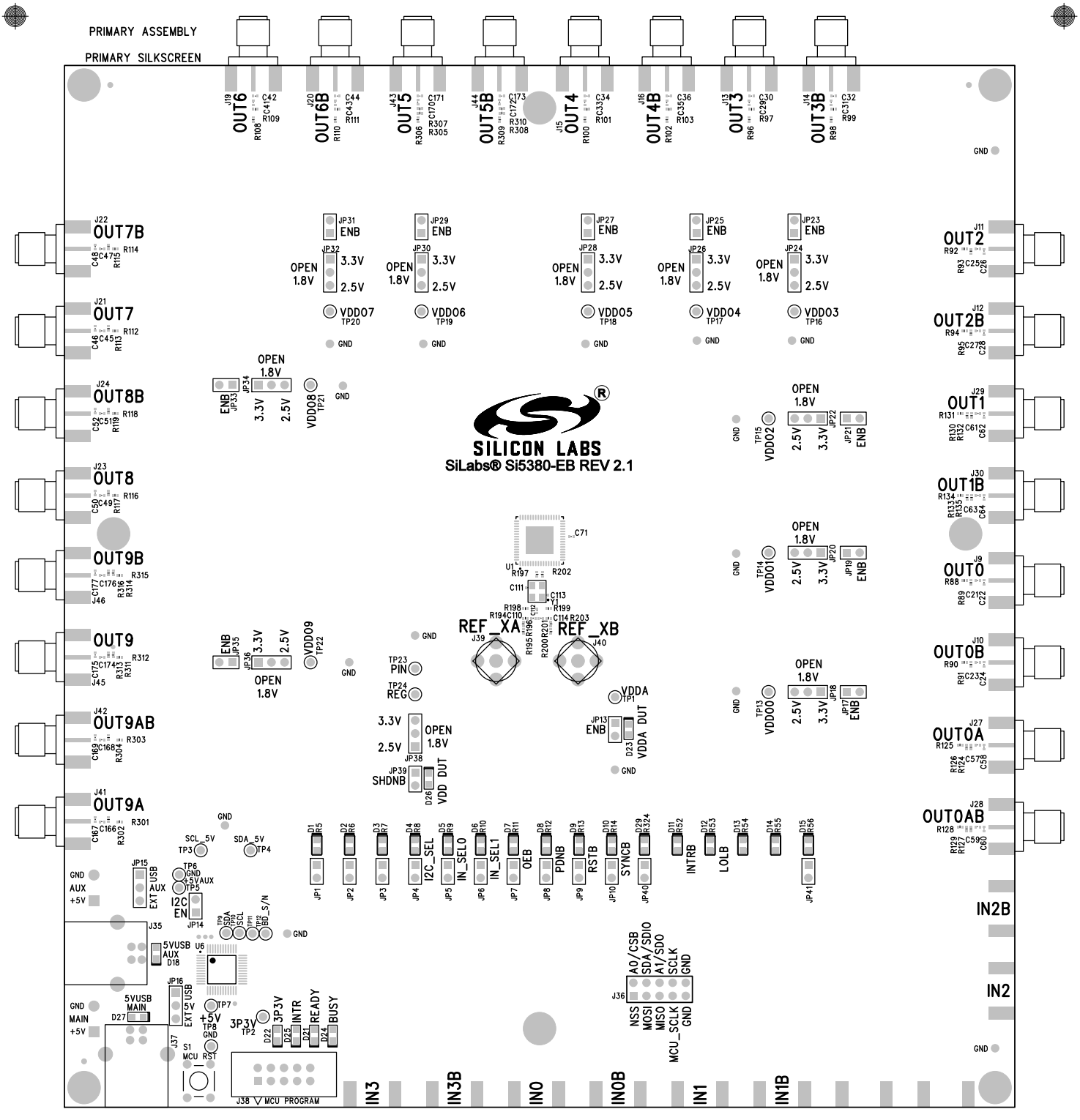
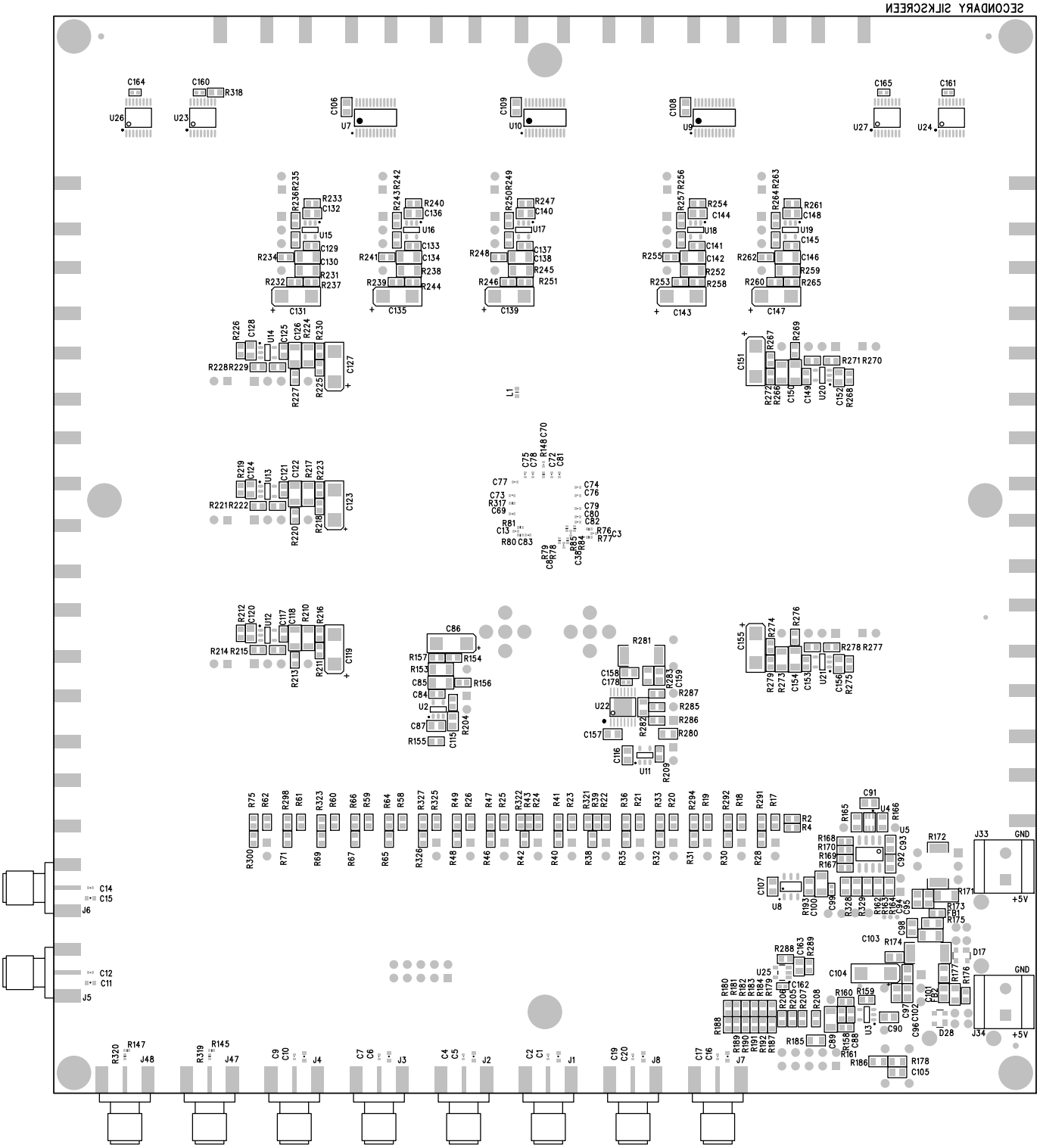
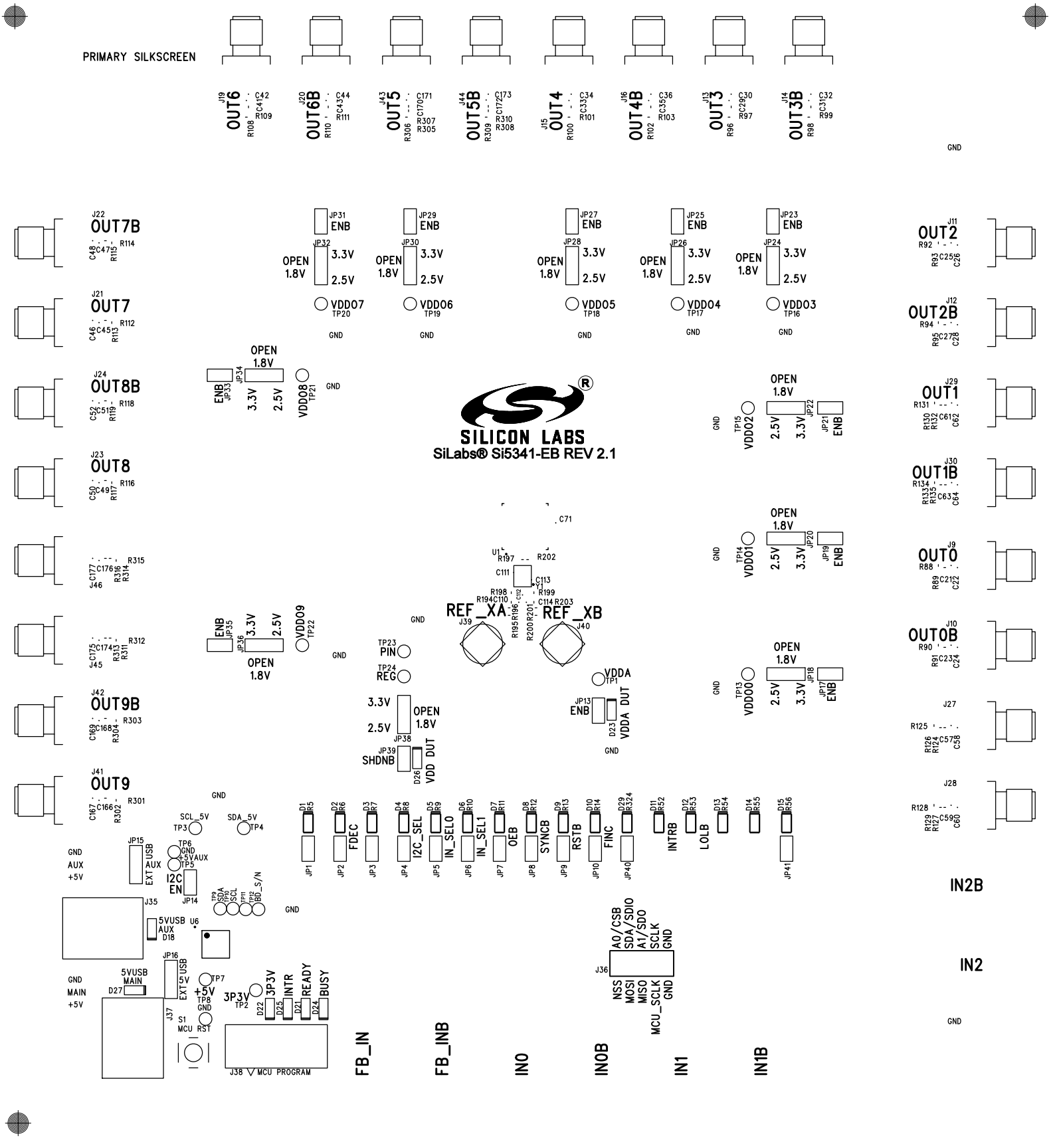
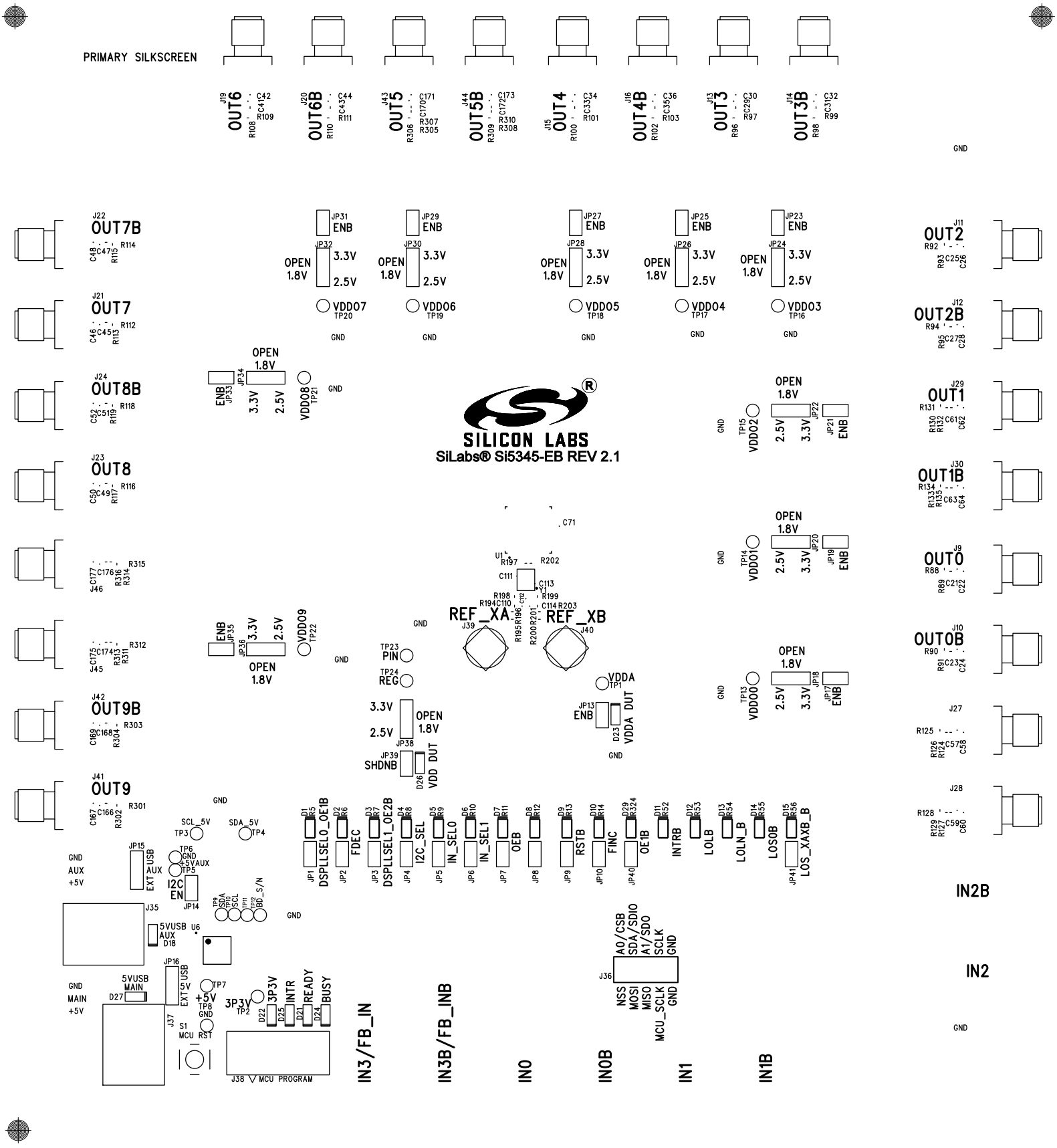

PRIMARY ASSEMBLY
PRIMARY SILKSCREEN
OUT6
OUT6B
OUT5
OUT5B
OUT4
OUT4B
OUT3
OUT3B
OUT7B
OUT7
OUT8B
OUT8
OUT9B
OUT9
OUT9AB
OUT9A
OUT2
OUT2B
OUT1
OUT1B
OUT0
OUT0B
OUT0A
OUT0AB
SILICON LABS
SiLabs® Si5380-EB REV 2.1
REF_XA
REF_XB
IN3
IN3B
IN0
IN0B
IN1
IN1B
IN2
IN2B
I2C_SEL
IN_SEL0
IN_SEL1
OEB
PDNB
RSTB
SYNCB
INTRB
LOLB
MCU_SCLK
MOSI
MISO
NSS
SCL_5V
SDA_5V
INTR
READY
BUSY
MCU PROGRAM
VDDO7
VDDO6
VDDO5
VDDO4
VDDO3
VDDO2
VDDO1
VDDO0
VDDO8
VDDO9
VDDA
VDD DUT
ENB
OPEN
1.8V
2.5V
3.3V
GND

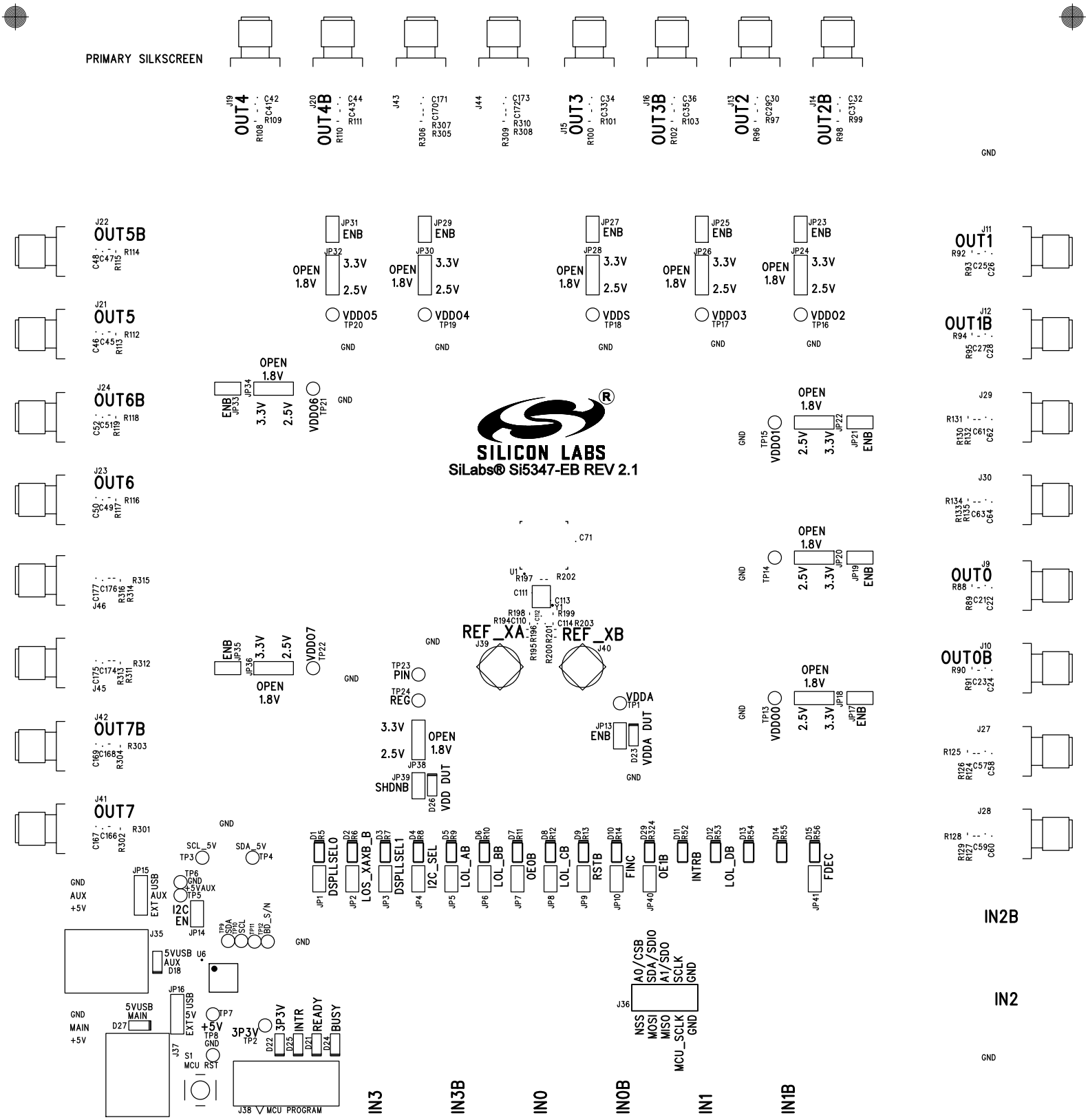
SECONDARY ASSEMBLY

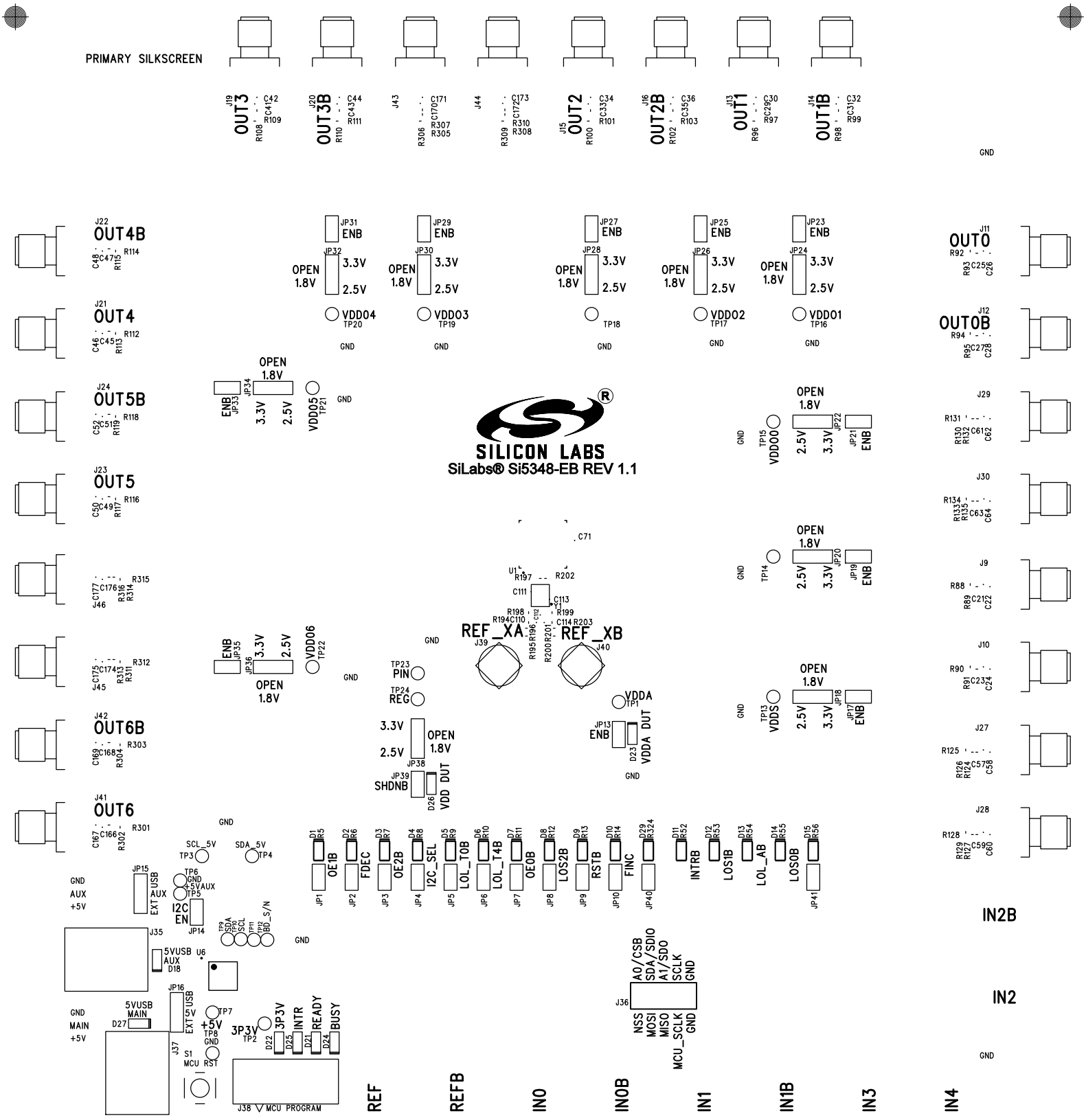
SECONDARY SILKSCREEN

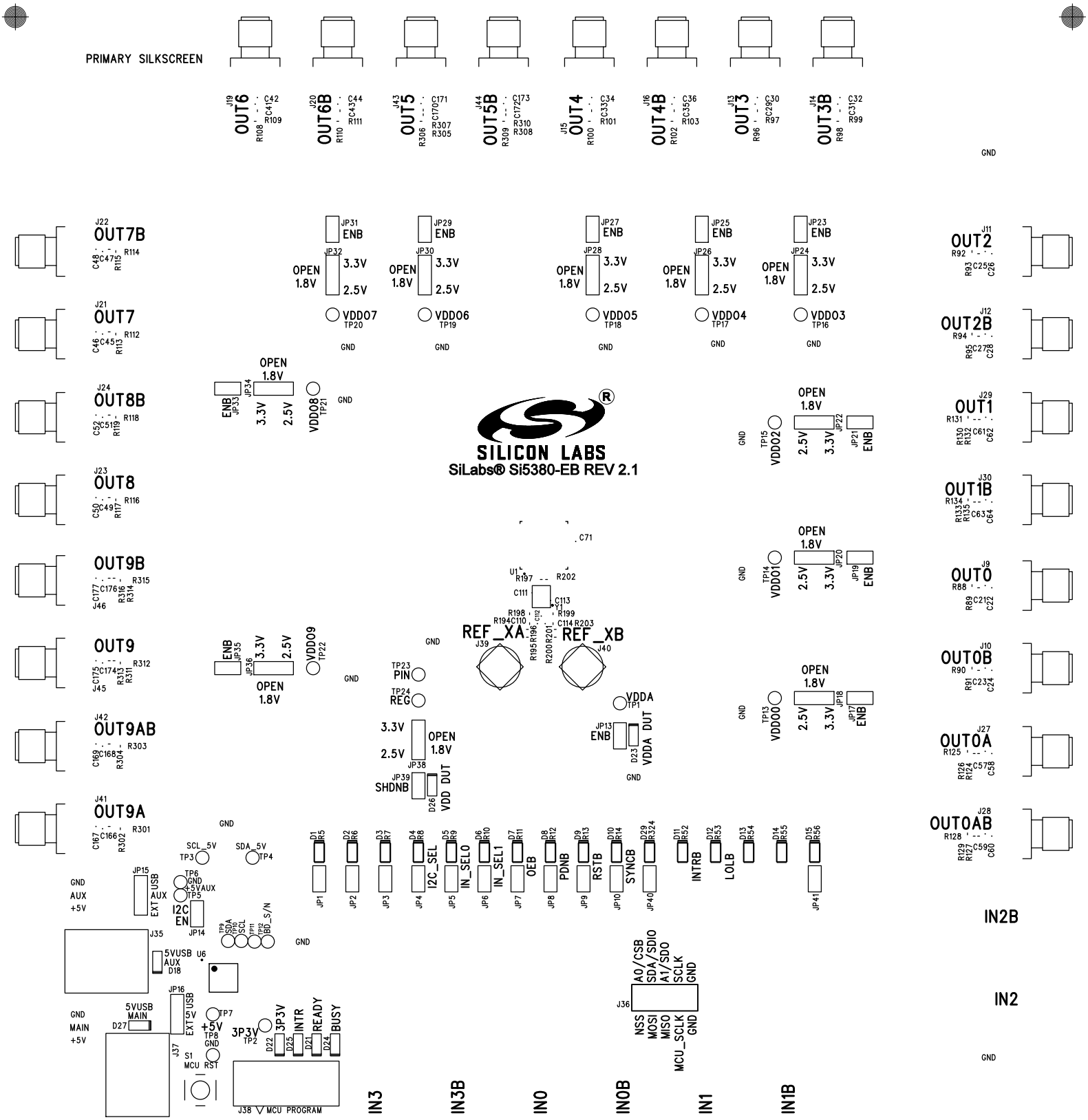


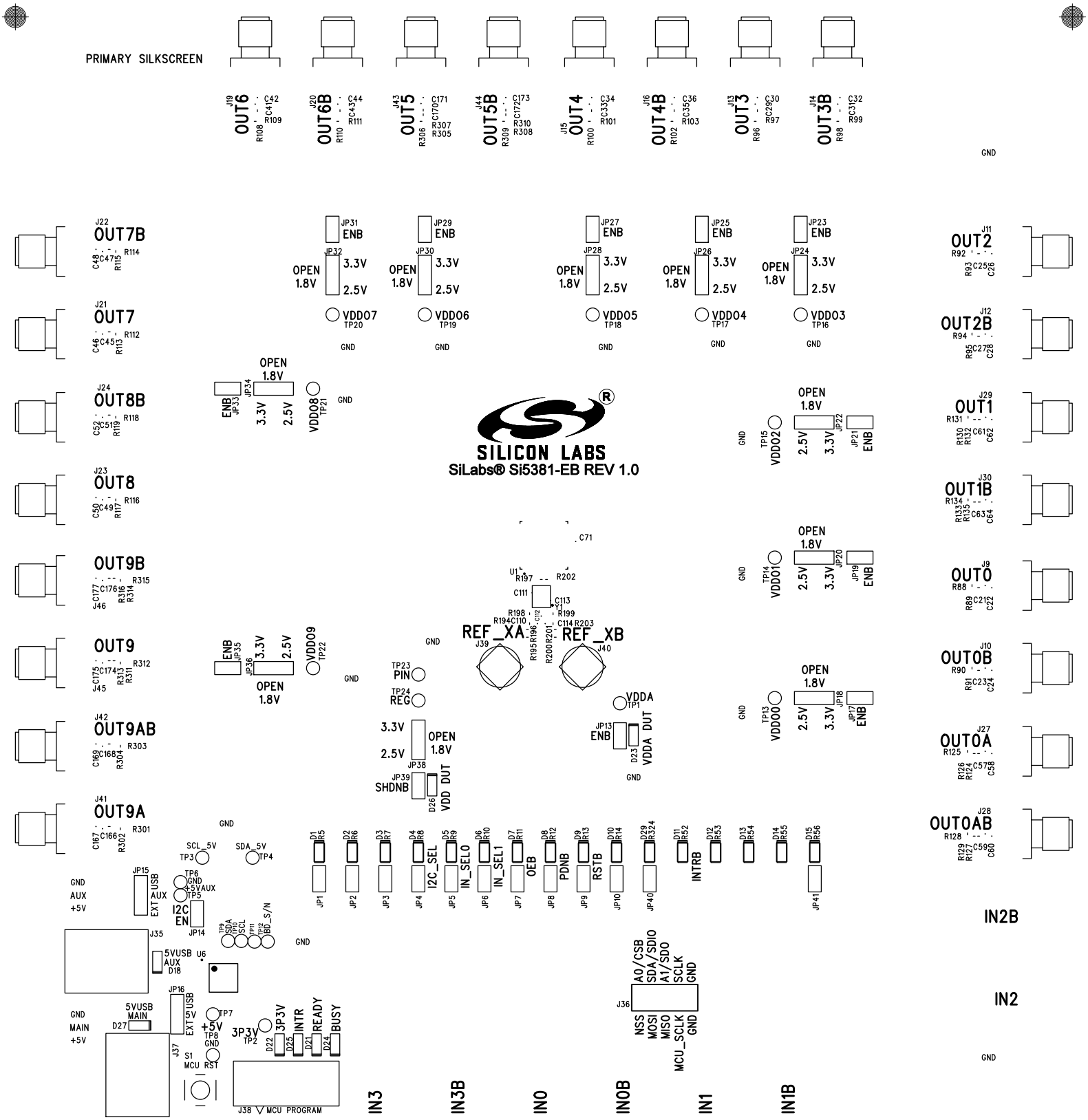

PRIMARY SILKSCREEN
OUT6
OUT6B
OUT5
OUT5B
OUT4
OUT4B
OUT3
OUT3B
GND
OUT7B
OUT7
OUT8B
OUT8
OUT9B
OUT9
OUT2
OUT2B
OUT1
OUT1B
OUT0
OUT0B
JP31 ENB
JP29 ENB
JP27 ENB
JP25 ENB
JP23 ENB
OPEN 1.8V
3.3V
2.5V
VDDO7 TP20
VDDO6 TP19
VDDO5 TP18
VDDO4 TP17
VDDO3 TP16
VDDO8 TP21
VDDO9 TP22
VDDO2 TP15
VDDO1 TP14
VDDO0 TP13
SILICON LABS
SiLabs® Si5341-EB REV 2.1
REF_XA
REF_XB
PIN
REG
VDDA
VDDA DUT
SHDNB
VDD DUT
FDEC
I2C_SEL
IN_SEL0
IN_SEL1
OEB
SYNCB
RSTB
FINC
INTRB
LOLB
SCL_5V
SDA_5V
I2C EN
5VUSB AUX
5VUSB MAIN
3P3V
INTR
READY
BUSY
MCU RST
MCU PROGRAM
FB_IN
FB_INB
IN0
IN0B
IN1
IN1B
IN2B
IN2
A0/CSB
SDA/SDIO
A1/SDO
SCLK
NSS
MOSI
MISO
MCU_SCLK

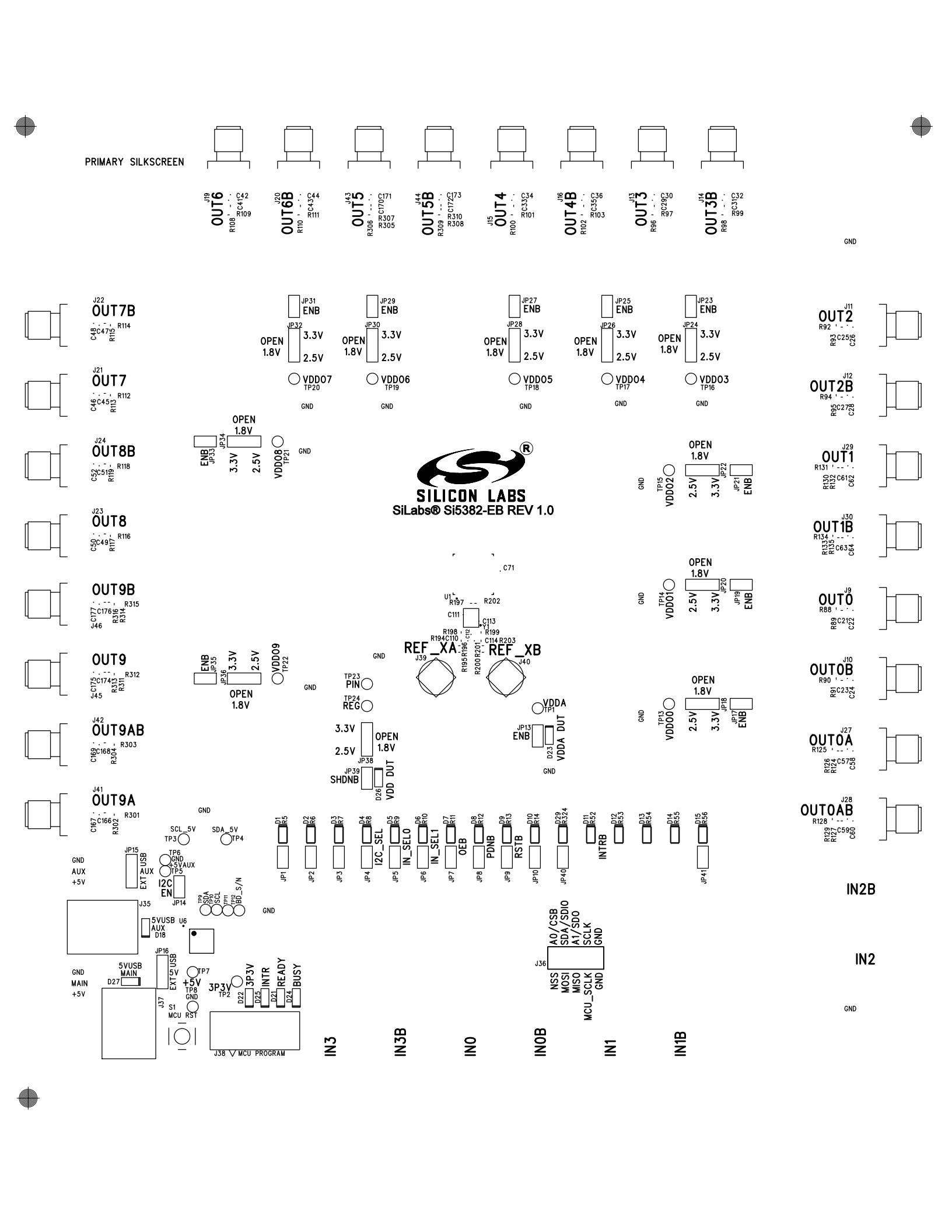

PRIMARY SILKSCREEN
OUT6
OUT6B
OUT5
OUT5B
OUT4
OUT4B
OUT3
OUT3B
GND
OUT7B
OUT7
OUT8B
OUT8
OUT9B
OUT9
OUT2
OUT2B
OUT1
OUT1B
OUT0
OUT0B
JP31 ENB
JP29 ENB
JP27 ENB
JP25 ENB
JP23 ENB
JP32
JP30
JP28
JP26
JP24
OPEN 1.8V
3.3V
2.5V
VDDO7 TP20
VDDO6 TP19
VDDO5 TP18
VDDO4 TP17
VDDO3 TP16
VDDO8 TP21
VDDO9 TP22
VDDO2 TP15
VDDO1 TP14
VDDO0 TP13
JP34
JP35
JP36
JP22
JP21
JP20
JP19
JP18
JP17
ENB
SILICON LABS
SiLabs® Si5345-EB REV 2.1
REF_XA
REF_XB
J39
J40
VDDA TP1
VDDA DUT
JP13 ENB
D23
TP23 PIN
TP24 REG
JP38
JP39 SHDNB
D26
VDD DUT
DSPLLSEL0_OE1B
FDEC
DSPLLSEL1_OE2B
I2C_SEL
IN_SEL0
IN_SEL1
OEB
RSTB
FINC
OE1B
INTRB
LOLB
LOLN_B
LOSOB
LOS_XAXB_B
JP1
JP2
JP3
JP4
JP5
JP6
JP7
JP8
JP9
JP10
JP40
JP41
SCL_5V
SDA_5V
TP3
TP4
JP15
TP6
TP5
EXT USB
AUX
5VAUX
I2C EN
JP14
TP9 SDA
TP10 SCL
TP11
TP12 BD_S/N
J35
5VUSB AUX
D18
U6
JP16
5VUSB MAIN
D27
EXT USB
TP7
+5V
TP8
3P3V
TP2
D22
3P3V
INTR
READY
BUSY
D25
D21
D24
J37
S1
MCU RST
J38 MCU PROGRAM
A0/CSB
SDA/SDIO
A1/SDO
SCLK
GND
J36
NSS
MOSI
MISO
MCU_SCLK
GND
IN3/FB_IN
IN3B/FB_INB
IN0
IN0B
IN1
IN1B
IN2B
IN2
GND


PRIMARY SILKSCREEN
OUT4
OUT4B
OUT3
OUT3B
OUT2
OUT2B
OUT5B
OUT5
OUT6B
OUT6
OUT7B
OUT7
OUT1
OUT1B
OUT0
OUT0B
SILICON LABS
SiLabs® Si5347-EB REV 2.1
REF_XA
REF_XB
VDDO5
VDDO4
VDDS
VDDO3
VDDO2
VDDO6
VDDO7
VDDO1
VDDO0
VDDA
VDDA DUT
PIN
REG
SHDNB
VDD DUT
ENB
OPEN
1.8V
3.3V
2.5V
DSPLLSEL0
LOS_XAXB_B
DSPLLSEL1
I2C_SEL
LOL_AB
LOL_BB
OEOB
LOL_CB
RSTB
FINC
OE1B
INTRB
LOL_DB
FDEC
IN2B
IN2
IN3
IN3B
IN0
IN0B
IN1
IN1B
5VUSB AUX
5VUSB MAIN
EXT USB
I2C EN
MCU RST
MCU PROGRAM
A0/CSB
SDA/SDIO
A1/SDO
SCLK
NSS
MOSI
MISO
MCU_SCLK
GND
AUX
+5V
MAIN
SCL_5V
SDA_5V
3P3V
INTR
READY
BUSY
BD_S/N

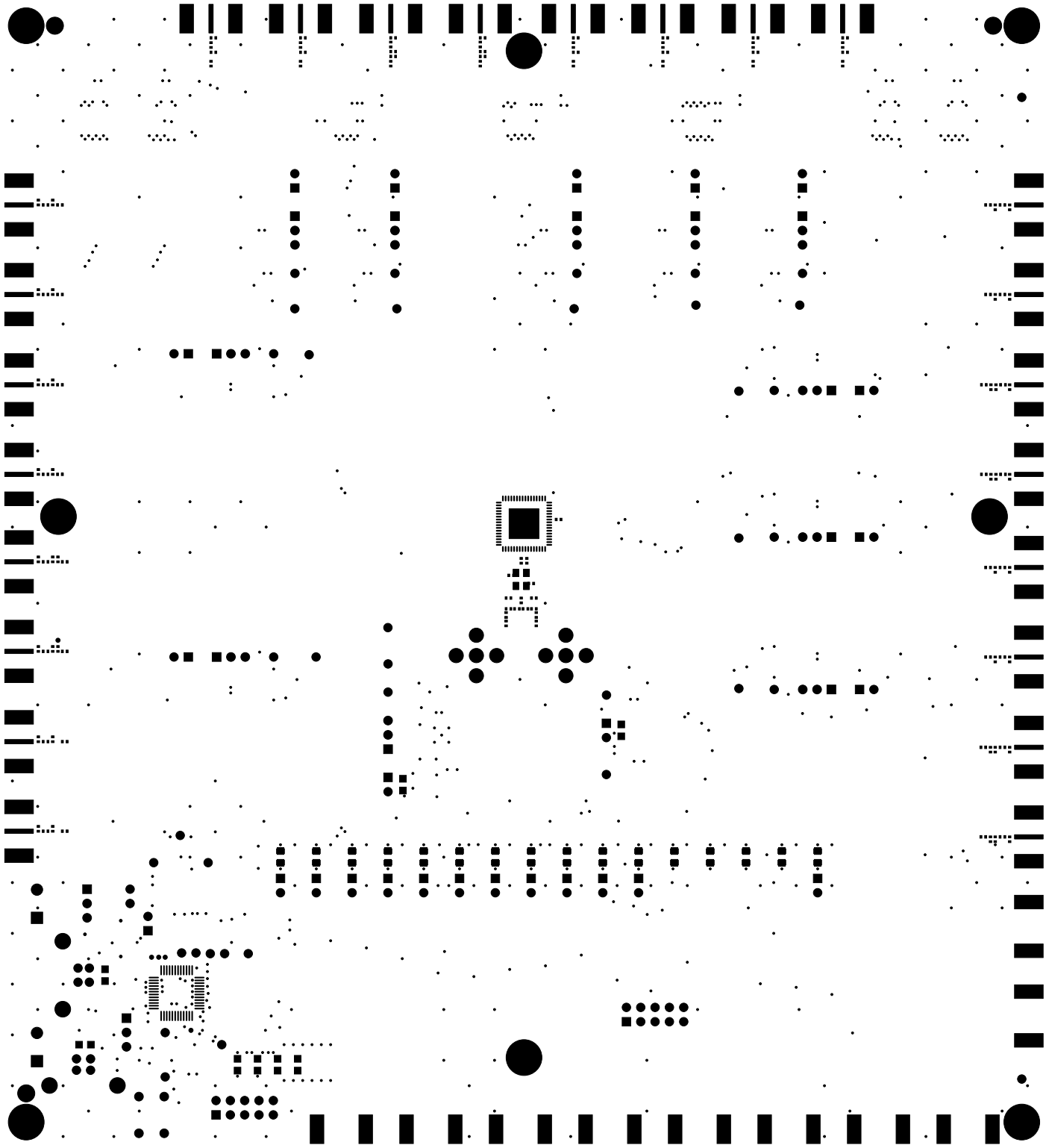

PRIMARY SILKSCREEN
OUT3
OUT3B
OUT2
OUT2B
OUT1
OUT1B
OUT4B
OUT4
OUT5B
OUT5
OUT6B
OUT6
OUT0
OUT0B
SILICON LABS
SiLabs® Si5348-EB REV 1.1
REF_XA
REF_XB
VDD01
VDD02
VDD03
VDD04
VDDO0
VDDO5
VDDO6
VDDS
VDDA
OE1B
FDEC
OE2B
I2C_SEL
LOL_T0B
LOL_T4B
OE0B
LOS2B
RSTB
FINC
INTRB
LOS1B
LOL_AB
LOS0B
SCL_5V
SDA_5V
I2C EN
5VUSB AUX
5VUSB MAIN
3P3V
INTR
READY
BUSY
MCU RST
MCU PROGRAM
A0/CSB
SDA/SDIO
A1/SDO
SCLK
NSS
MOSI
MISO
MCU_SCLK
REF
REFB
IN0
IN0B
IN1
IN1B
IN3
IN4
IN2B
IN2
GND


PRIMARY SILKSCREEN
J19 OUT6
J20 OUT6B
J43 OUT5
J44 OUT5B
J15 OUT4
J16 OUT4B
J13 OUT3
J14 OUT3B
GND
J22 OUT7B
J21 OUT7
J24 OUT8B
J23 OUT8
J46 OUT9B
J45 OUT9
J42 OUT9AB
J41 OUT9A
JP31 ENB
JP32 OPEN 1.8V 3.3V 2.5V
VDDO7 TP20
JP29 ENB
JP30 OPEN 1.8V 3.3V 2.5V
VDDO6 TP19
JP27 ENB
JP28 OPEN 1.8V 3.3V 2.5V
VDDO5 TP18
JP25 ENB
JP26 OPEN 1.8V 3.3V 2.5V
VDDO4 TP17
JP23 ENB
JP24 OPEN 1.8V 3.3V 2.5V
VDDO3 TP16
J11 OUT2
J12 OUT2B
J29 OUT1
J30 OUT1B
J9 OUT0
J10 OUT0B
J27 OUT0A
J28 OUT0AB
SILICON LABS
SiLabs® Si5380-EB REV 2.1
REF_XA J39
REF_XB J40
VDDA TP1
VDDA DUT D23
JP13 ENB
TP23 PIN
TP24 REG
JP38 3.3V 2.5V OPEN 1.8V
JP39 SHDNB
VDD DUT D26
JP34 ENB 3.3V 2.5V OPEN 1.8V
VDDO8 TP21
JP35 ENB
JP36 3.3V 2.5V OPEN 1.8V
VDDO9 TP22
VDDO2 TP15 JP22 2.5V 3.3V OPEN 1.8V JP21 ENB
VDDO1 TP14 JP20 2.5V 3.3V OPEN 1.8V JP19 ENB
VDDO0 TP13 JP18 2.5V 3.3V OPEN 1.8V JP17 ENB
JP1 I2C_EN
JP2 I2C_SEL
JP3 IN_SEL0
JP4 IN_SEL1
JP5 OEB
JP6 PDNB
JP7 RSTB
JP8 SYNCB
JP9 INTRB
JP10 LOLB
JP40
JP41
SCL_5V TP3
SDA_5V TP4
JP15 5VUSB AUX EXT
JP14 I2C EN
TP6 GND
TP5 5VAUX
GND AUX +5V
J35
5VUSB AUX D18
U6
JP16 5VUSB MAIN EXT
D27
TP7 +5V
TP8 GND
GND MAIN +5V
J37
S1 MCU RST
3P3V TP2
D22 3P3V
D25 INTR
D21 READY
D24 BUSY
J38 MCU PROGRAM
J36 A0/CSB SDA/SDIO A1/SDO SCLK GND
NSS MOSI MISO MCU_SCLK GND
IN3
IN3B
IN0
IN0B
IN1
IN1B
IN2B
IN2
GND

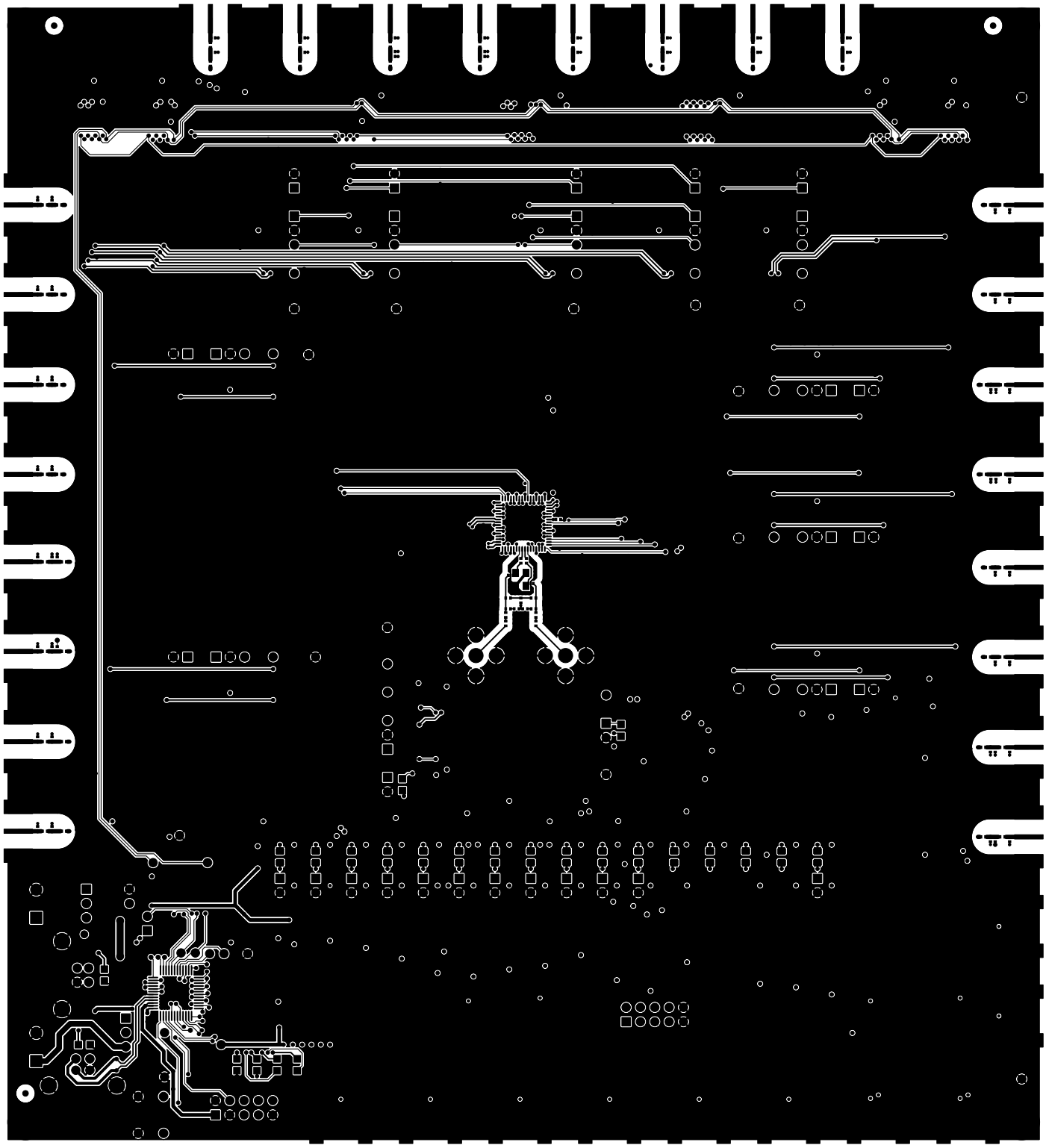

PRIMARY SILKSCREEN
J19 OUT6
J20 OUT6B
J43 OUT5
J44 OUT5B
J15 OUT4
J16 OUT4B
J13 OUT3
J14 OUT3B
GND
J22 OUT7B
J21 OUT7
J24 OUT8B
J23 OUT8
J46 OUT9B
J45 OUT9
J42 OUT9AB
J41 OUT9A
JP31 ENB
JP32 OPEN 1.8V 3.3V 2.5V
VDDO7 TP20
JP29 ENB
JP30 OPEN 1.8V 3.3V 2.5V
VDDO6 TP19
JP27 ENB
JP28 OPEN 1.8V 3.3V 2.5V
VDDO5 TP18
JP25 ENB
JP26 OPEN 1.8V 3.3V 2.5V
VDDO4 TP17
JP23 ENB
JP24 OPEN 1.8V 3.3V 2.5V
VDDO3 TP16
J11 OUT2
J12 OUT2B
J29 OUT1
J30 OUT1B
J9 OUT0
J10 OUT0B
J27 OUT0A
J28 OUT0AB
SILICON LABS
SiLabs® Si5381-EB REV 1.0
JP34 ENB OPEN 1.8V 3.3V 2.5V
VDDO8 TP21
JP35 ENB
JP36 OPEN 1.8V 3.3V 2.5V
VDDO9 TP22
JP22 OPEN 1.8V 2.5V 3.3V
VDDO2 TP15
JP21 ENB
JP20 OPEN 1.8V 2.5V 3.3V
VDDO1 TP14
JP19 ENB
JP18 OPEN 1.8V 2.5V 3.3V
VDDO0 TP13
JP17 ENB
REF_XA J39
REF_XB J40
TP23 PIN
TP24 REG
JP38 OPEN 1.8V 3.3V 2.5V
JP39 SHDNB
VDD DUT
VDDA TP1
JP13 ENB
VDDA DUT
JP1 IN_SEL1
JP2 IN_SEL0
JP3 I2C_SEL
JP4 OEB
JP5 PDNB
JP6 RSTB
JP7 INTRB
JP8
JP9
JP10
JP40
JP41
IN2B
IN2
IN3
IN3B
IN0
IN0B
IN1
IN1B
SCL_5V TP3
SDA_5V TP4
JP15 USB EXT AUX
TP6 GND
TP5 5VAUX
I2C EN JP14
TP9 SDA
TP10 SCL
TP11
TP12 BD_S/N
J35
5VUSB AUX D18
U6
JP16 USB EXT 5V
5VUSB MAIN D27
TP7 +5V
TP8 GND
3P3V TP2
D22 3P3V
D25 INTR
D21 READY
D24 BUSY
S1 MCU RST
J37
J38 MCU PROGRAM
J36 A0/CSB SDA/SDIO A1/SDO SCLK GND
NSS MOSI MISO MCU_SCLK GND
AUX +5V
MAIN +5V


PRIMARY SILKSCREEN
OUT6
OUT6B
OUT5
OUT5B
OUT4
OUT4B
OUT3
OUT3B
GND
OUT7B
OUT7
OUT8B
OUT8
OUT9B
OUT9
OUT9AB
OUT9A
OUT2
OUT2B
OUT1
OUT1B
OUT0
OUT0B
OUT0A
OUT0AB
JP31 ENB
JP29 ENB
JP27 ENB
JP25 ENB
JP23 ENB
OPEN 1.8V
3.3V
2.5V
VDDO7 TP20
VDDO6 TP19
VDDO5 TP18
VDDO4 TP17
VDDO3 TP16
VDDO8 TP21
VDDO9 TP22
VDDO2 TP15
VDDO1 TP14
VDDO0 TP13
SILICON LABS
SiLabs® Si5382-EB REV 1.0
REF_XA
REF_XB
PIN
REG
SHDNB
VDD DUT
VDDA
VDDA DUT
I2C_SEL
IN_SEL0
IN_SEL1
OEB
PDNB
RSTB
INTRB
IN2B
IN2
IN3
IN3B
IN0
IN0B
IN1
IN1B
I2C EN
5VUSB AUX
5VUSB MAIN
EXT USB
+5V
3P3V
INTR
READY
BUSY
MCU RST
MCU PROGRAM
A0/CSB
SDA/SDIO
A1/SDO
SCLK
NSS
MOSI
MISO
MCU_SCLK

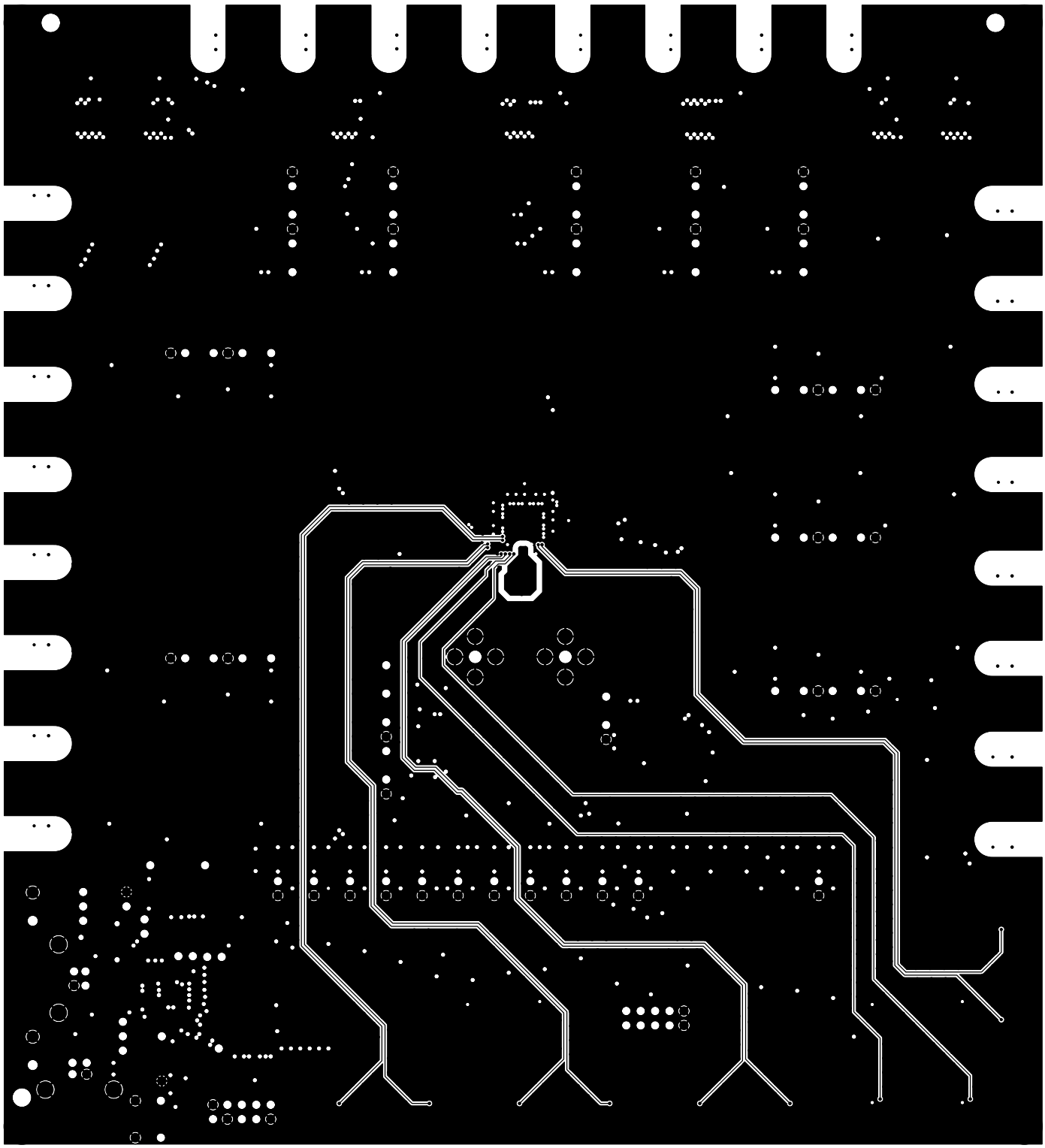
PRIMARY SOLDER MASK



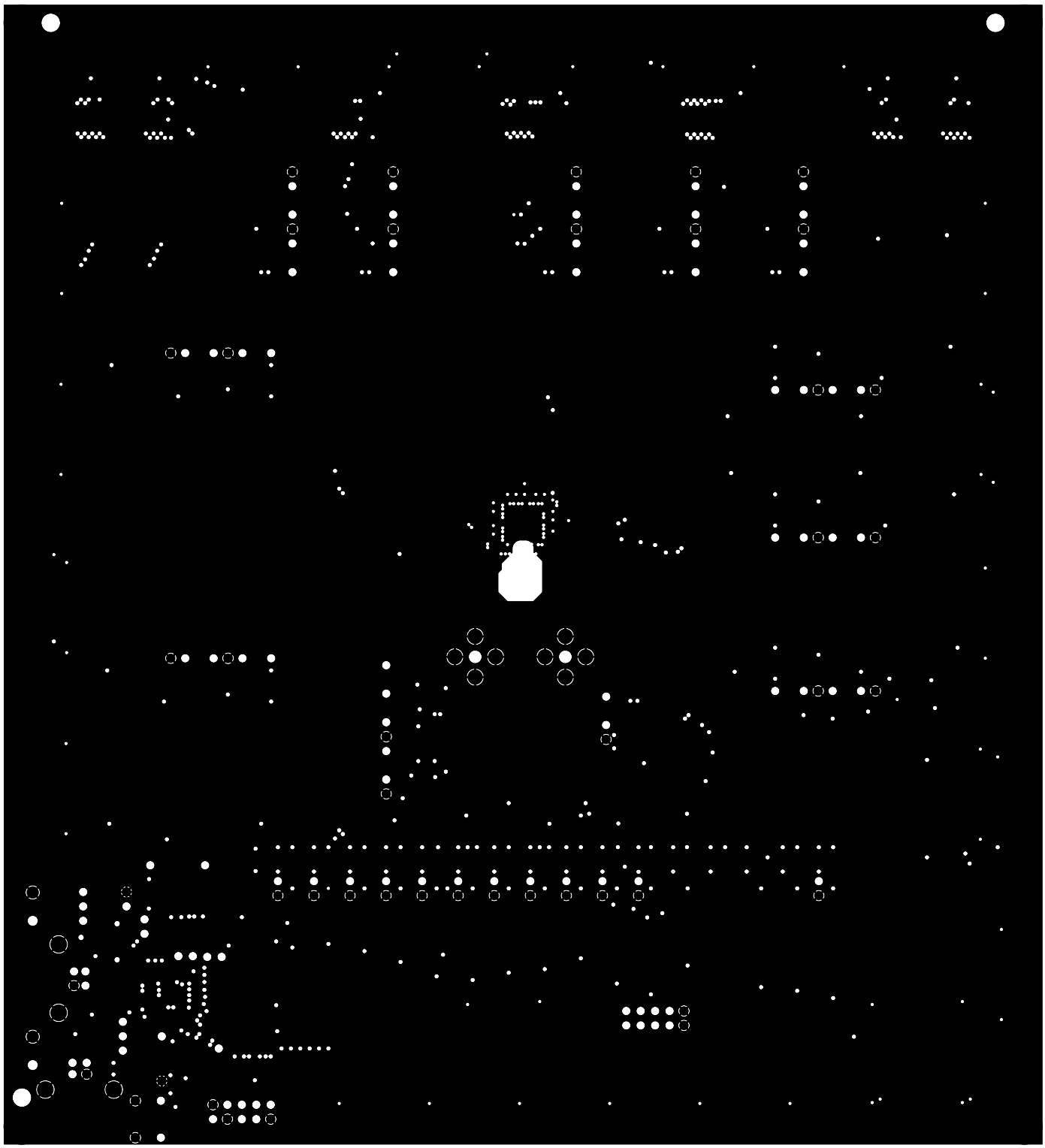
PRIMARY SIDE



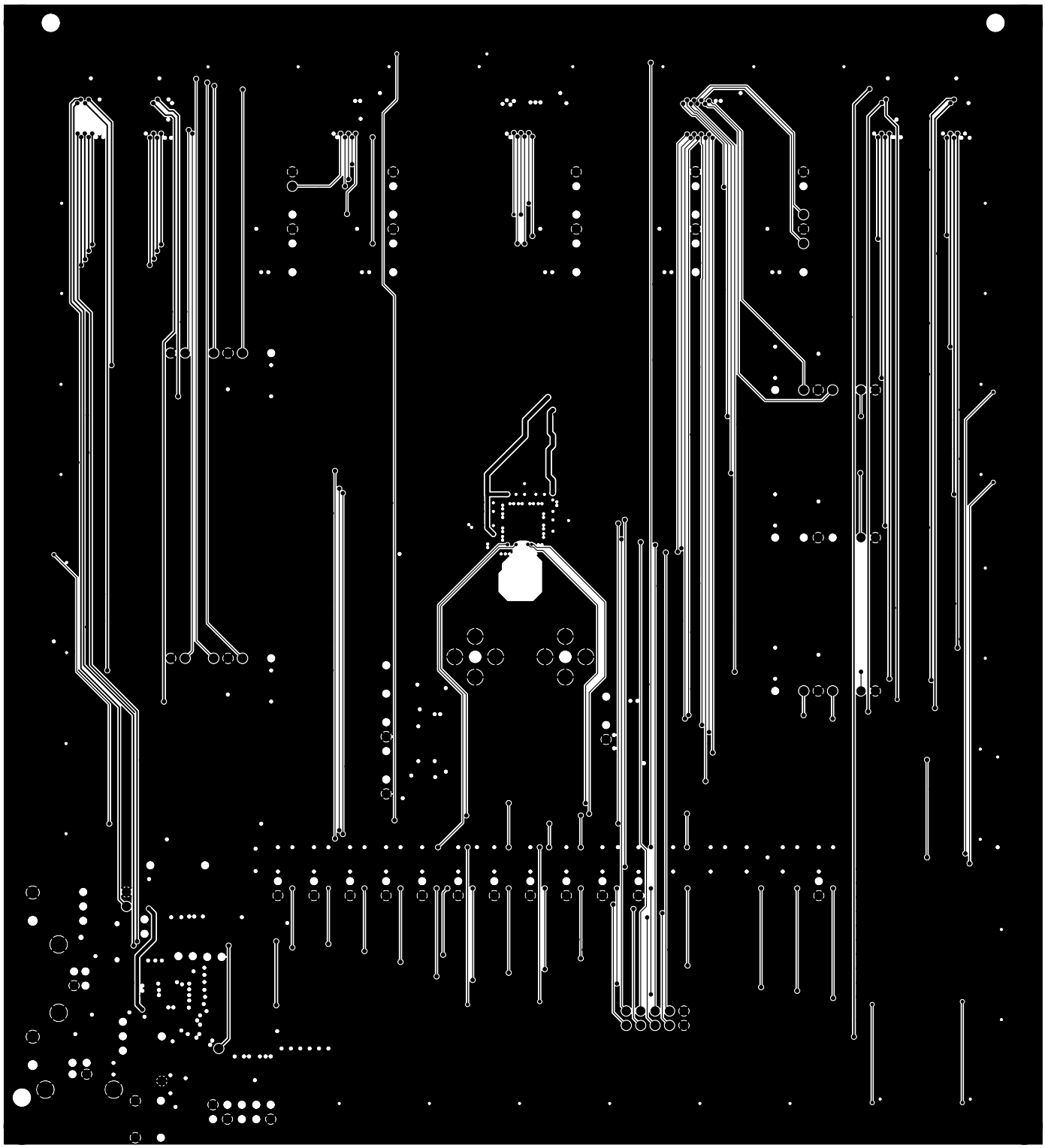
LAYER 02



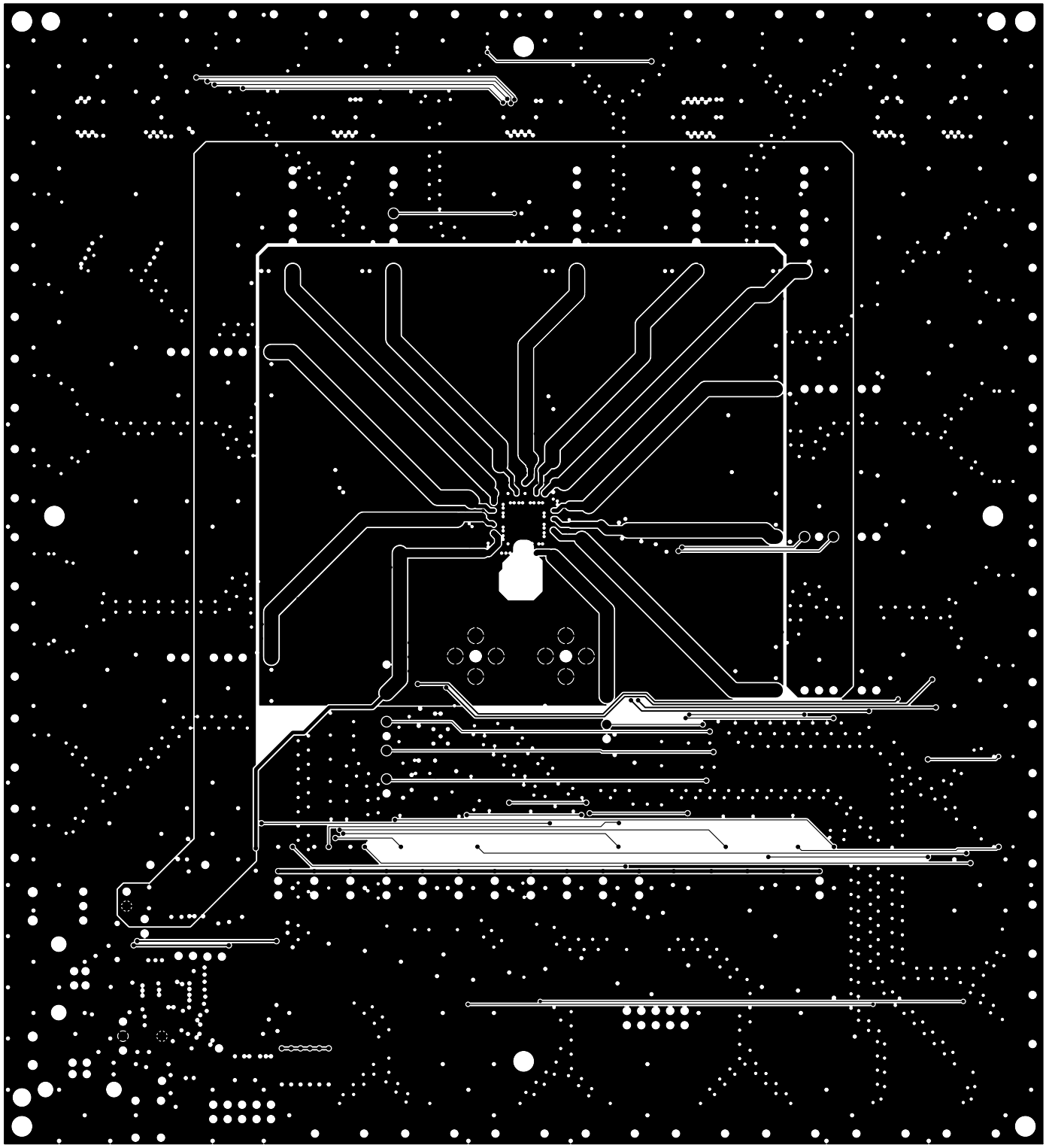
LAYER 03



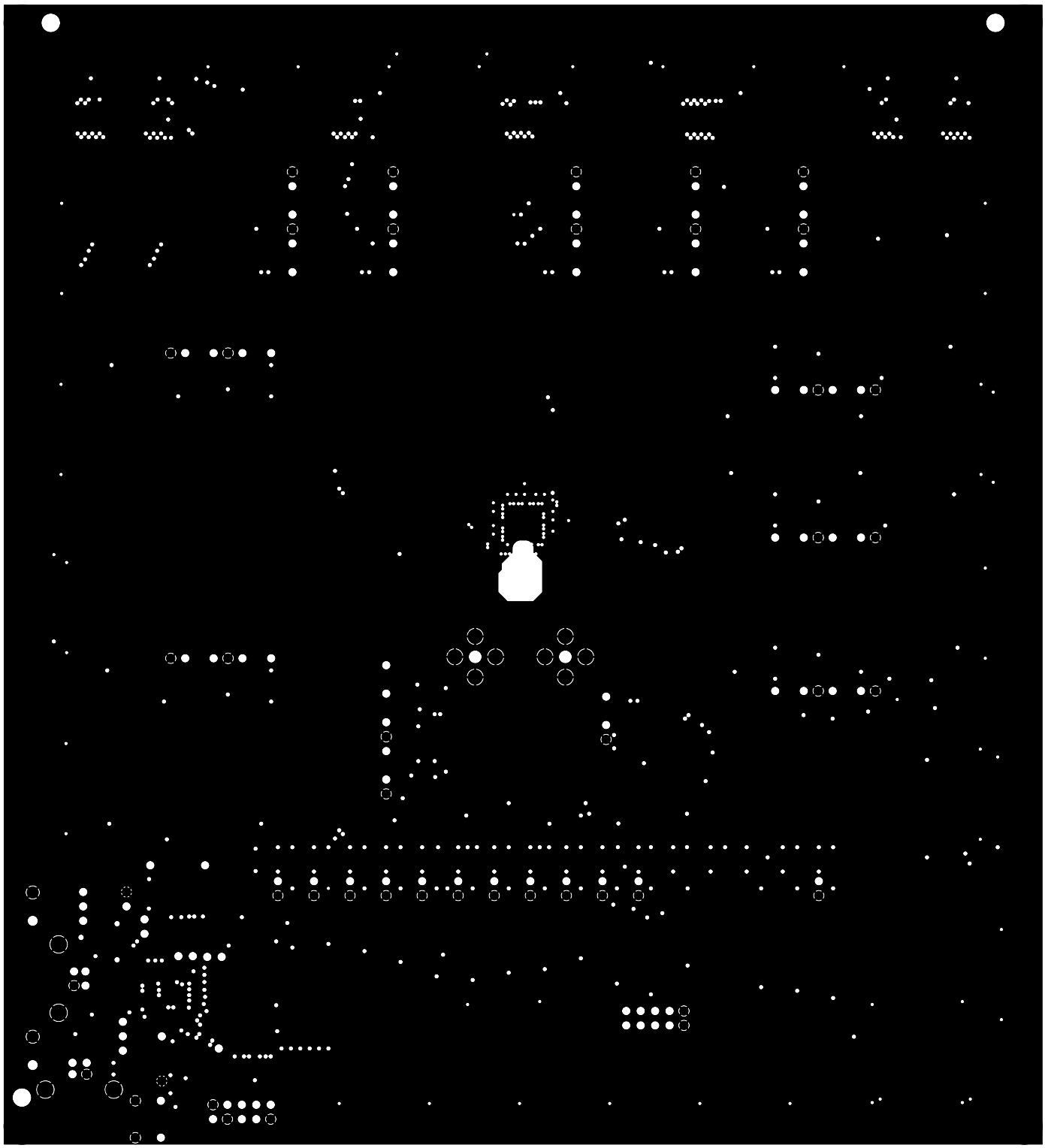
LAYER 04



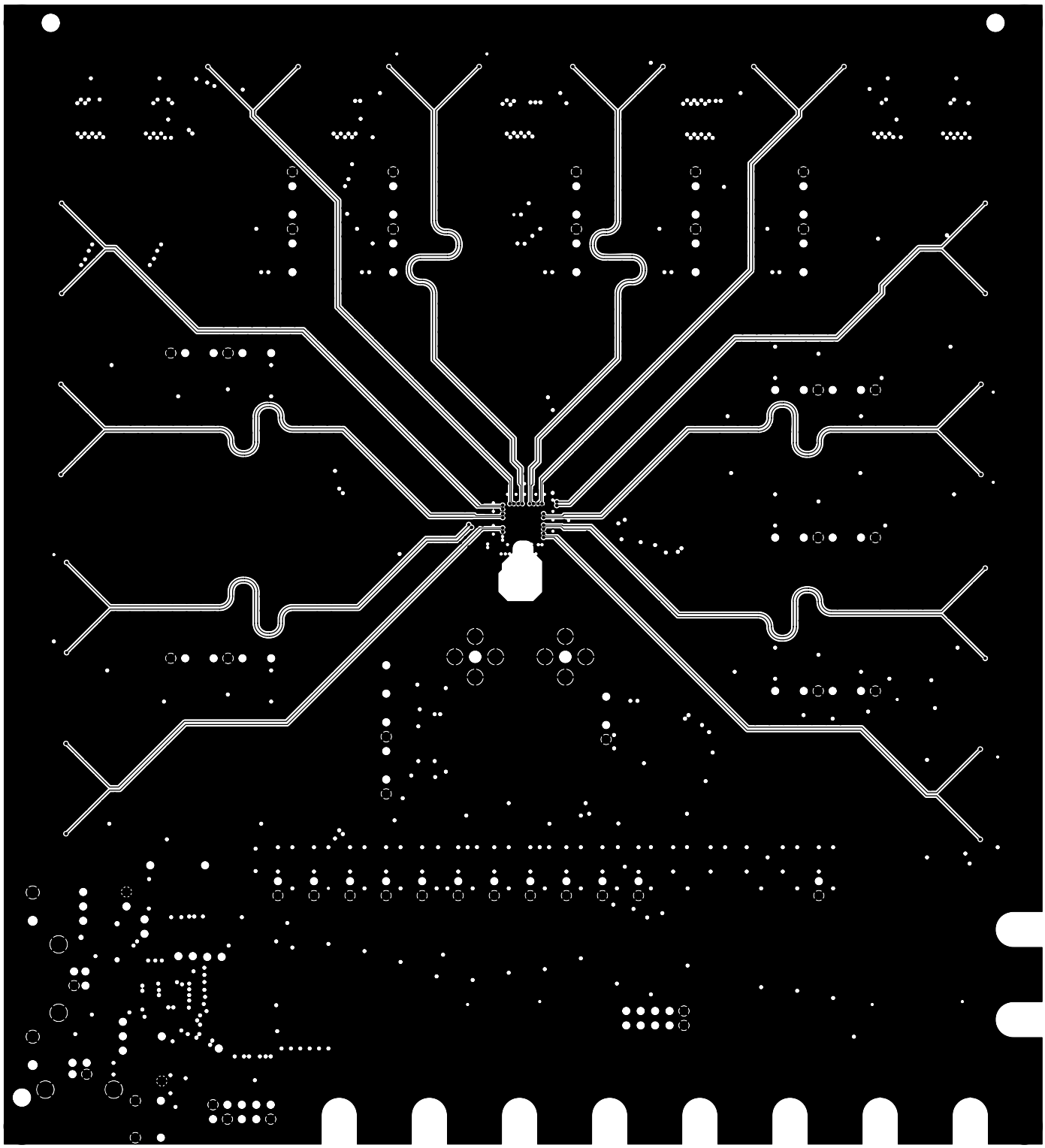
LAYER 05



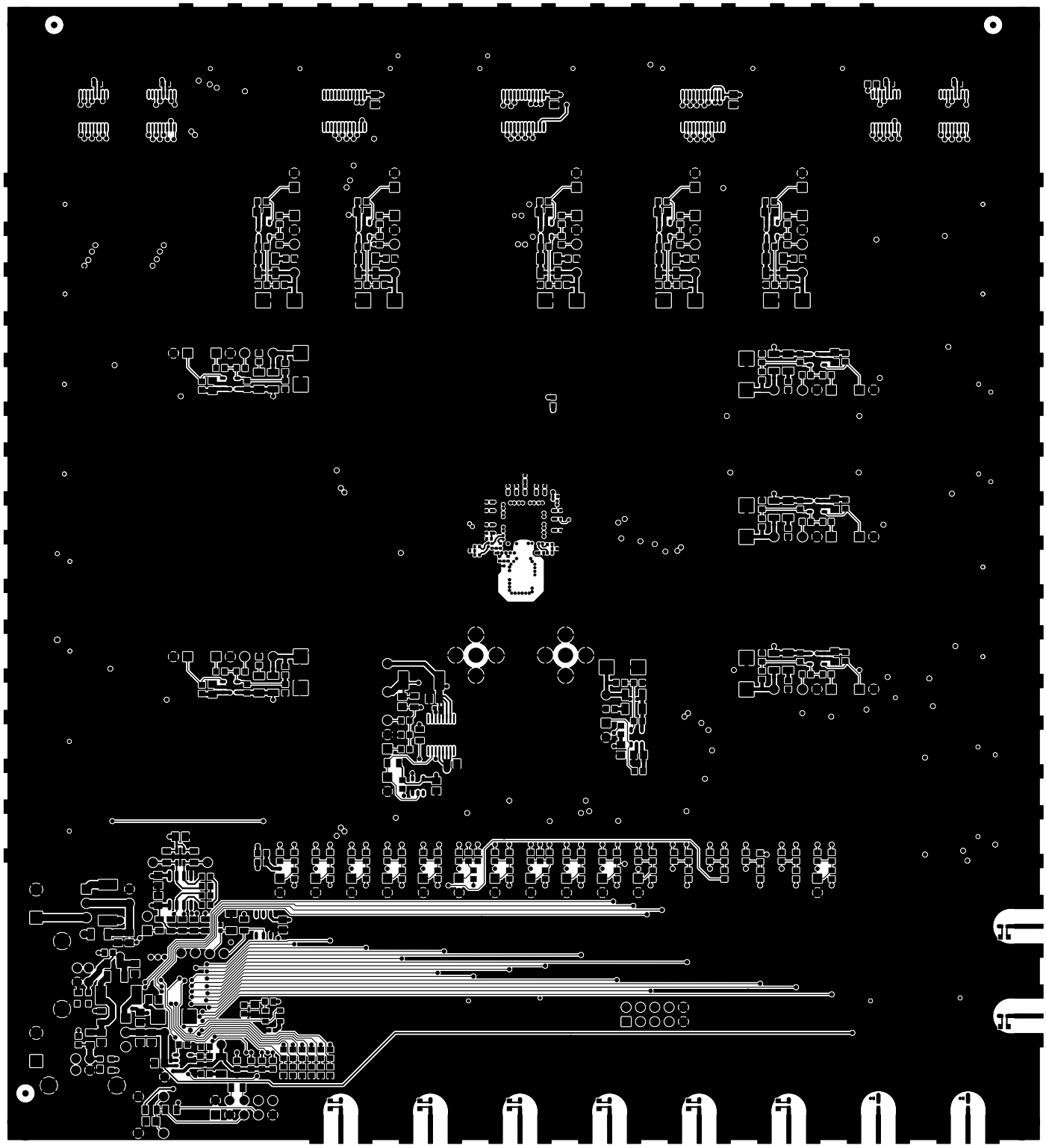
LAYER 06



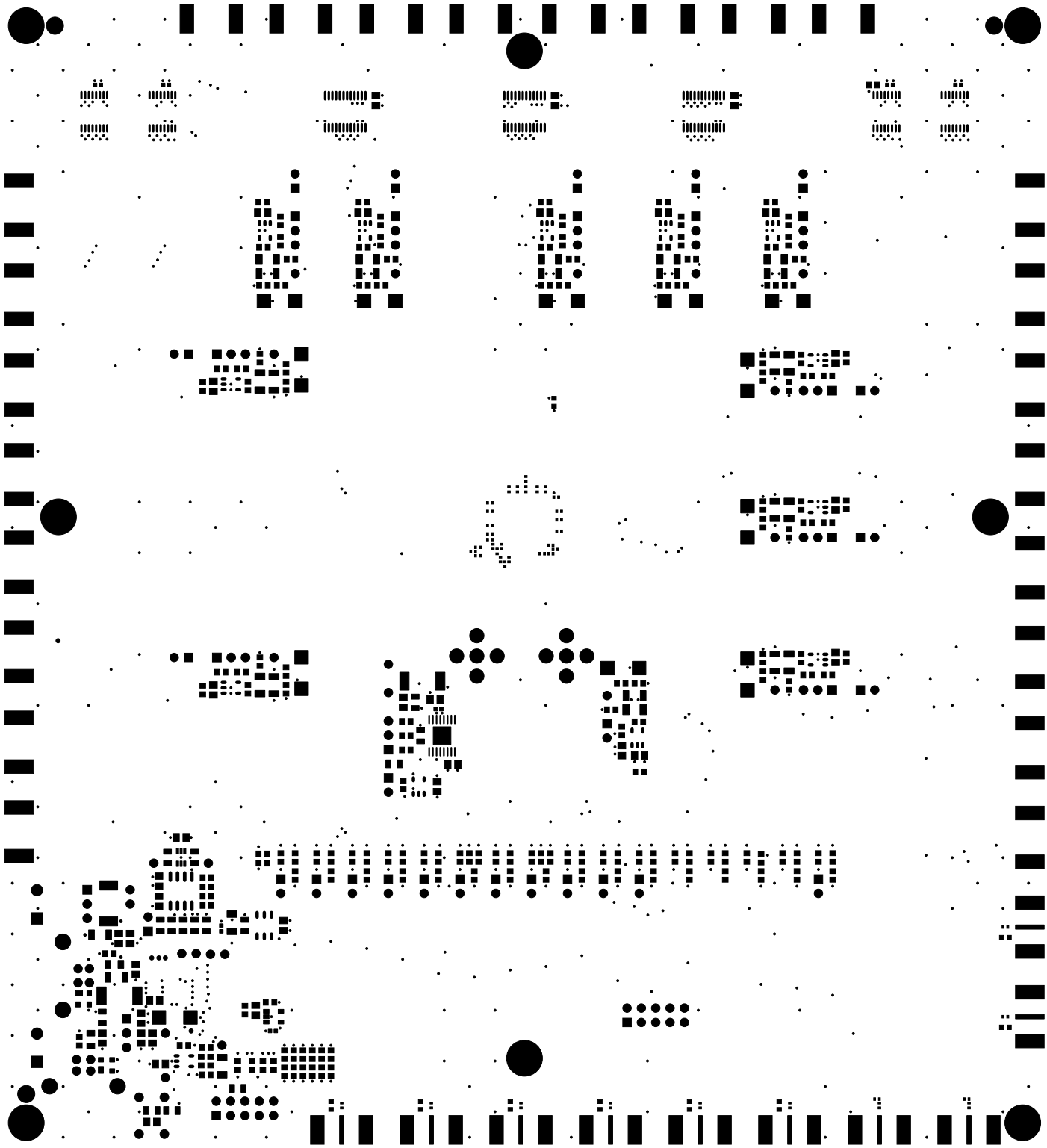
LAYER 07



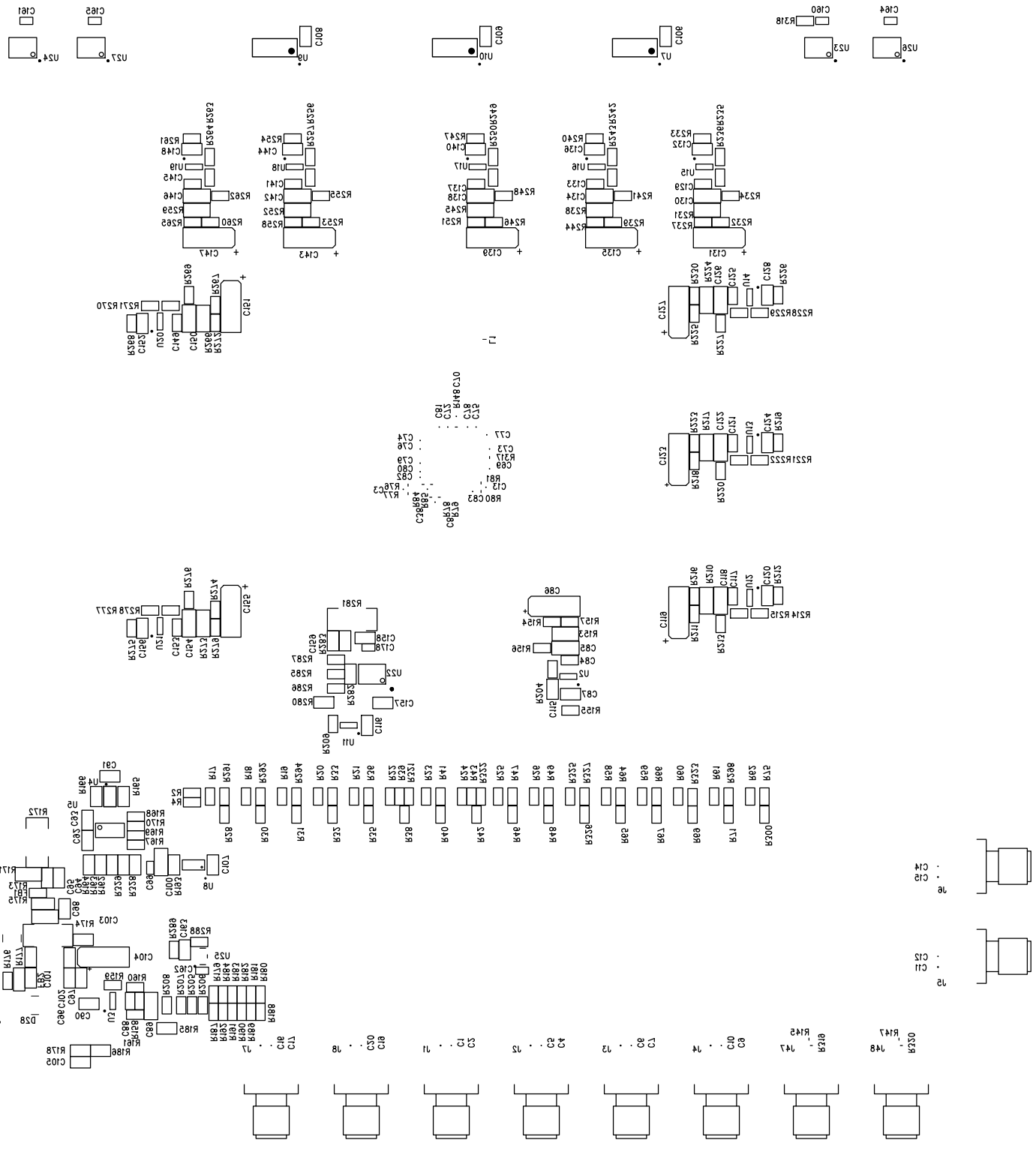
SECONDARY SIDE



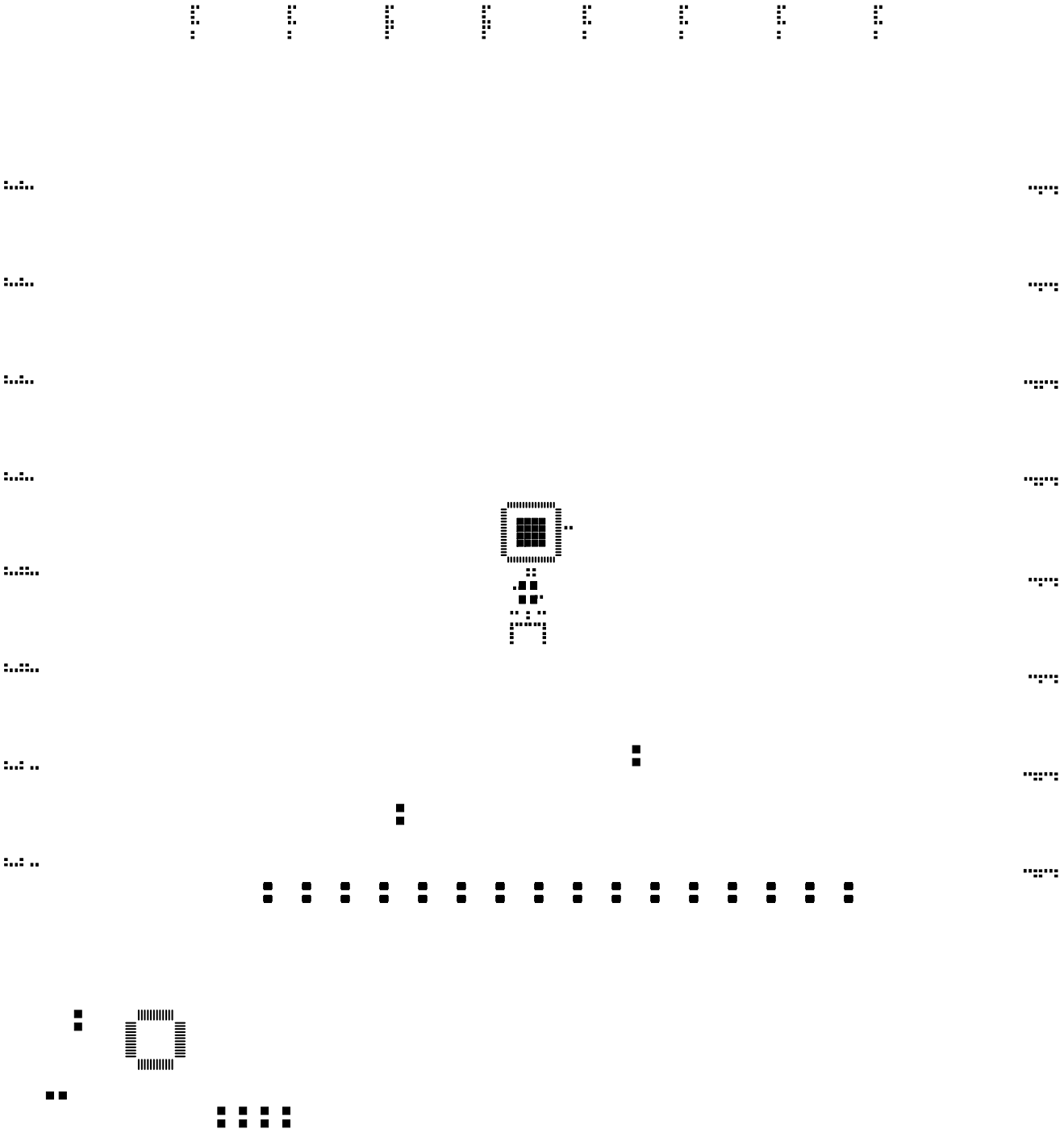
SECONDARY SOLDER MASK



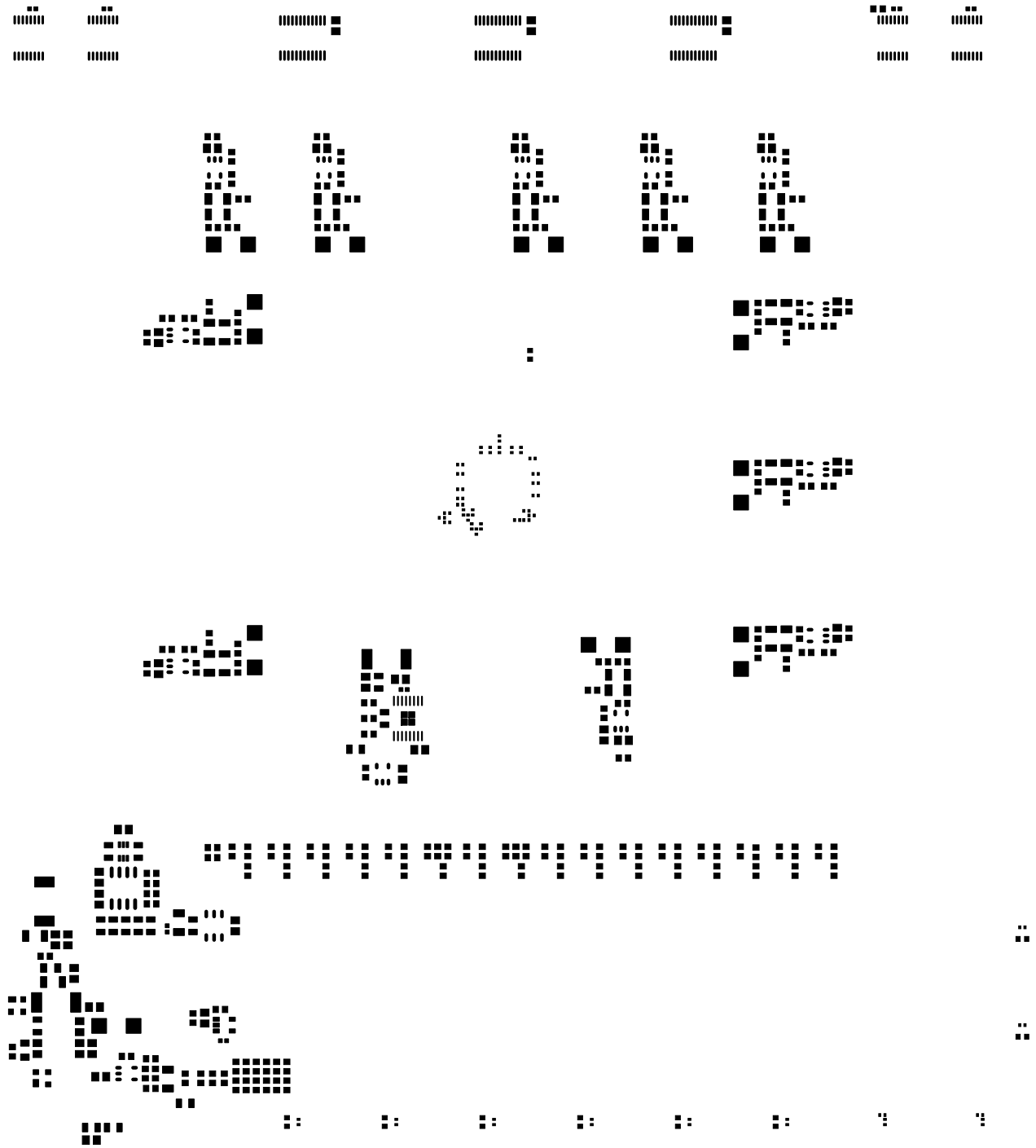
SECONDARY SILKSCREEN

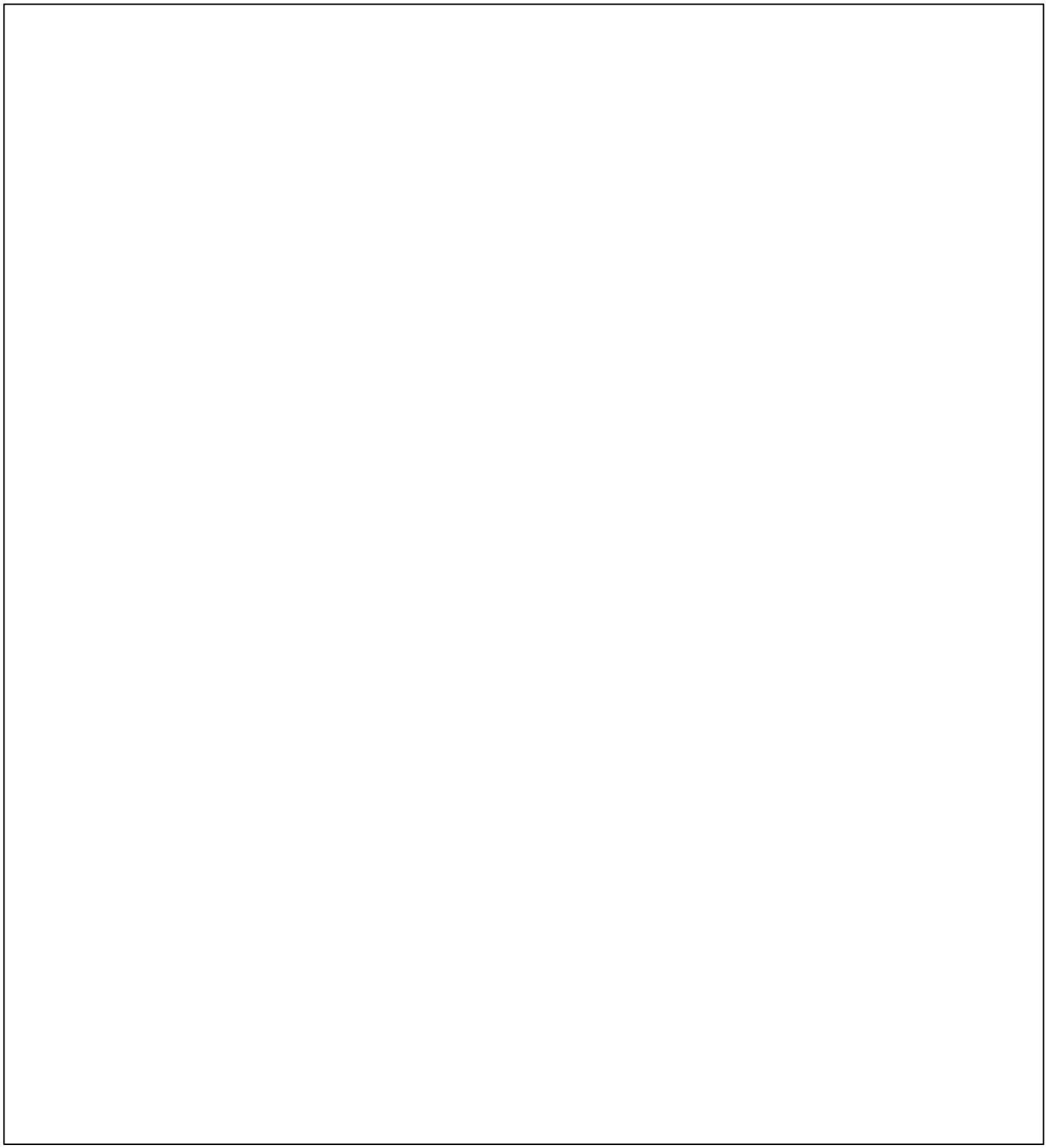


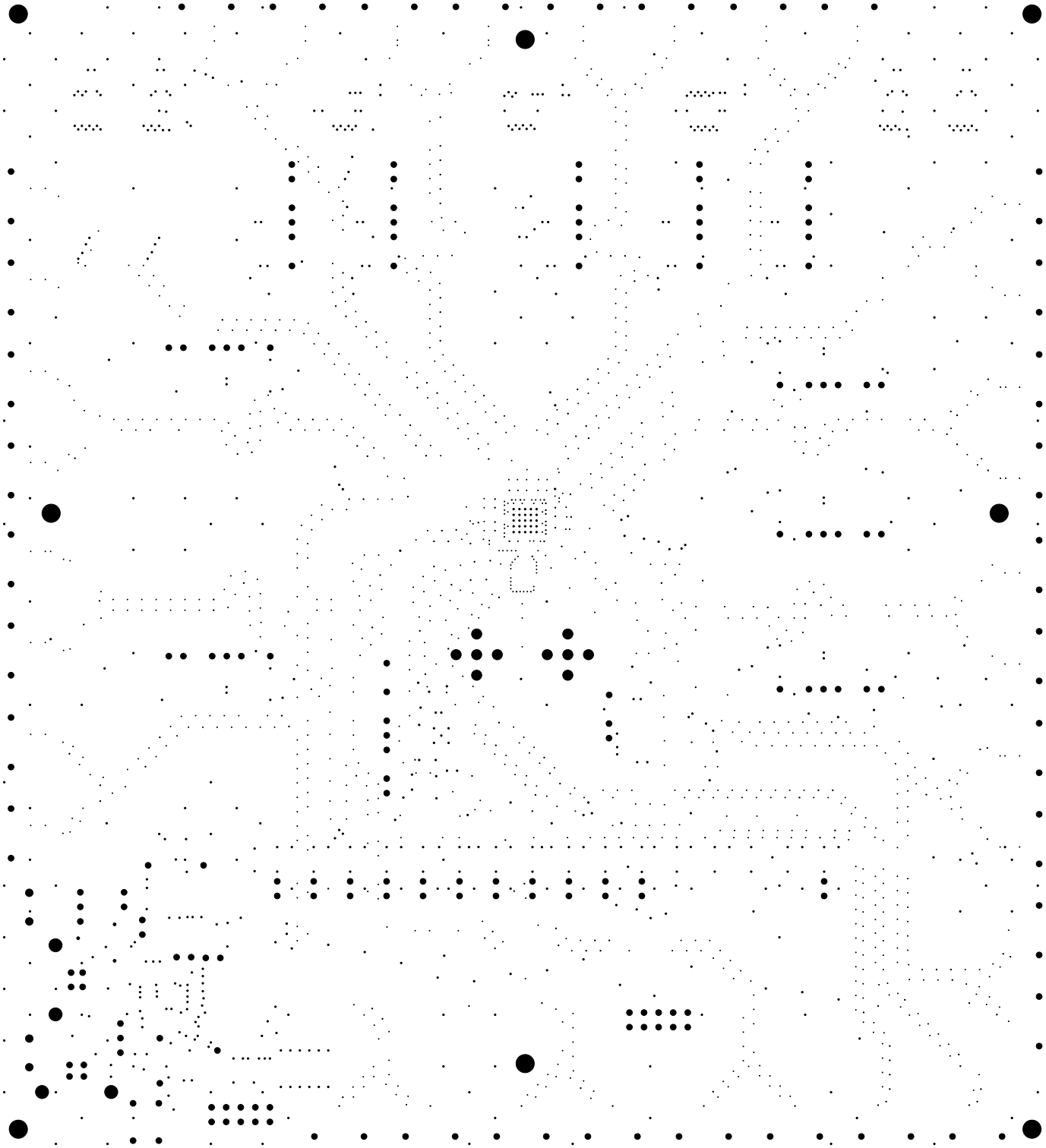
PRIMARY SOLDER PASTE

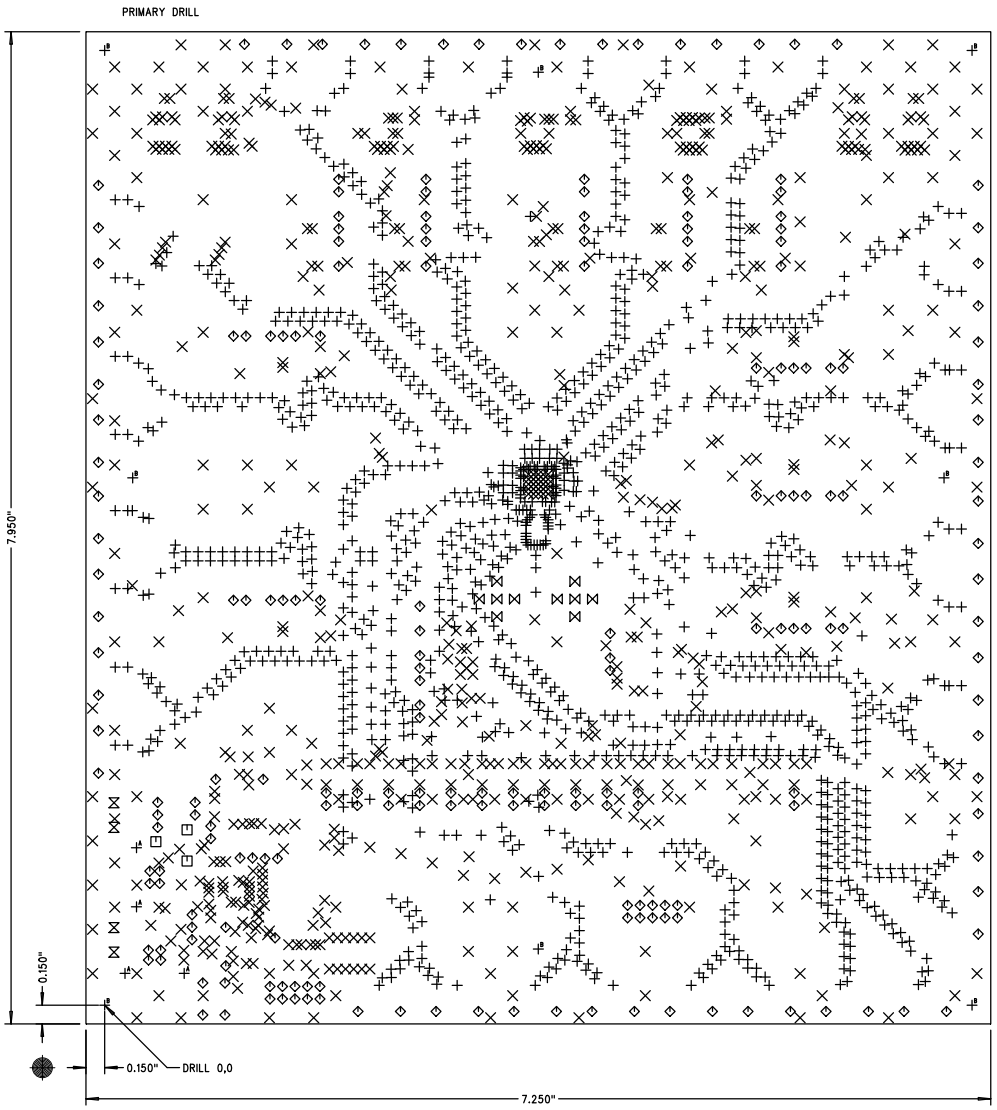


SECONDARY SOLDER PASTE









NOTES : UNLESS OTHERWISE SPECIFIED

1. MANUFACTURE IN ACCORDANCE WITH IPC-6012, TYPE 3, CLASS 2.
2. END PRODUCT FEATURES SHALL NOT VARY MORE THAN 20% FROM ARTWORK ORIGINALS.
3. MATERIAL SHALL BE COPPER CLAD ISOLA FR-406, Dk=3.9 & ISOLA FR-406 PREPREG, Dk=3.9 w/BALANCE OF MATERIAL TO BE COMPATIBLE FR-4 MEETING IPC-4101/26, PER LAYER STACKUP DETAIL.
4. COPPER WEIGHT SHALL BE 0.5 OZ./SQ. FT. BEFORE PLATING.
5. ALL PLATED THROUGH HOLES SHALL HAVE A MINIMUM OF 0.001" COPPER.
6. DRILL HOLE TOLERANCE AFTER PLATING SHALL BE ±0.003".
7. MINIMUM ANNULAR RING SHALL BE 0.001".
8. MINIMUM ANNULAR RING AT EMERGENT CONDUCTORS SHALL BE 0.003".
9. FINAL PCB THICKNESS SHALL BE 0.062" ±10%.
10. WARP/TWIST SHALL NOT EXCEED 1.0%
11. FINISH SHALL BE LPI, BLUE SMOBC, ENIG BOTH SIDES.
12. SILKSCREEN WITH NONCONDUCTIVE WHITE EPOXY INK.
13. INTERNAL 0.175MM TRACES TO BE 50 OHM Zo ±5%.
    EXTERNAL 0.275MM TRACES TO BE 50 OHM Zo. ±5%.
    TOP 0.762MM TRACES TO BE 50 OHM Zo ±5% REF TO L03.
    BOTTOM 0.762MM TRACES TO BE 50 OHM Zo ±5% REF TO L06.
14. VENDOR TO PROVIDE PCB MICRO-SECTION OF COUPON AREA & TDR TEST REPORT.
15. REFERENCE ADDITIONAL FAB NOTES IN FILE README.TXT

LAYER STACKUP	FILE NAMES
PRIMARY SILKSCREEN	534x-EB_PSS.PHO
PRIMARY SOLDERMASK	5345-EB_PSM.PHO
PRIMARY SIDE	5345-EB_PRI.PHO
FR-406 – 7MIL THK	
RF ROUTE/GND	5345-EB_L02.PHO
FR-406 – 7MIL THK	
GROUND PLANE	5345-EB_L03.PHO
FR-4 IPC-4101/26	
DIGITAL ROUTE/GND	5345-EB_L04.PHO
FR-4 IPC-4101/26	
VDDOx, VDDDUT, GND	5345-EB_L05.PHO
FR-4 IPC-4101/26	
GROUND PLANE	5345-EB_L06.PHO
FR-406 – 7MIL THK	
RF ROUTE/GND	5345-EB_L07.PHO
FR-406 – 7MIL THK	
SECONDARY SIDE	5345-EB_SEC.PHO
SECONDARY SOLDERMASK	5345-EB_SSM.PHO
SECONDARY SILKSCREEN	5345-EB_SSS.PHO

0.062" THK

SCALE: NONE

SIZE	QTY	SYM	PLT	TOOL	TOL
0.006	1379	+	P	1	+0/-0.006
0.012	699	X	P	2	+0/-0.012
0.020	3	⊡	P	3	+/-0.003
0.040	213	◇	P	4	+/-0.003
0.052	4	⧖	P	5	+/-0.003
0.070	10	⋈	P	6	+/-0.003
0.091	4	A	P	7	+/-0.003
0.125	8	B	P	8	+/-0.003

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISH
DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS
INTERPRET DRAWING PER MIL-D-1000
TOLERANCES
HOLE TOLERANCES PER 78027
DECIMALS .XX +/- .XXX +/- | ANGLES +/- | SURFACES MICROINCHES
PART TO BE FREE OF BURRS
BREAK EDGES MAX | BEND RADIUS MAX | BEND RELIEF MAX

DESIGN	KS/TT	03NOVP2014
LAYOUT	CT	04NOVP2014

DO NOT SCALE DRAWING

COMPANY: SILICON LABS
400 W CESAR CHAVEZ ST.
AUSTIN, TX 78701
(512)416-8500
www.silabs.com

NAME: Si534x-EB64 REV : 2.1

SIZE B | PART NUMBER: .

SCALE 1:1 | FABRICATION DRAWING | SHEET 1 OF 1