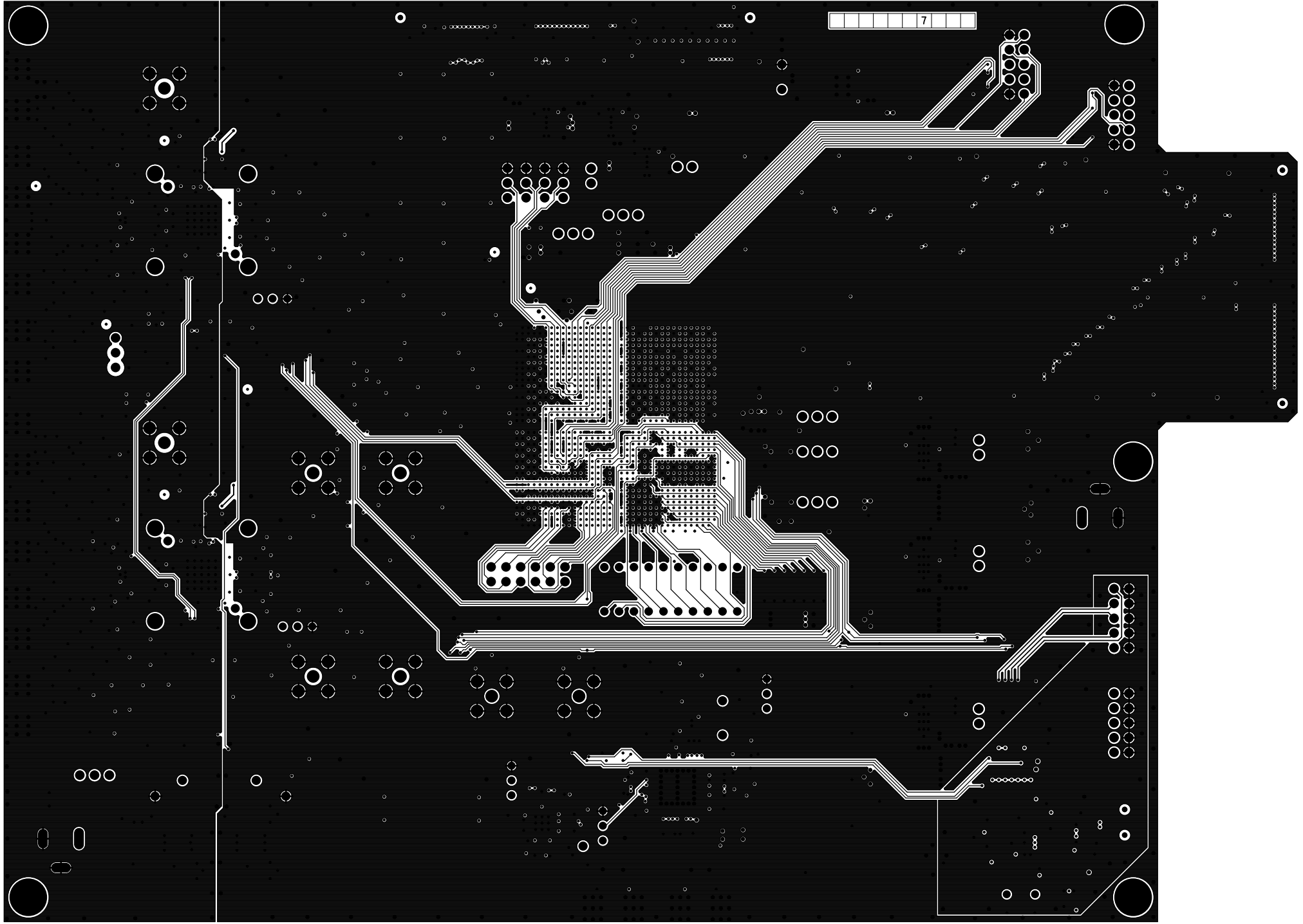
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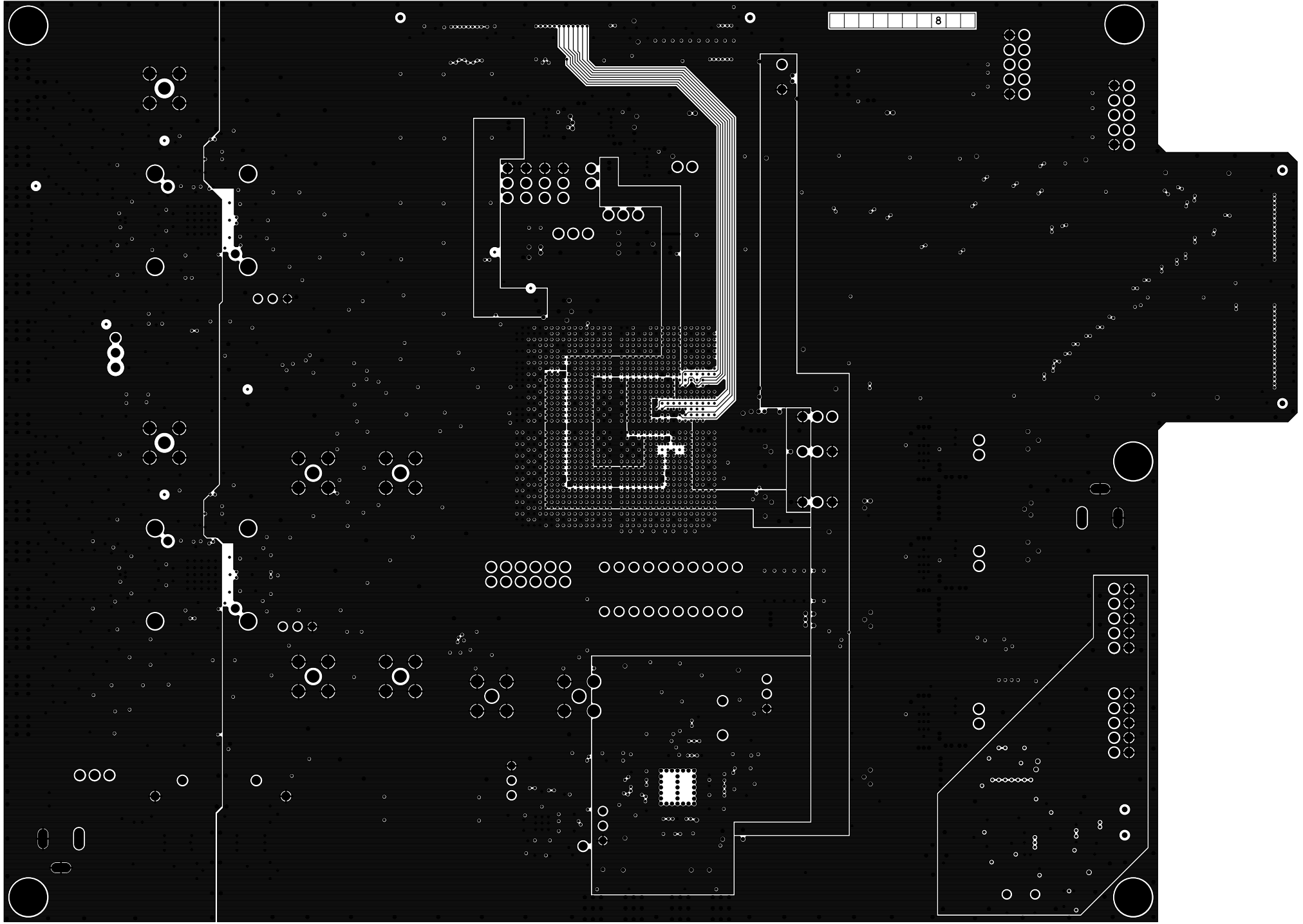
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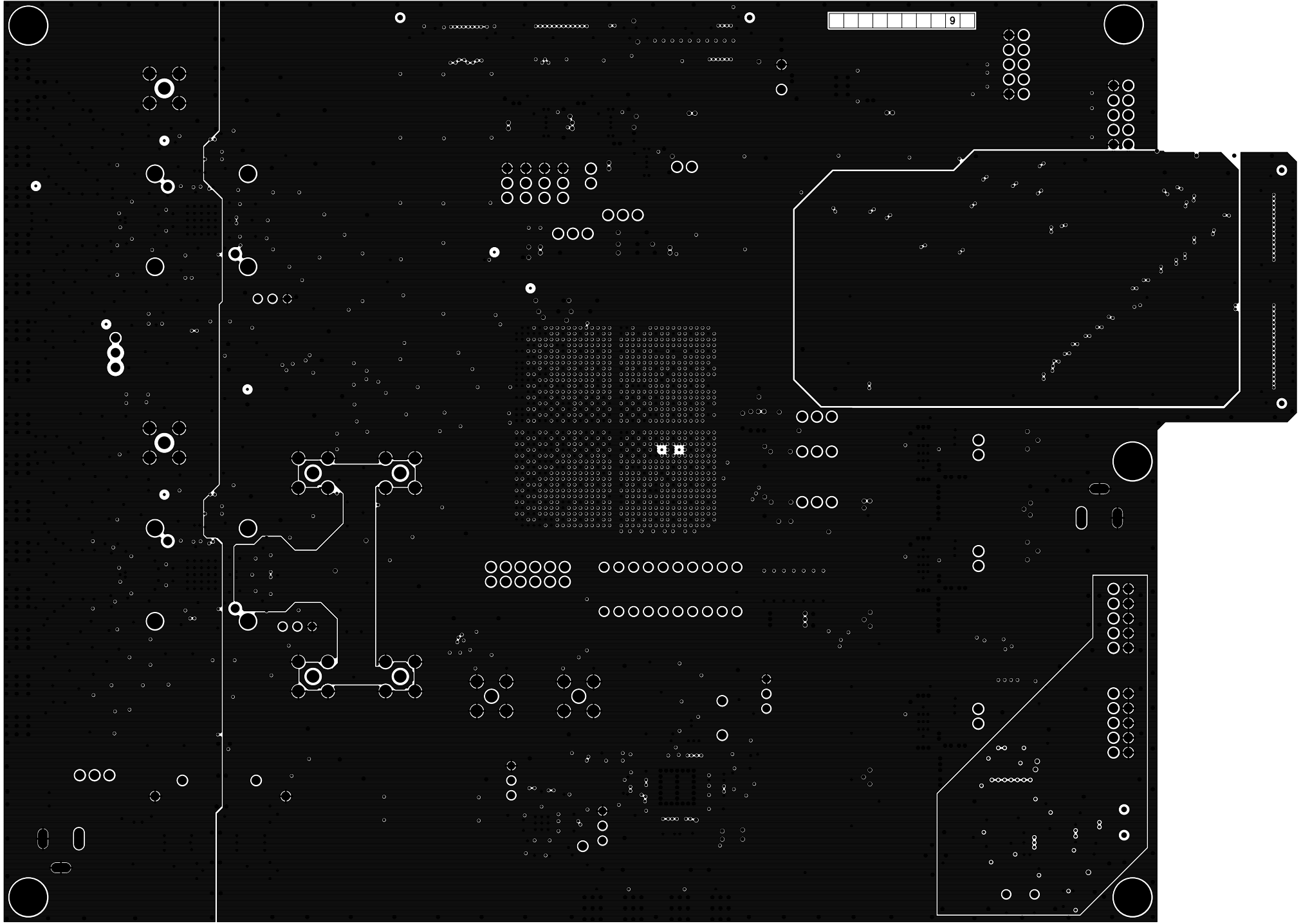
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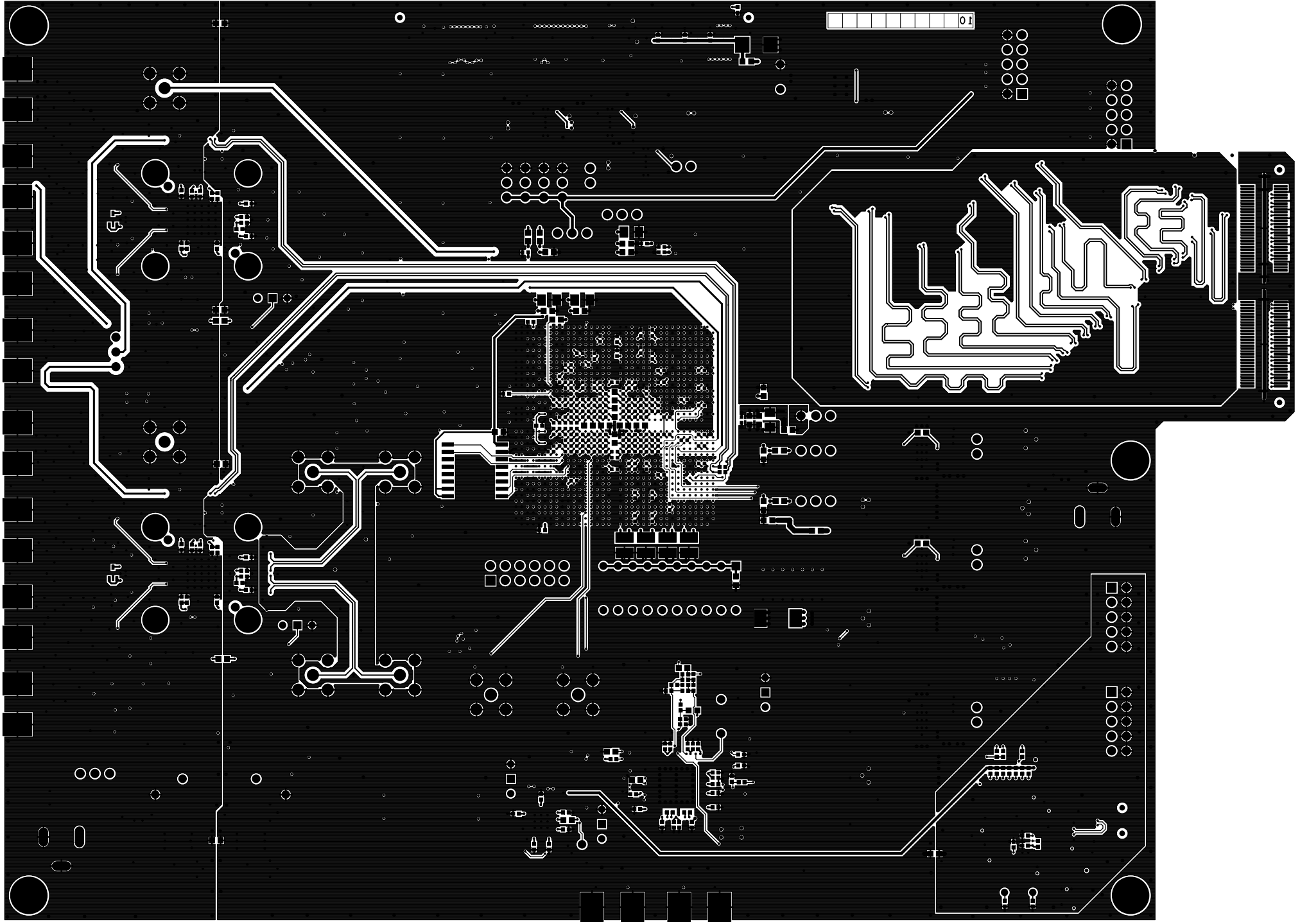

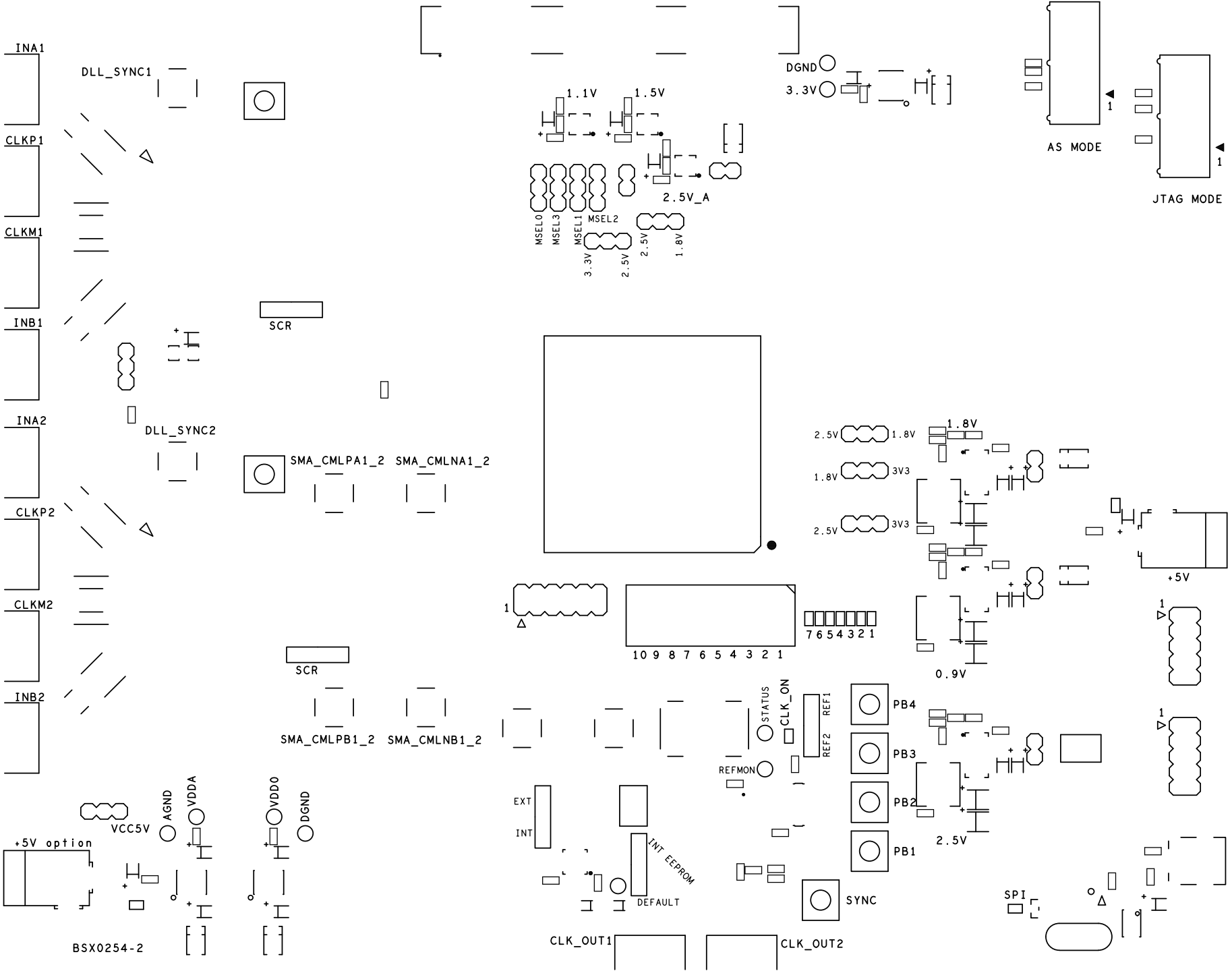
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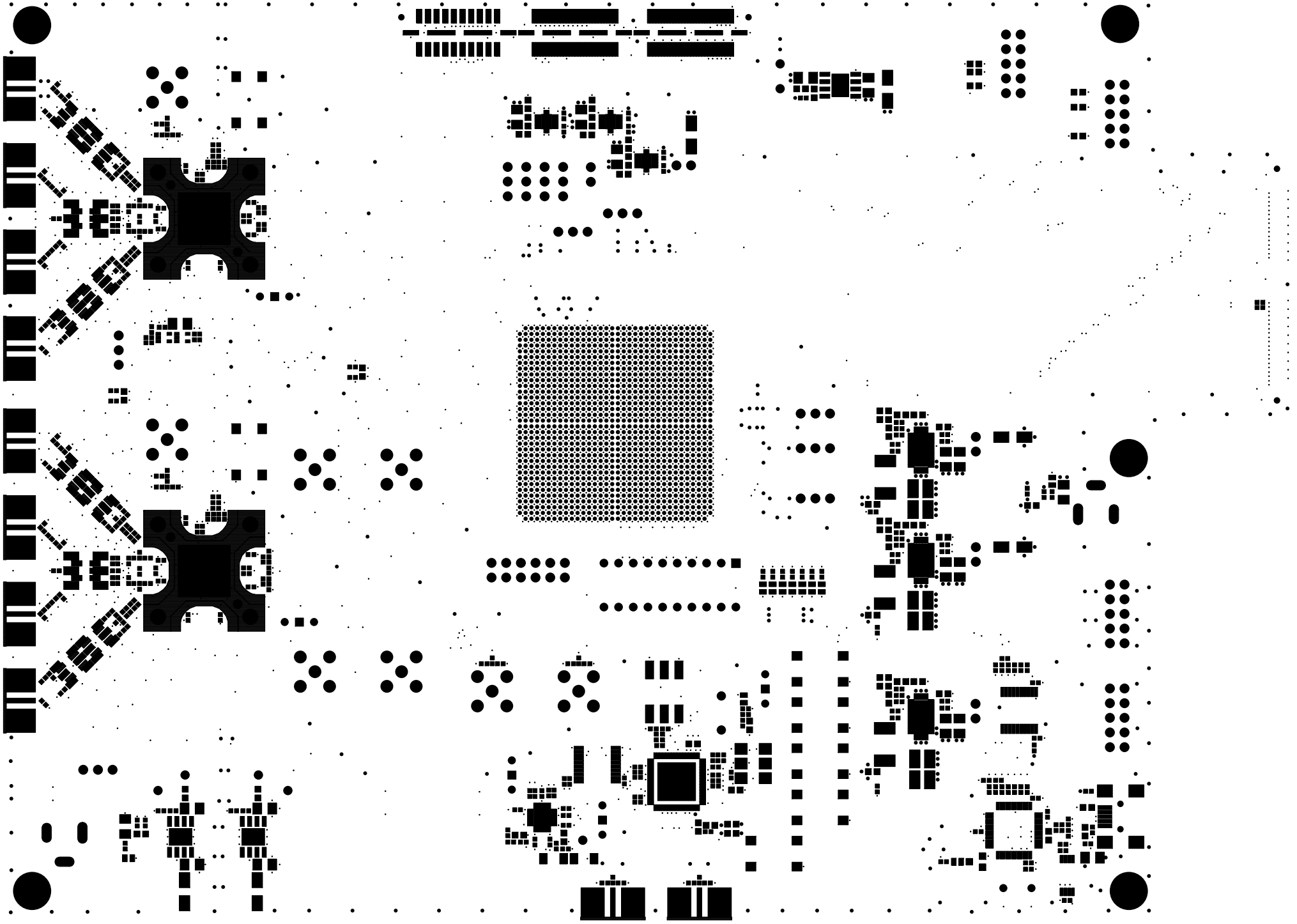
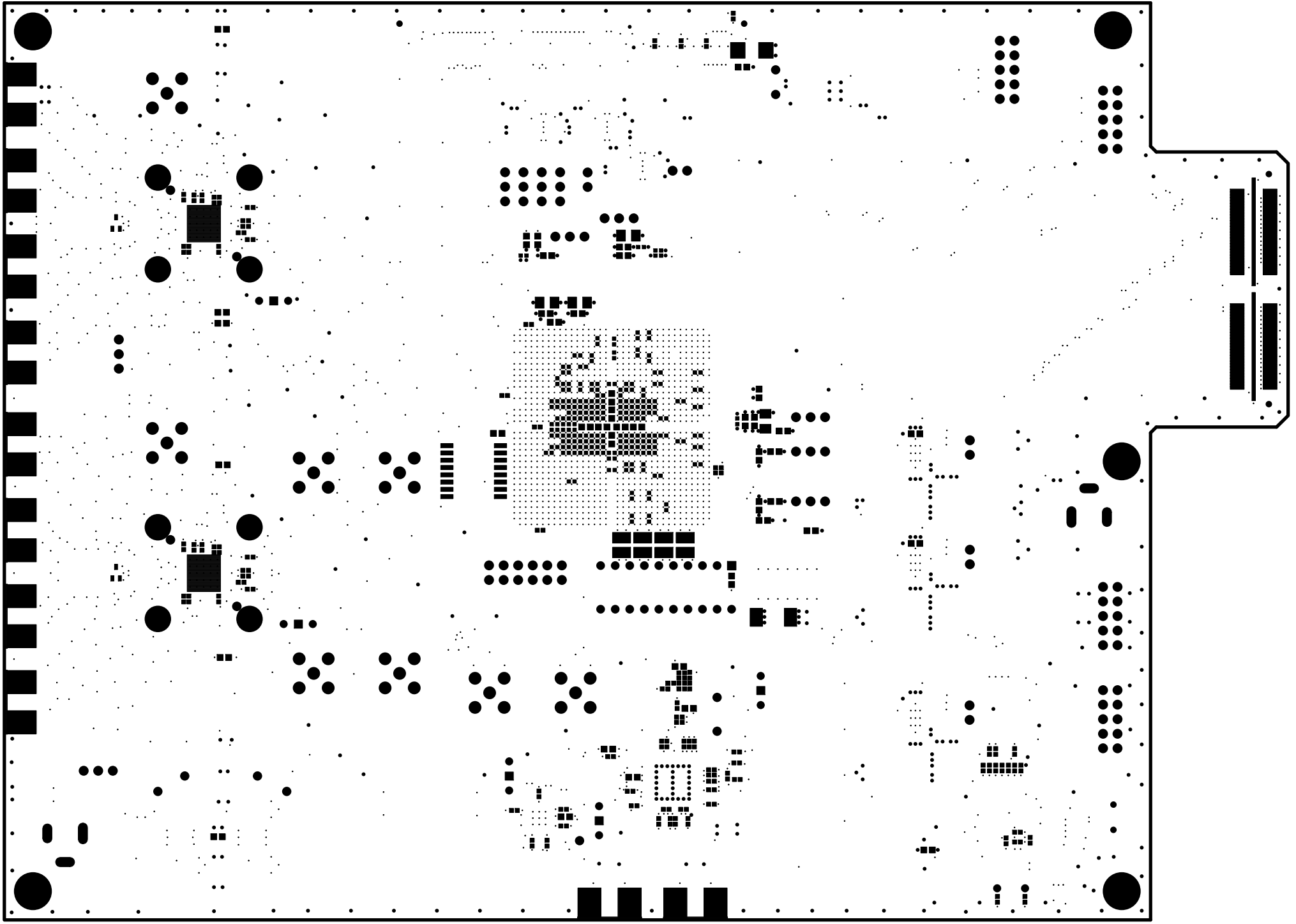
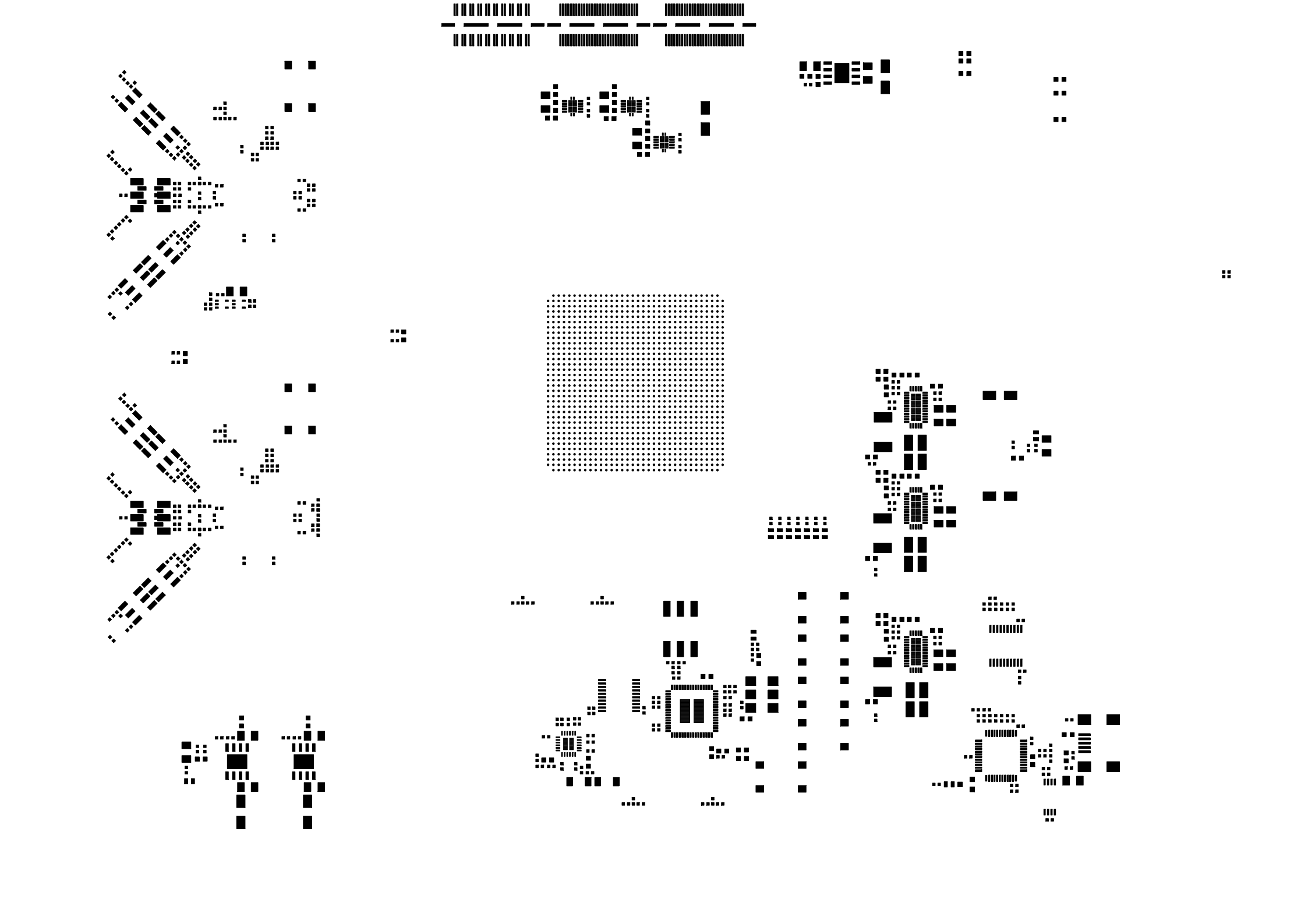
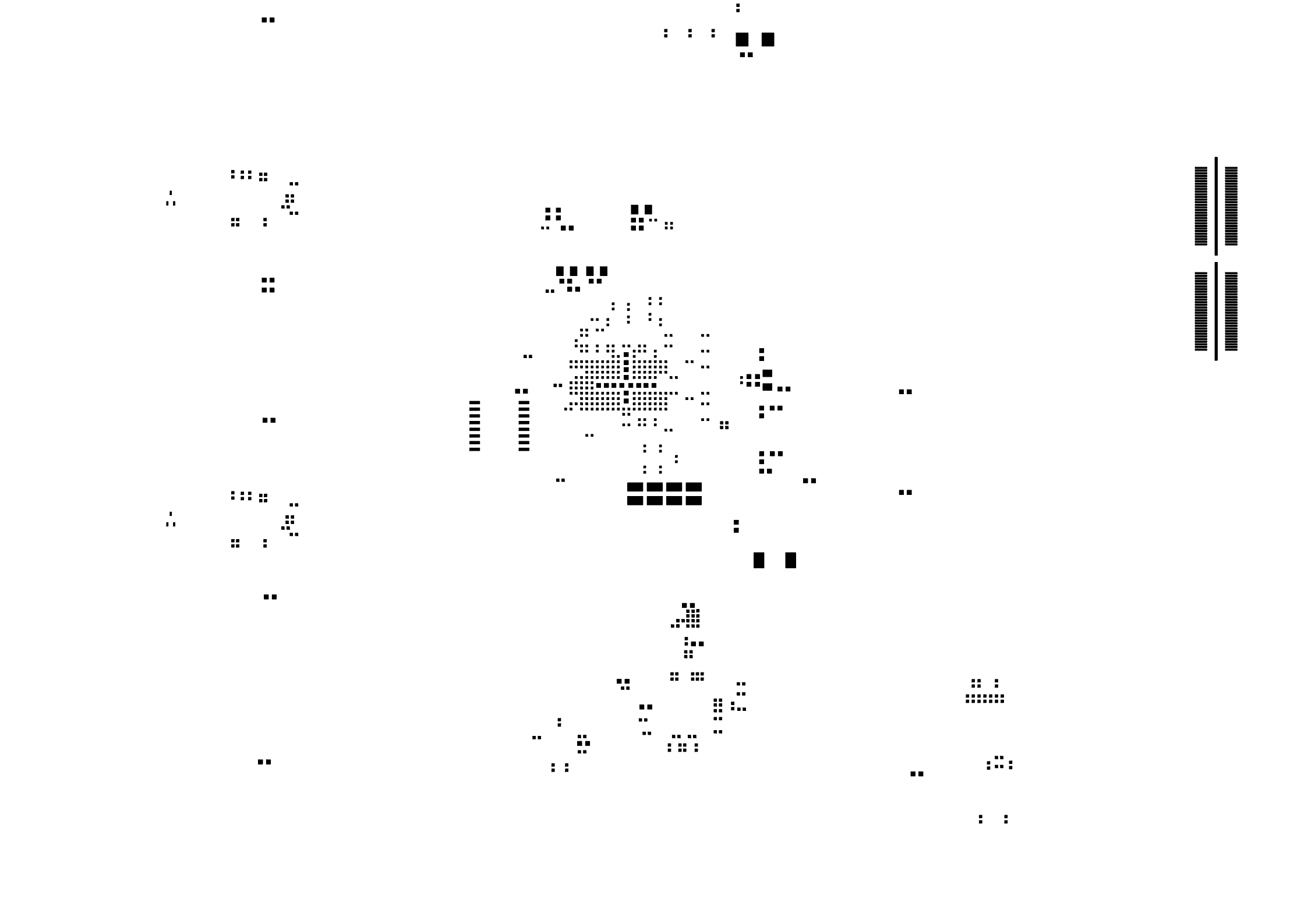
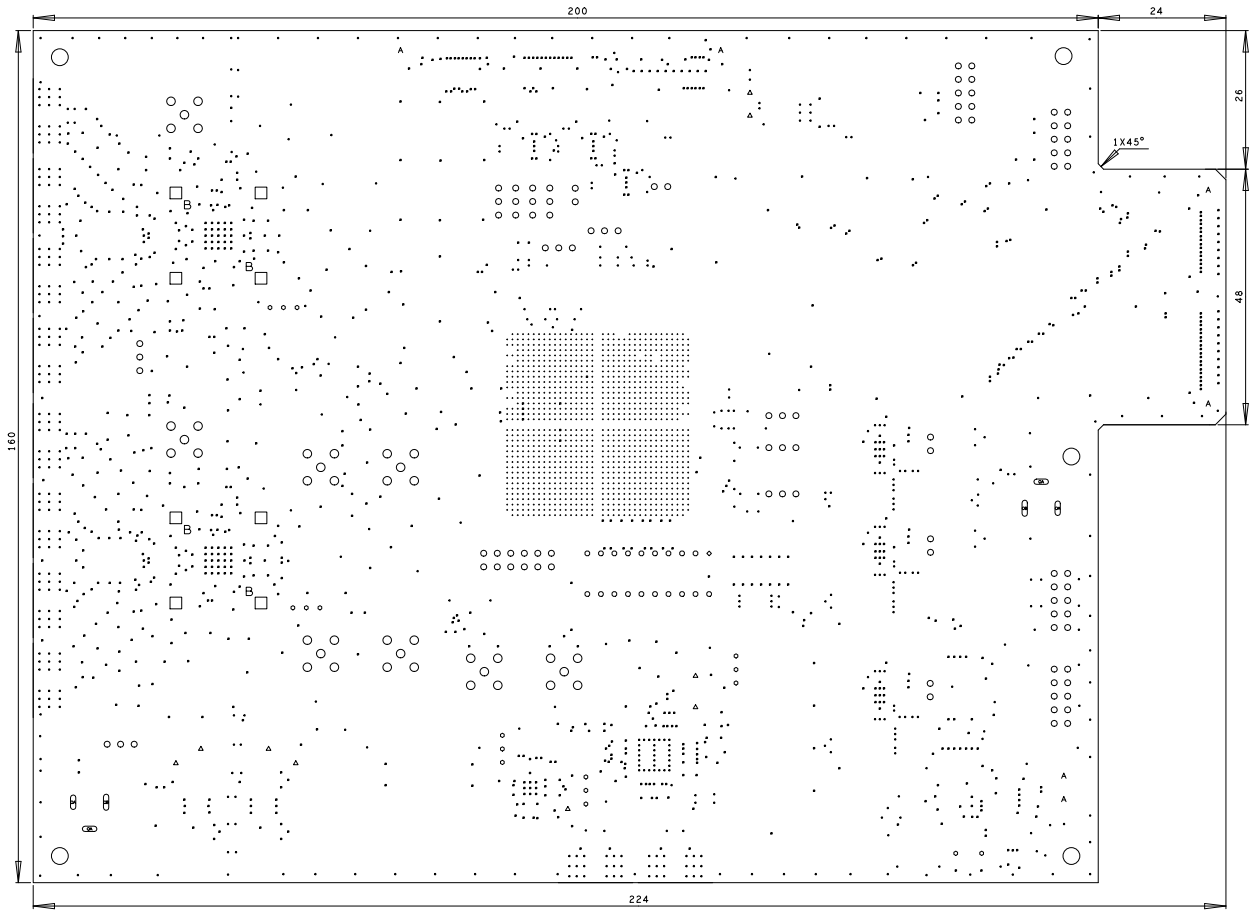
CLKP1
CLKM1
INB1
INA2
DLL_SYNC2
CLKP2
CLKM2
INB2
SCR
SMA_CMLPA1_2
SMA_CMLNA1_2
SCR
SMA_CMLPB1_2
SMA_CMLNB1_2
1.1V
1.5V
2.5V_A
MSEL0
MSEL3
MSEL1
MSEL2
3.3V
2.5V
2.5V
1.8V
DGND
3.3V
AS MODE
JTAG MODE
10 9 8 7 6 5 4 3 2 1
7 6 5 4 3 2 1
2.5V
1.8V
1.8V
3V3
2.5V
3V3
1.8V
+5V
0.9V
2.5V
STATUS
CLK_ON
REF1
REF2
REFMON
PB4
PB3
PB2
PB1
EXT
INT
INT EEPROM
DEFAULT
SYNC
SPI
CLK_OUT1
CLK_OUT2
VCC5V
AGND
VDDA
VDDO
DGND
+5V option
BSX0254-2











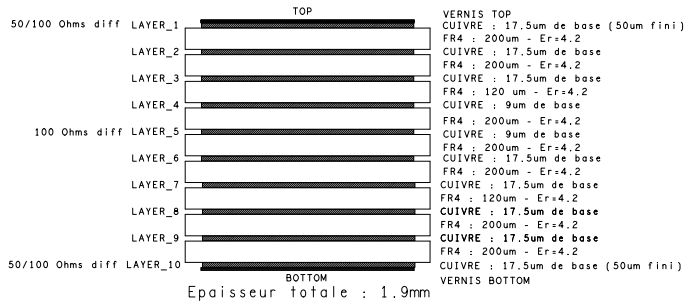
DRILL LAYER

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
◦	0.8	+0.1/-0.05	PLATED	17
○	0.9	+0.1/-0.05	PLATED	19
◇	0.9	+0.1/-0.05	PLATED	1
△	1.0	+0.1/-0.05	PLATED	9
○	1.1	+0.1/-0.05	PLATED	95
○	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

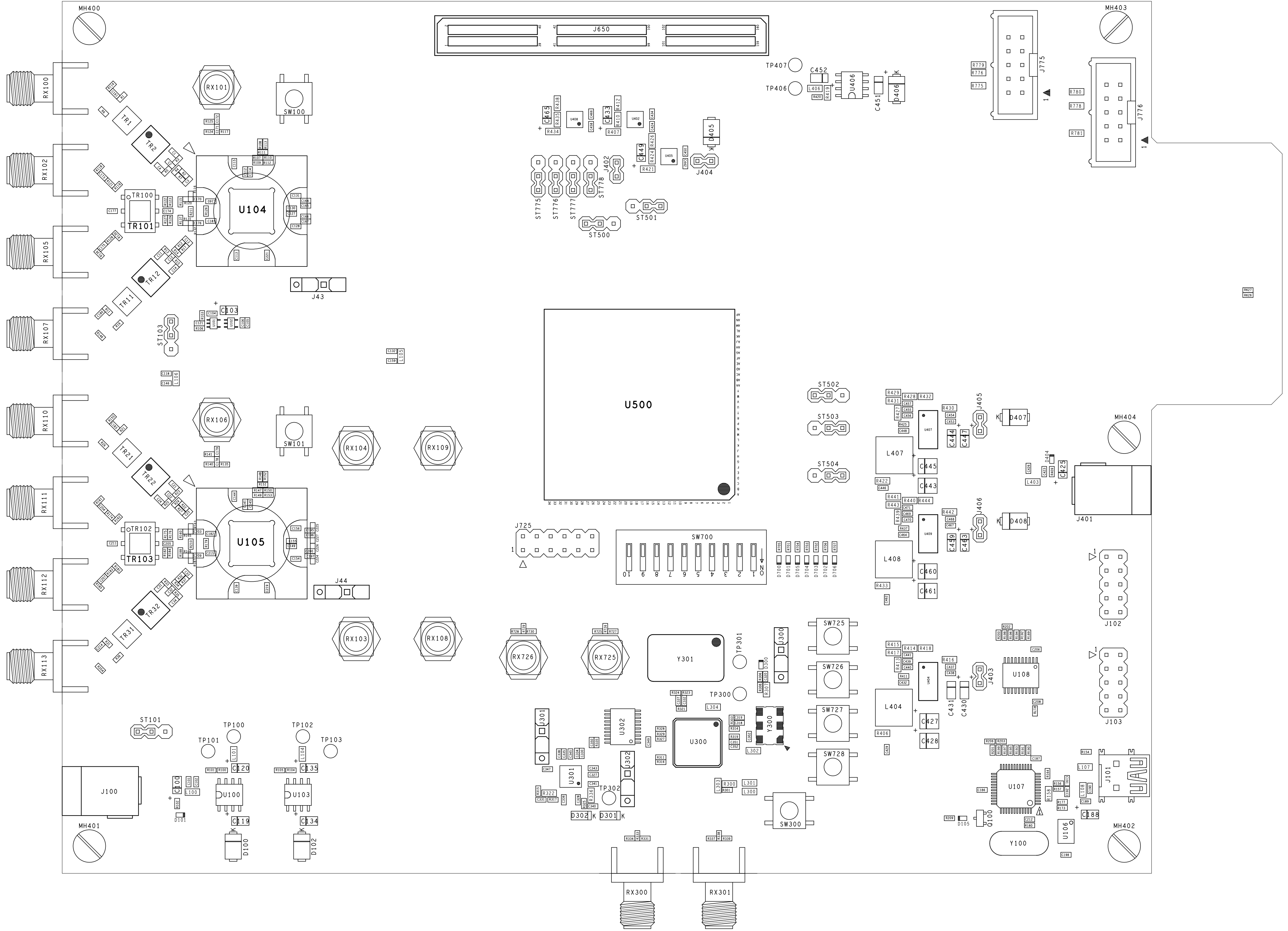
Via 0.2, 0.25, 0.3mm
diametre perce
(possibilite de tout percer a 0.25mm)

Percages 1.55NM perces en meme
temps que les trous Metal

EMPILEMENT 10 COUCHES:



Epaisseur totale : 1.9mm



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MH403
MH404
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U104
U105
U500
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TR2
TR11
TR12
TR21
TR22
TR31
TR32
TR100
TR101
TR102
TR103
RX100
RX101
RX102
RX103
RX104
RX105
RX106
RX107
RX108
RX109
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RX726
SW100
SW101
SW300
SW700
SW725
SW726
SW727
SW728
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J44
J100
J101
J102
J103
J401
J402
J403
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J725
J775
J776
ST101
ST103
ST500
ST501
ST502
ST503
ST504
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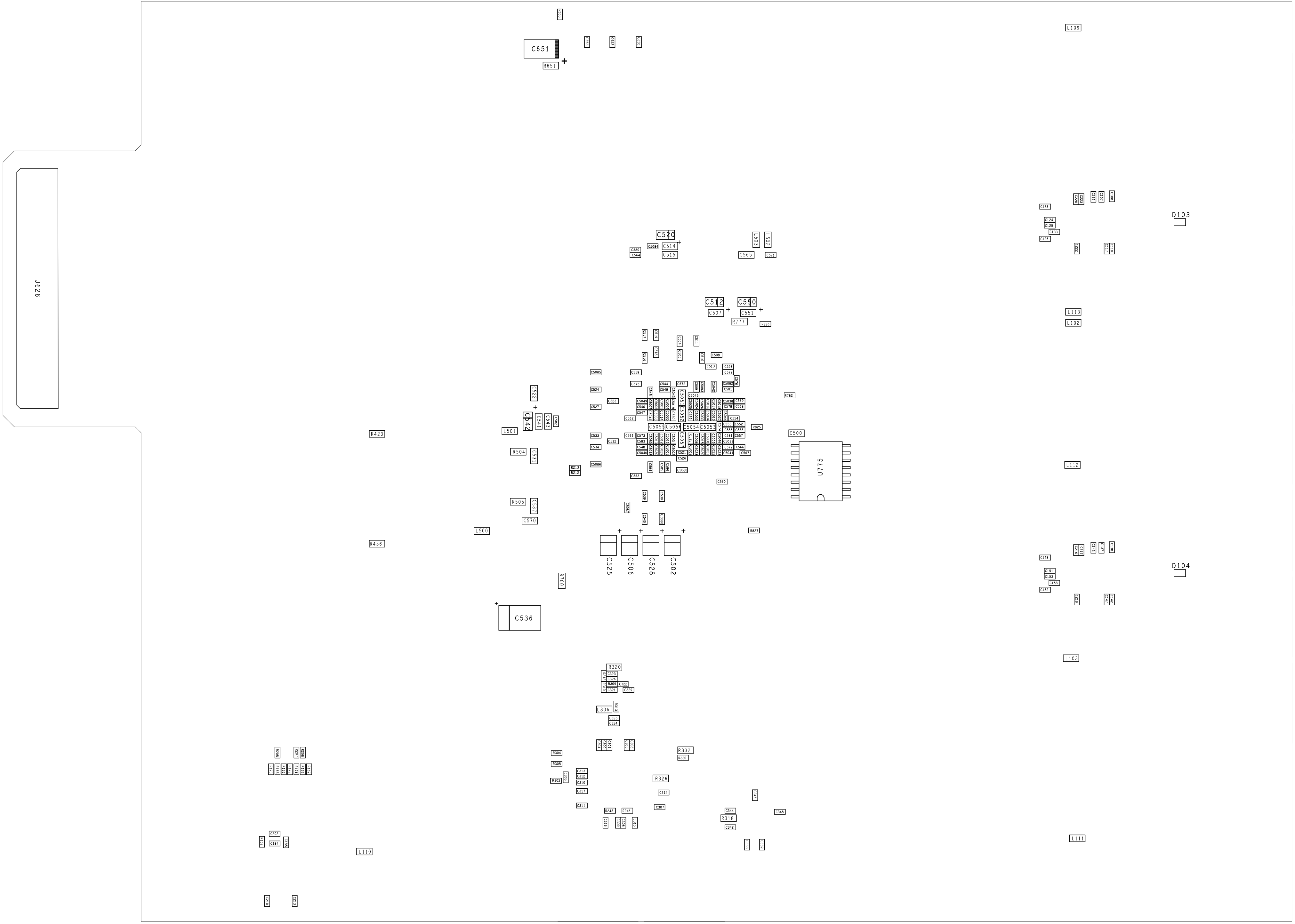

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L102
C522
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R504
C531
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C537
C570
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U775
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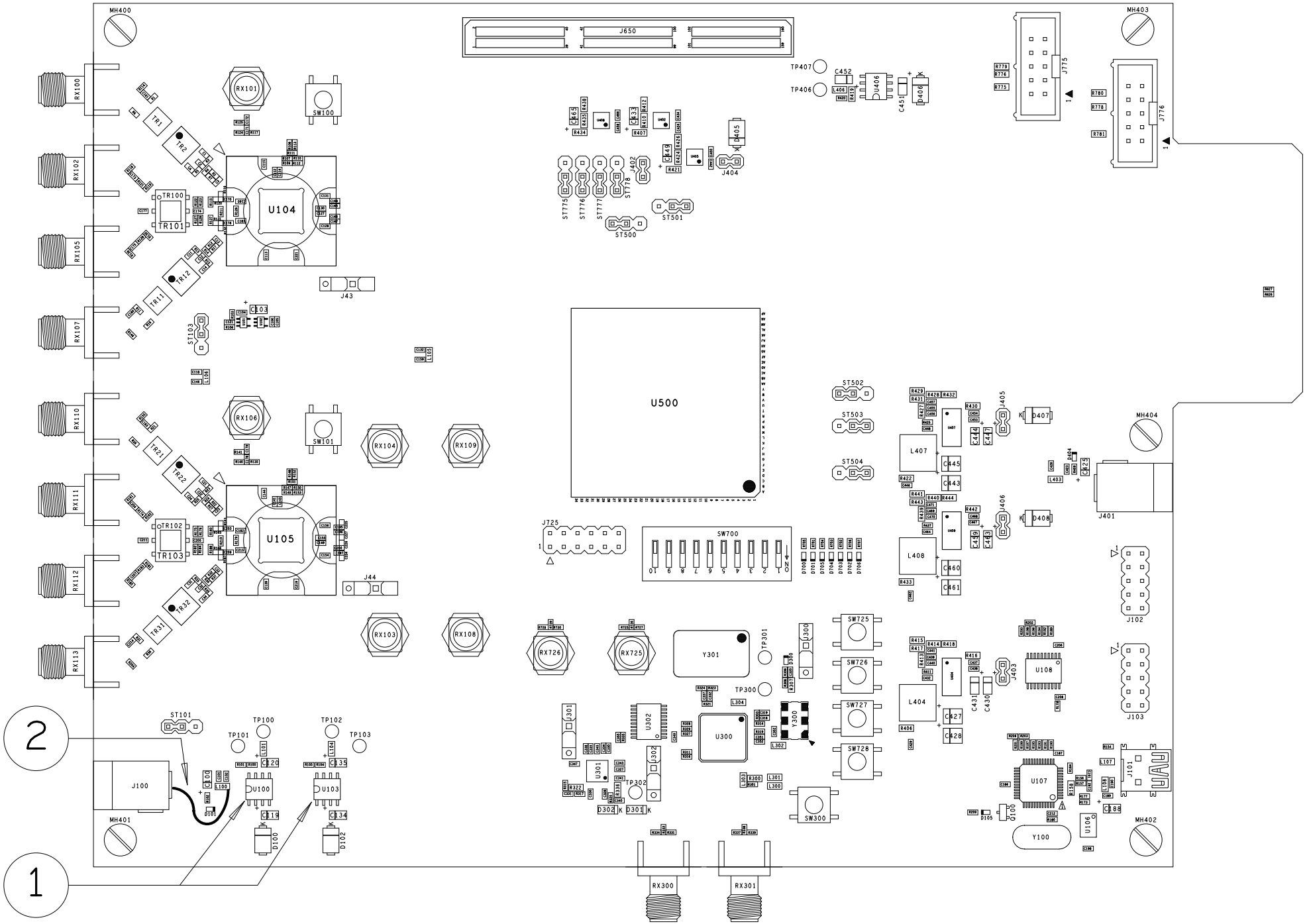
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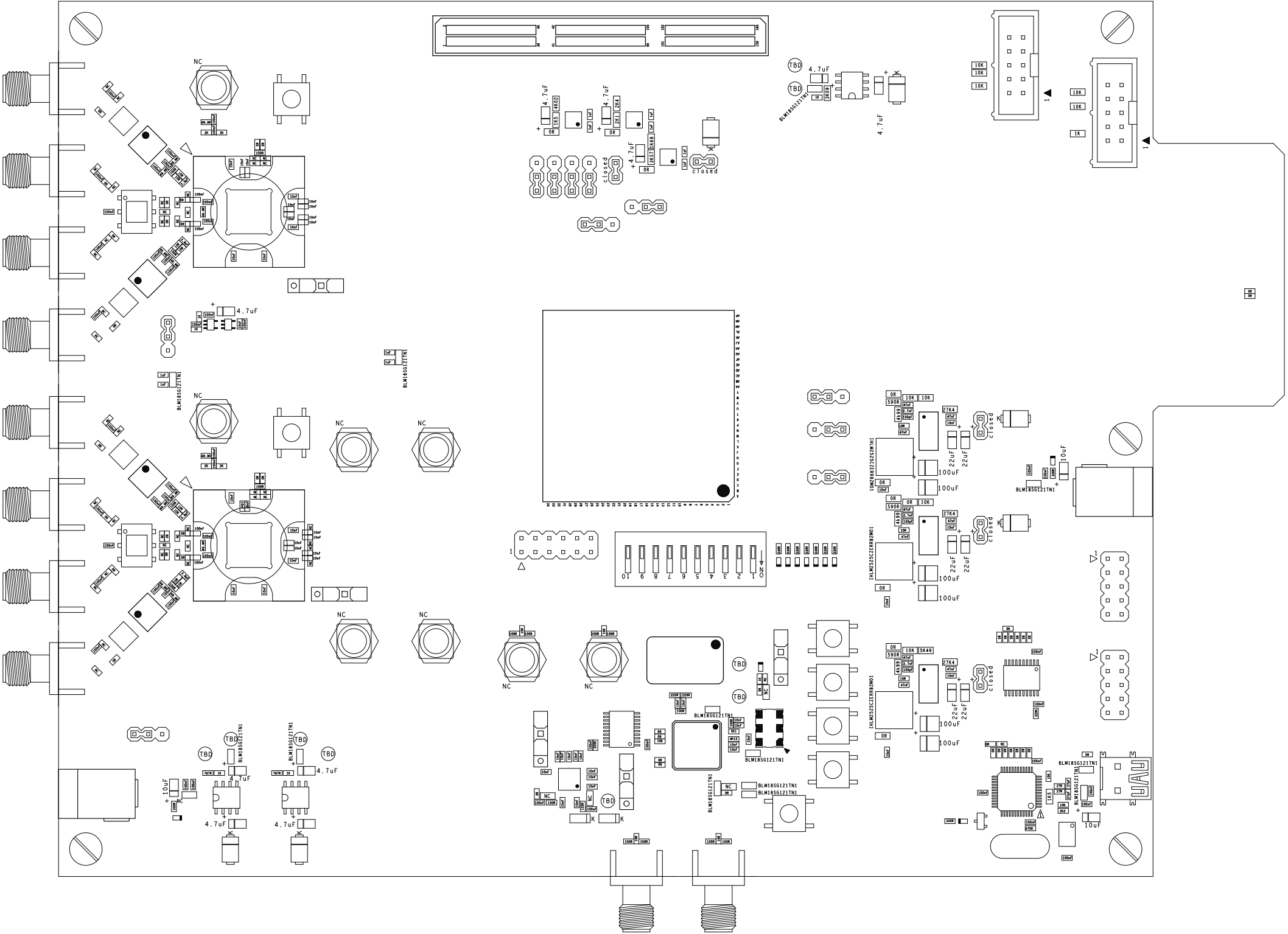

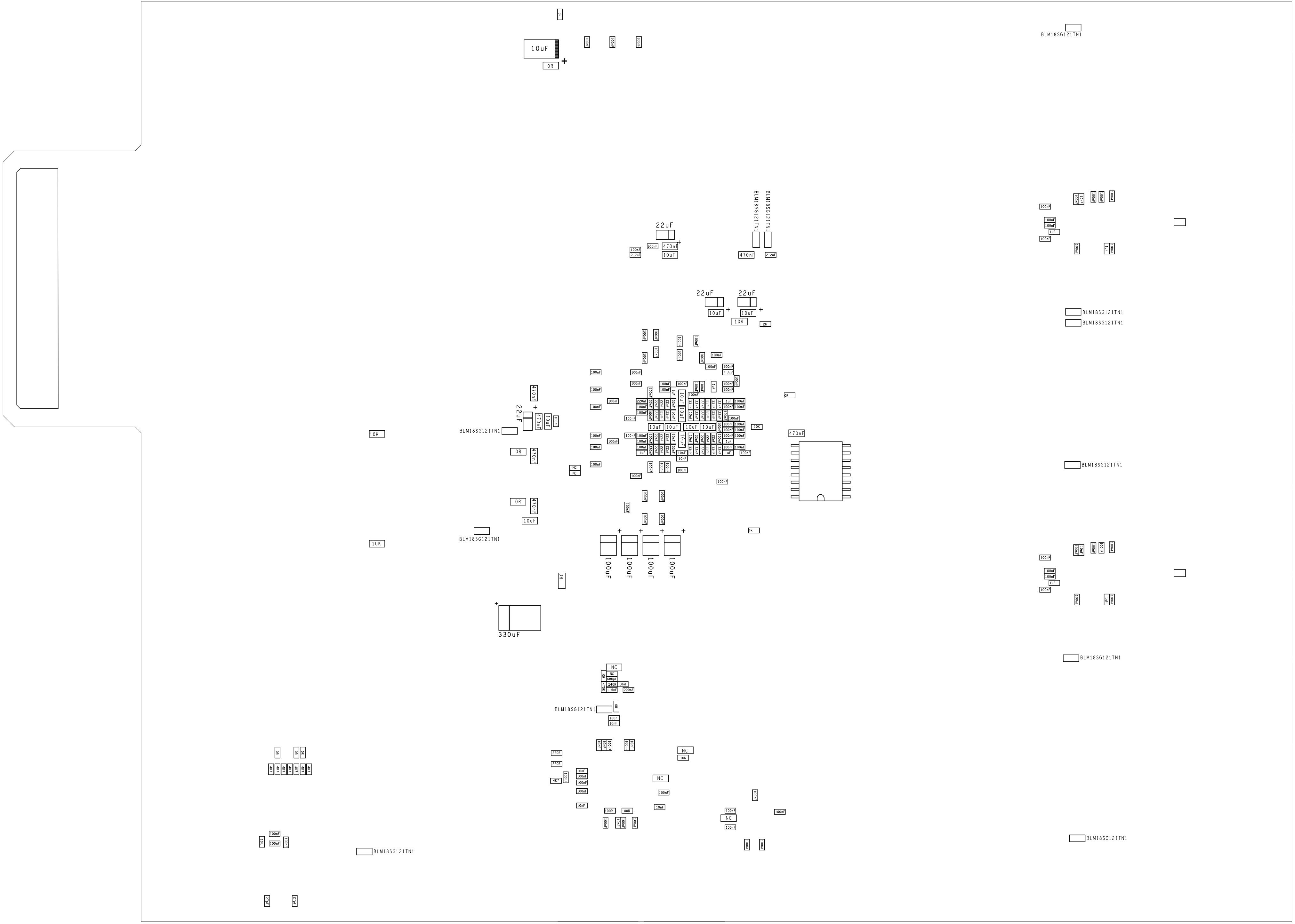

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