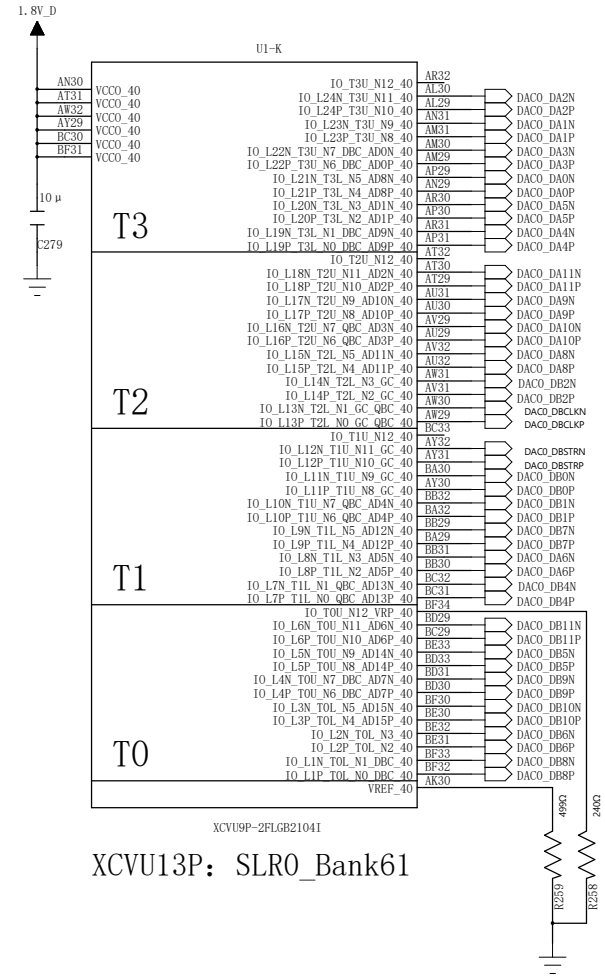
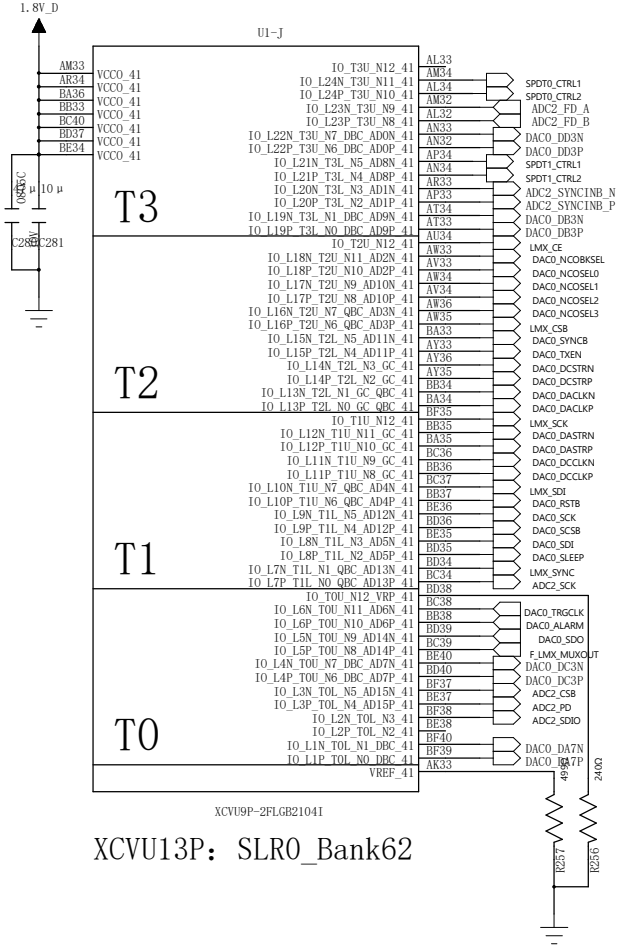


XCVU13P：SLR0_Bank61



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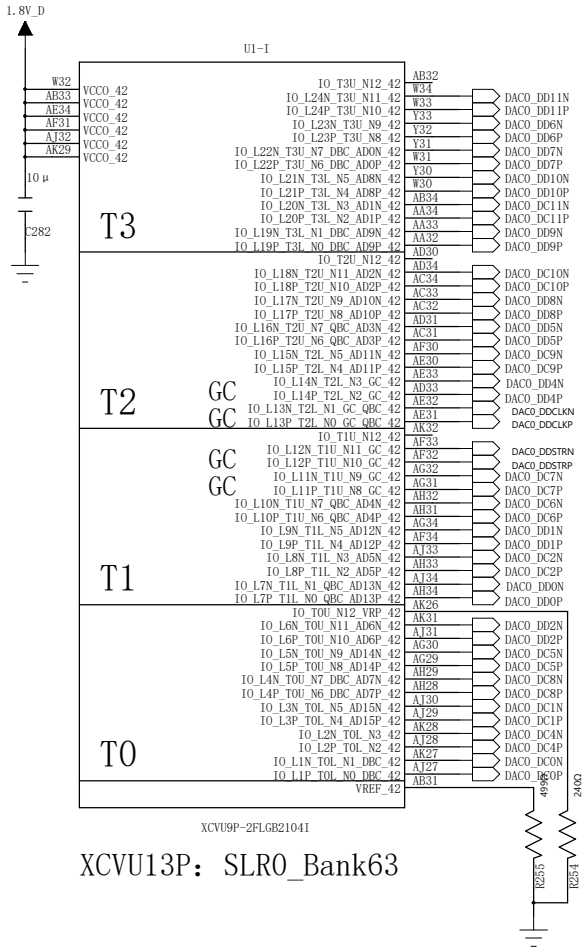

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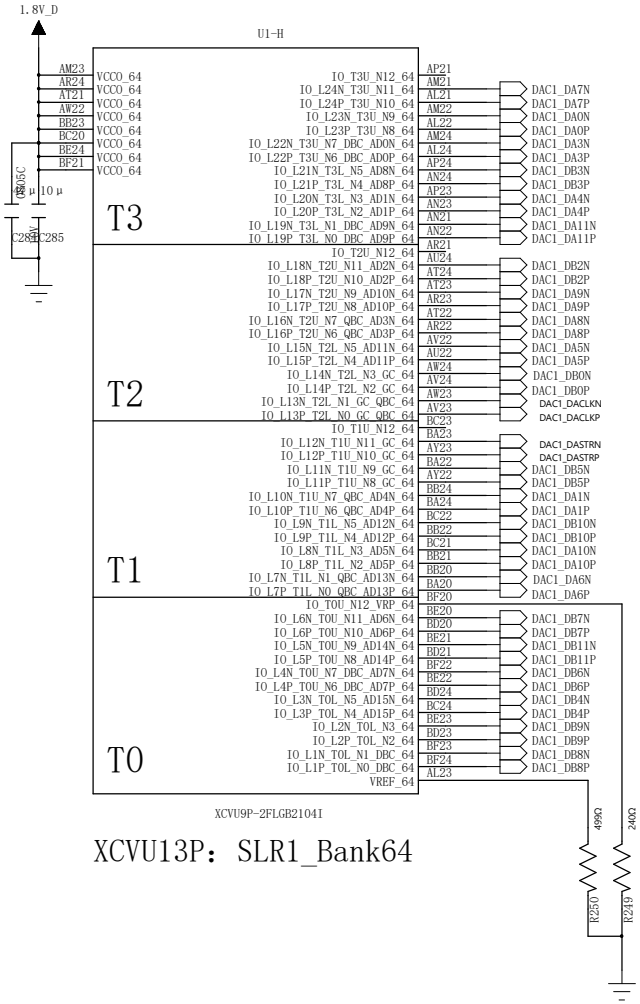

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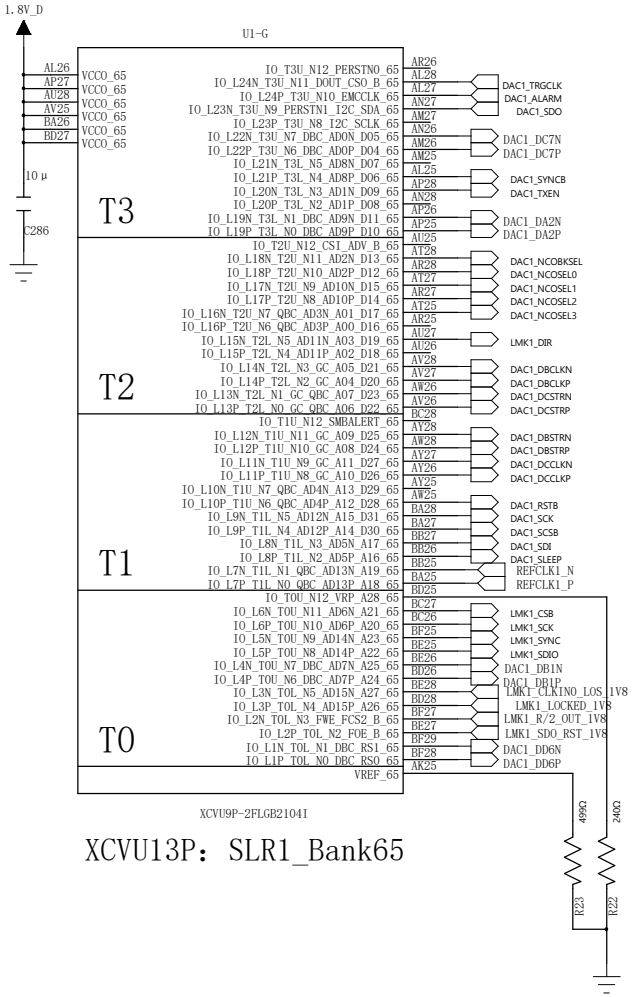
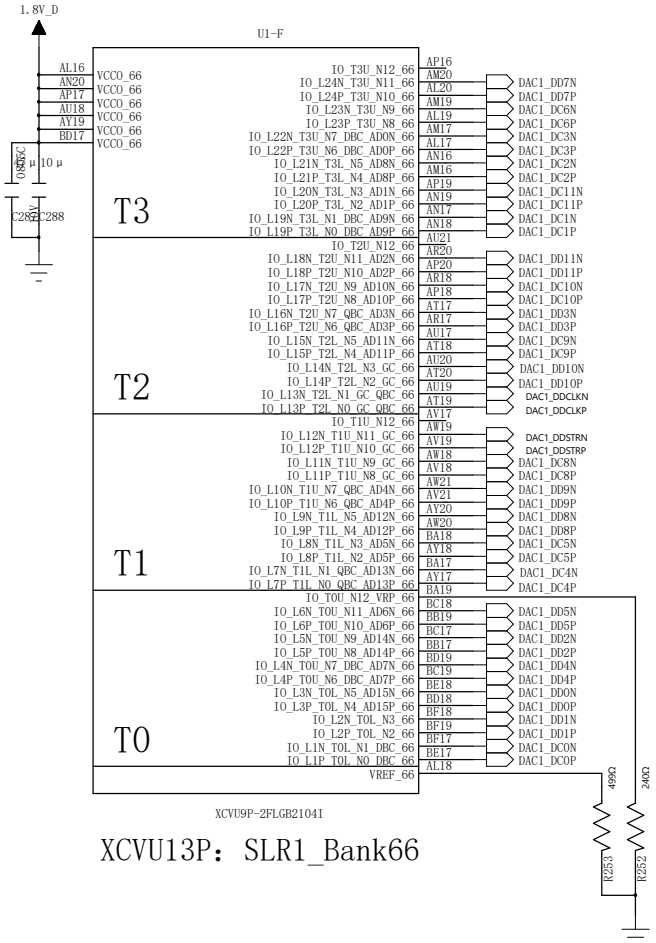
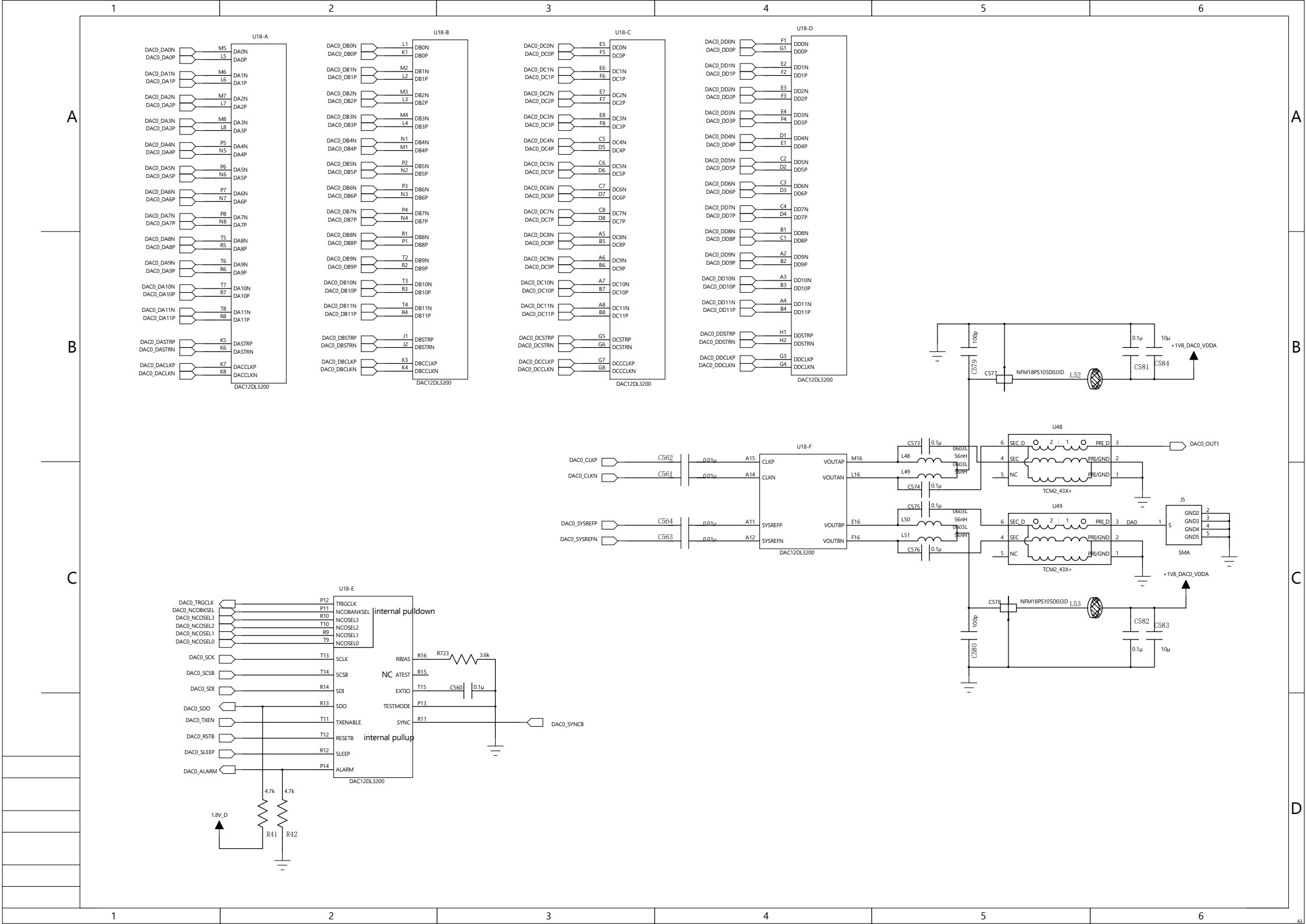
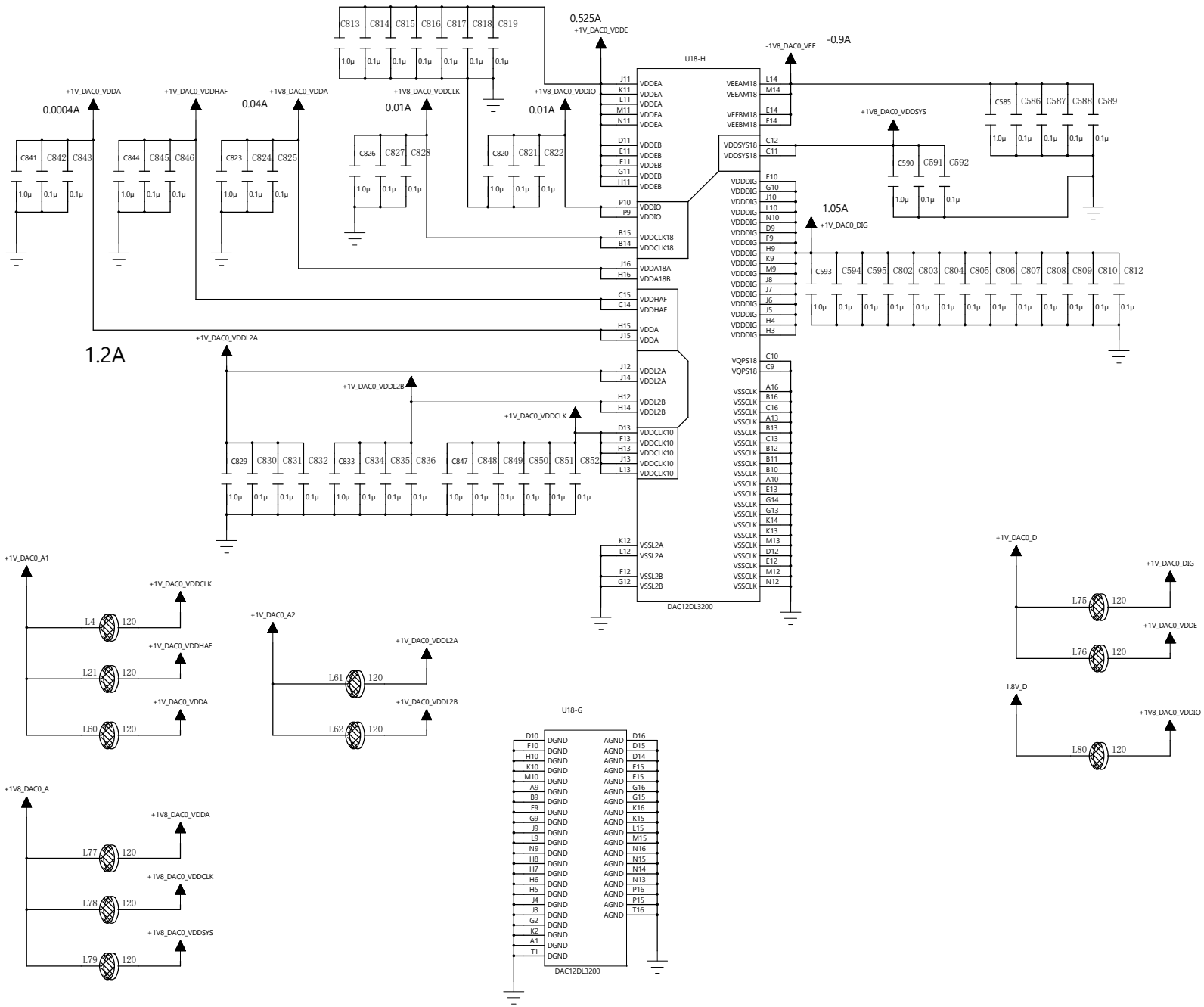


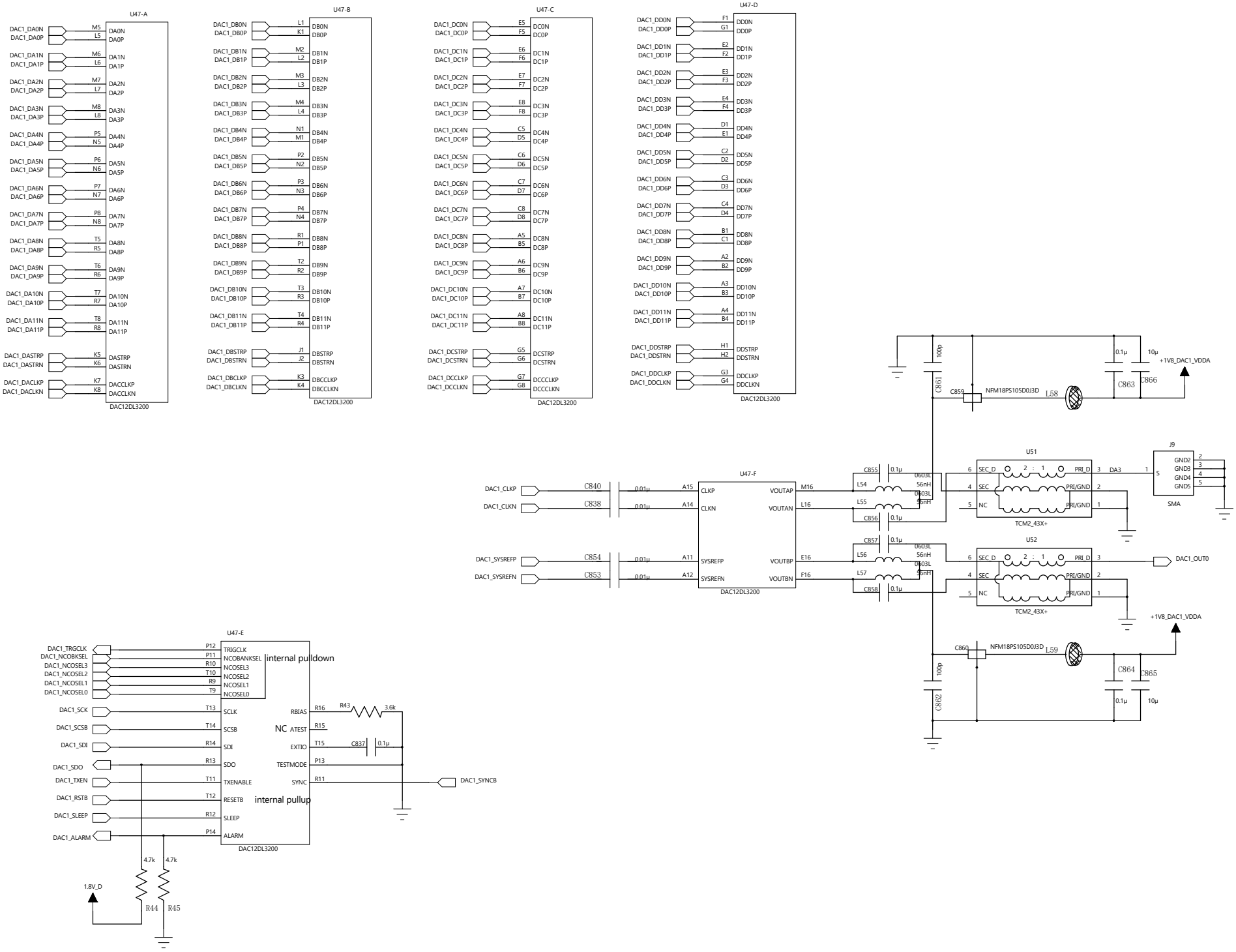
XCVU13P：SLR1_Bank65



XCVU13P：SLR1_Bank66


U18-A
DAC0_DA0N
DAC0_DA0P
M5
L5
DA0N
DA0P
DAC0_DA1N
DAC0_DA1P
M6
L6
DA1N
DA1P
DAC0_DA2N
DAC0_DA2P
M7
L7
DA2N
DA2P
DAC0_DA3N
DAC0_DA3P
M8
L8
DA3N
DA3P
DAC0_DA4N
DAC0_DA4P
P5
N5
DA4N
DA4P
DAC0_DA5N
DAC0_DA5P
P6
N6
DA5N
DA5P
DAC0_DA6N
DAC0_DA6P
P7
N7
DA6N
DA6P
DAC0_DA7N
DAC0_DA7P
P8
N8
DA7N
DA7P
DAC0_DA8N
DAC0_DA8P
T5
R5
DA8N
DA8P
DAC0_DA9N
DAC0_DA9P
T6
R6
DA9N
DA9P
DAC0_DA10N
DAC0_DA10P
T7
R7
DA10N
DA10P
DAC0_DA11N
DAC0_DA11P
T8
R8
DA11N
DA11P
DAC0_DASTRP
DAC0_DASTRN
K5
K6
DASTRP
DASTRN
DAC0_DACLKP
DAC0_DACLKN
K7
K8
DACCLKP
DACCLKN
DAC12DL3200
U18-B
DAC0_DB0N
DAC0_DB0P
L1
K1
DB0N
DB0P
DAC0_DB1N
DAC0_DB1P
M2
L2
DB1N
DB1P
DAC0_DB2N
DAC0_DB2P
M3
L3
DB2N
DB2P
DAC0_DB3N
DAC0_DB3P
M4
L4
DB3N
DB3P
DAC0_DB4N
DAC0_DB4P
N1
M1
DB4N
DB4P
DAC0_DB5N
DAC0_DB5P
P2
N2
DB5N
DB5P
DAC0_DB6N
DAC0_DB6P
P3
N3
DB6N
DB6P
DAC0_DB7N
DAC0_DB7P
P4
N4
DB7N
DB7P
DAC0_DB8N
DAC0_DB8P
R1
P1
DB8N
DB8P
DAC0_DB9N
DAC0_DB9P
T2
R2
DB9N
DB9P
DAC0_DB10N
DAC0_DB10P
T3
R3
DB10N
DB10P
DAC0_DB11N
DAC0_DB11P
T4
R4
DB11N
DB11P
DAC0_DBSTRP
DAC0_DBSTRN
J1
J2
DBSTRP
DBSTRN
DAC0_DBCLKP
DAC0_DBCLKN
K3
K4
DBCCLKP
DBCCLKN
DAC12DL3200
U18-C
DAC0_DC0N
DAC0_DC0P
E5
F5
DC0N
DC0P
DAC0_DC1N
DAC0_DC1P
E6
F6
DC1N
DC1P
DAC0_DC2N
DAC0_DC2P
E7
F7
DC2N
DC2P
DAC0_DC3N
DAC0_DC3P
E8
F8
DC3N
DC3P
DAC0_DC4N
DAC0_DC4P
C5
D5
DC4N
DC4P
DAC0_DC5N
DAC0_DC5P
C6
D6
DC5N
DC5P
DAC0_DC6N
DAC0_DC6P
C7
D7
DC6N
DC6P
DAC0_DC7N
DAC0_DC7P
C8
D8
DC7N
DC7P
DAC0_DC8N
DAC0_DC8P
A5
B5
DC8N
DC8P
DAC0_DC9N
DAC0_DC9P
A6
B6
DC9N
DC9P
DAC0_DC10N
DAC0_DC10P
A7
B7
DC10N
DC10P
DAC0_DC11N
DAC0_DC11P
A8
B8
DC11N
DC11P
DAC0_DCSTRP
DAC0_DCSTRN
G5
G6
DCSTRP
DCSTRN
DAC0_DCCLKP
DAC0_DCCLKN
G7
G8
DCCCLKP
DCCCLKN
DAC12DL3200
U18-D
DAC0_DD0N
DAC0_DD0P
F1
G1
DD0N
DD0P
DAC0_DD1N
DAC0_DD1P
E2
F2
DD1N
DD1P
DAC0_DD2N
DAC0_DD2P
E3
F3
DD2N
DD2P
DAC0_DD3N
DAC0_DD3P
E4
F4
DD3N
DD3P
DAC0_DD4N
DAC0_DD4P
D1
E1
DD4N
DD4P
DAC0_DD5N
DAC0_DD5P
C2
D2
DD5N
DD5P
DAC0_DD6N
DAC0_DD6P
C3
D3
DD6N
DD6P
DAC0_DD7N
DAC0_DD7P
C4
D4
DD7N
DD7P
DAC0_DD8N
DAC0_DD8P
B1
C1
DD8N
DD8P
DAC0_DD9N
DAC0_DD9P
A2
B2
DD9N
DD9P
DAC0_DD10N
DAC0_DD10P
A3
B3
DD10N
DD10P
DAC0_DD11N
DAC0_DD11P
A4
B4
DD11N
DD11P
DAC0_DDSTRP
DAC0_DDSTRN
H1
H2
DDSTRP
DDSTRN
DAC0_DDCLKP
DAC0_DDCLKN
G3
G4
DDCLKP
DDCLKN
DAC12DL3200
U18-E
DAC0_TRGCLK
DAC0_NCOBKSEL
DAC0_NCOSEL3
DAC0_NCOSEL2
DAC0_NCOSEL1
DAC0_NCOSEL0
P12
P11
R10
T10
R9
T9
TRIGCLK
NCOBANKSEL
NCOSEL3
NCOSEL2
NCOSEL1
NCOSEL0
internal pulldown
DAC0_SCK
DAC0_SCSB
DAC0_SDI
DAC0_SDO
DAC0_TXEN
DAC0_RSTB
DAC0_SLEEP
DAC0_ALARM
T13
T14
R14
R13
T11
T12
R12
P14
SCLK
SCSB
SDI
SDO
TXENABLE
RESETB
SLEEP
ALARM
internal pullup
RBIAS
R16
R723
3.6k
NC
ATEST
R15
EXTIO
T15
C560
0.1µ
TESTMODE
P13
SYNC
R11
DAC0_SYNCB
DAC12DL3200
4.7k
4.7k
1.8V_D
R41
R42
U18-F
DAC0_CLKP
DAC0_CLKN
C562
C561
0.01µ
A15
A14
CLKP
CLKN
VOUTAP
VOUTAN
M16
L16
DAC0_SYSREFP
DAC0_SYSREFN
C564
C563
A11
A12
SYSREFP
SYSREFN
VOUTBP
VOUTBN
E16
F16
DAC12DL3200
C573
L48
C574
C575
L50
C576
L49
L51
0.1µ
0603L
56nH
U48
U49
SEC_D
SEC
NC
PRI_D
PRI/GND
TCM2_43X+
DAC0_OUT1
DA0
J5
GND2
GND3
GND4
GND5
S
SMA
C577
C578
C579
C580
C581
C582
C583
C584
100p
10µ
NFM18PS105D0J3D
L52
L53
+1V8_DAC0_VDDA


0.525A
+1V_DAC0_VDDE
-0.9A
-1V8_DAC0_VEE
U18-H
+1V_DAC0_VDDA
+1V_DAC0_VDDHAF
+1V8_DAC0_VDDA
+1V8_DAC0_VDDCLK
+1V8_DAC0_VDDIO
0.0004A
0.04A
0.01A
0.01A
+1V8_DAC0_VDDSYS
1.05A
+1V_DAC0_DIG
1.2A
+1V_DAC0_VDDL2A
+1V_DAC0_VDDL2B
+1V_DAC0_VDDCLK
DAC12DL3200
+1V_DAC0_A1
+1V_DAC0_A2
+1V8_DAC0_A
+1V_DAC0_D
1.8V_D
U18-G
DAC12DL3200


U47-A
DAC1_DA0N
DAC1_DA0P
M5
L5
DA0N
DA0P
DAC1_DA1N
DAC1_DA1P
M6
L6
DA1N
DA1P
DAC1_DA2N
DAC1_DA2P
M7
L7
DA2N
DA2P
DAC1_DA3N
DAC1_DA3P
M8
L8
DA3N
DA3P
DAC1_DA4N
DAC1_DA4P
P5
N5
DA4N
DA4P
DAC1_DA5N
DAC1_DA5P
P6
N6
DA5N
DA5P
DAC1_DA6N
DAC1_DA6P
P7
N7
DA6N
DA6P
DAC1_DA7N
DAC1_DA7P
P8
N8
DA7N
DA7P
DAC1_DA8N
DAC1_DA8P
T5
R5
DA8N
DA8P
DAC1_DA9N
DAC1_DA9P
T6
R6
DA9N
DA9P
DAC1_DA10N
DAC1_DA10P
T7
R7
DA10N
DA10P
DAC1_DA11N
DAC1_DA11P
T8
R8
DA11N
DA11P
DAC1_DASTRP
DAC1_DASTRN
K5
K6
DASTRP
DASTRN
DAC1_DACLKP
DAC1_DACLKN
K7
K8
DACCLKP
DACCLKN
DAC12DL3200
U47-B
DAC1_DB0N
DAC1_DB0P
L1
K1
DB0N
DB0P
DAC1_DB1N
DAC1_DB1P
M2
L2
DB1N
DB1P
DAC1_DB2N
DAC1_DB2P
M3
L3
DB2N
DB2P
DAC1_DB3N
DAC1_DB3P
M4
L4
DB3N
DB3P
DAC1_DB4N
DAC1_DB4P
N1
M1
DB4N
DB4P
DAC1_DB5N
DAC1_DB5P
P2
N2
DB5N
DB5P
DAC1_DB6N
DAC1_DB6P
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N3
DB6N
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DAC1_DB7N
DAC1_DB7P
P4
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DB7N
DB7P
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DAC1_DB8P
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DAC1_DB10P
T3
R3
DB10N
DB10P
DAC1_DB11N
DAC1_DB11P
T4
R4
DB11N
DB11P
DAC1_DBSTRP
DAC1_DBSTRN
J1
J2
DBSTRP
DBSTRN
DAC1_DBCLKP
DAC1_DBCLKN
K3
K4
DBCCLKP
DBCCLKN
DAC12DL3200
U47-C
DAC1_DC0N
DAC1_DC0P
E5
F5
DC0N
DC0P
DAC1_DC1N
DAC1_DC1P
E6
F6
DC1N
DC1P
DAC1_DC2N
DAC1_DC2P
E7
F7
DC2N
DC2P
DAC1_DC3N
DAC1_DC3P
E8
F8
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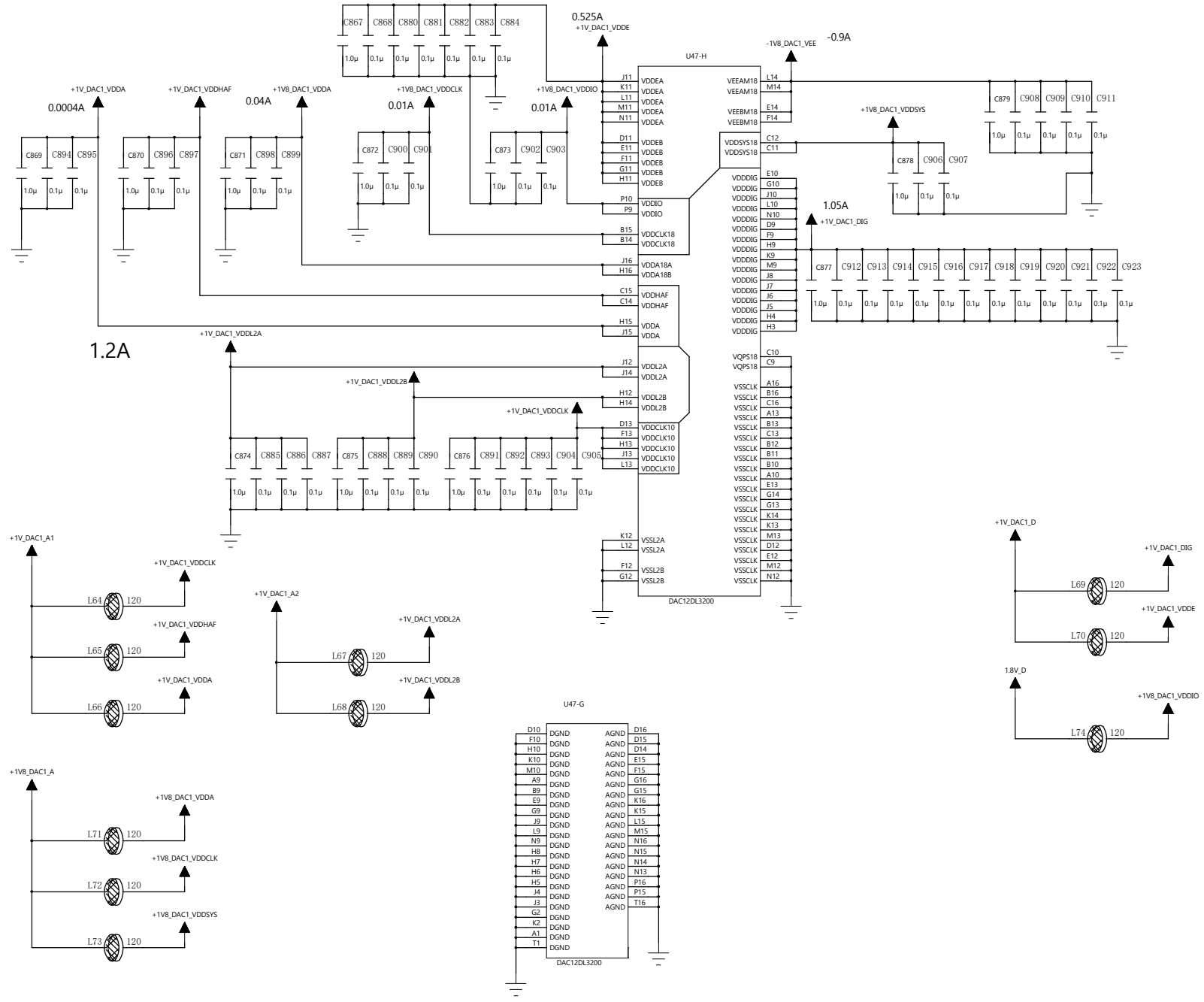
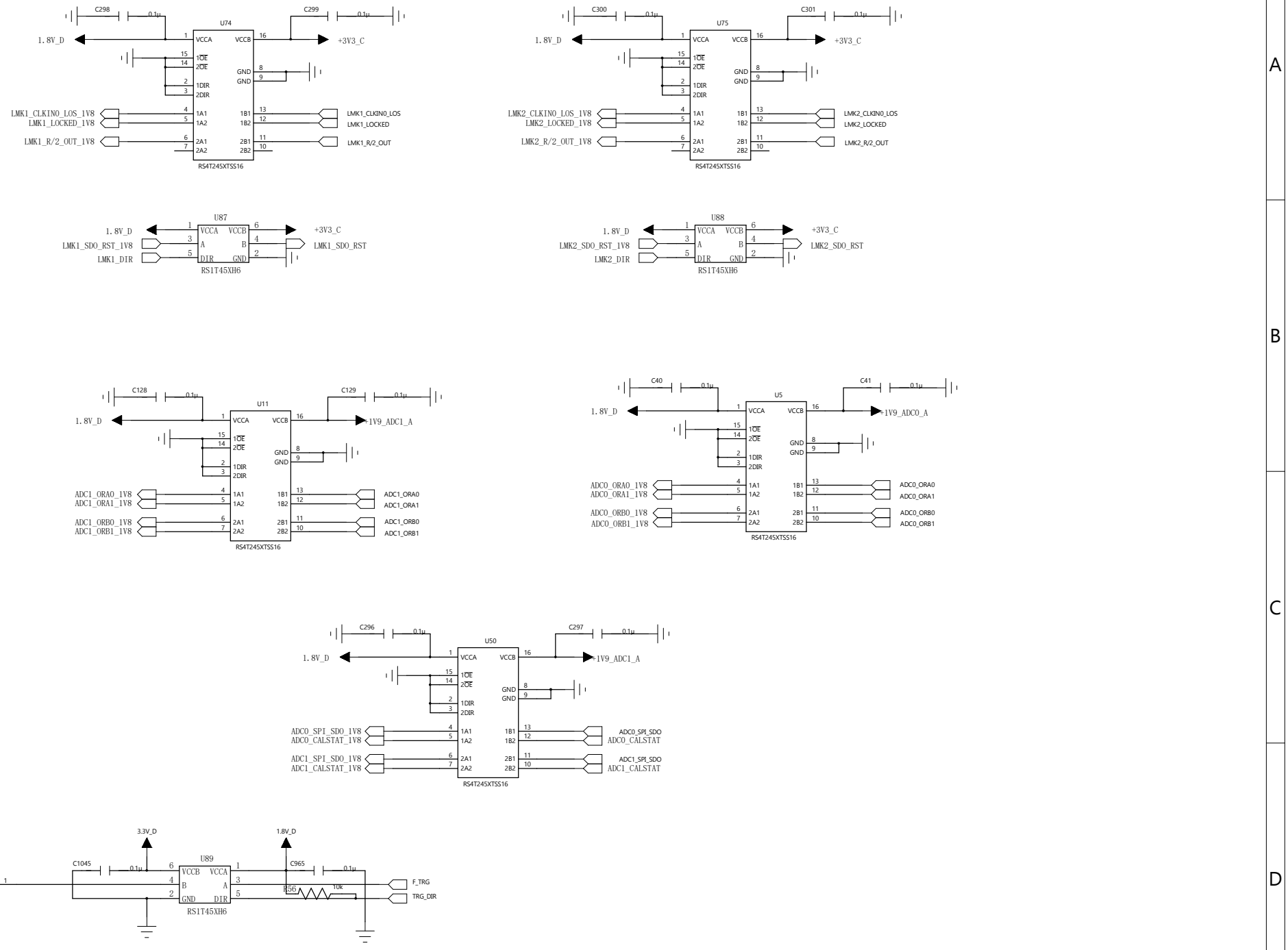
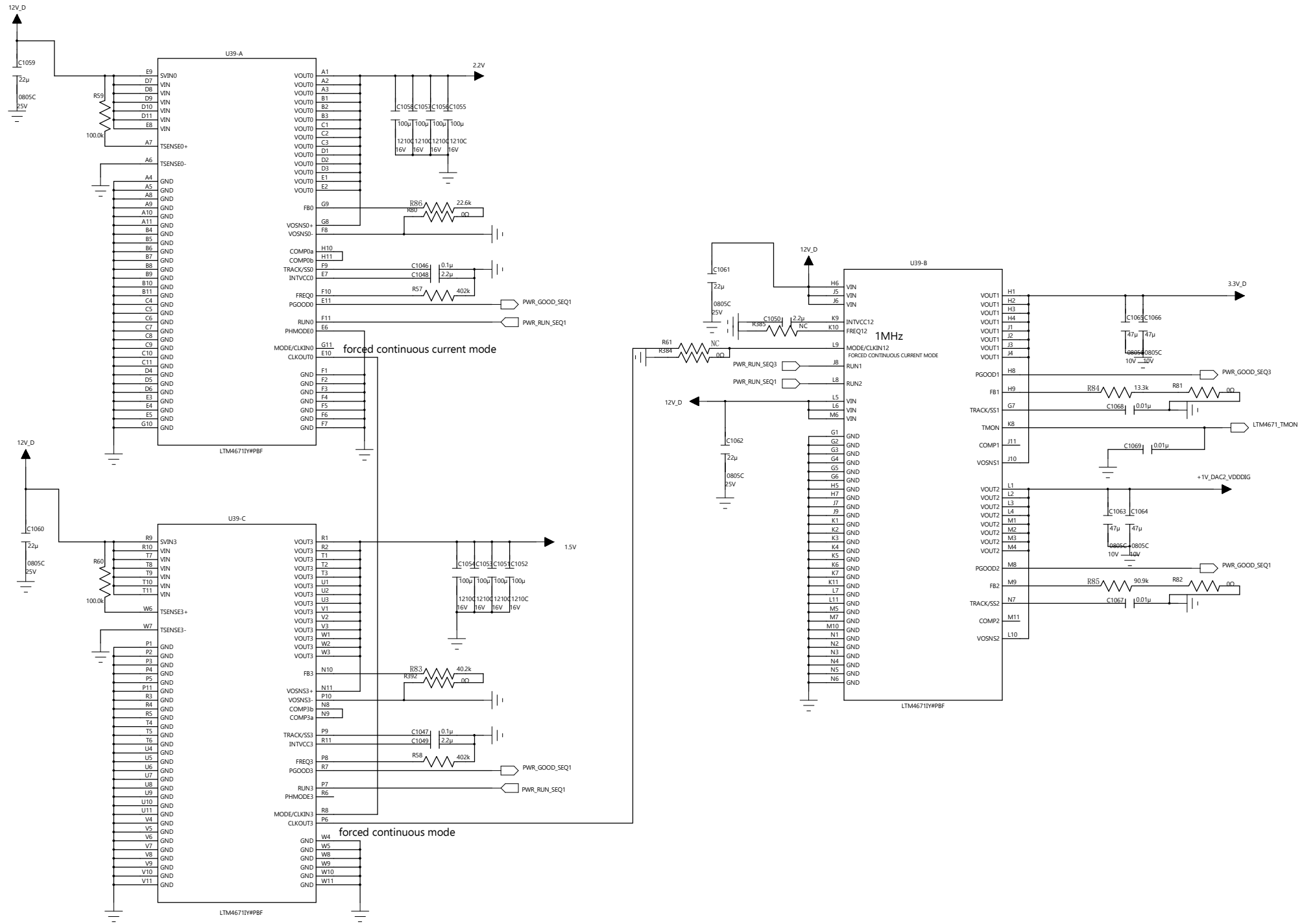
DC3P
DAC1_DC4N
DAC1_DC4P
C5
D5
DC4N
DC4P
DAC1_DC5N
DAC1_DC5P
C6
D6
DC5N
DC5P
DAC1_DC6N
DAC1_DC6P
C7
D7
DC6N
DC6P
DAC1_DC7N
DAC1_DC7P
C8
D8
DC7N
DC7P
DAC1_DC8N
DAC1_DC8P
A5
B5
DC8N
DC8P
DAC1_DC9N
DAC1_DC9P
A6
B6
DC9N
DC9P
DAC1_DC10N
DAC1_DC10P
A7
B7
DC10N
DC10P
DAC1_DC11N
DAC1_DC11P
A8
B8
DC11N
DC11P
DAC1_DCSTRP
DAC1_DCSTRN
G5
G6
DCSTRP
DCSTRN
DAC1_DCCLKP
DAC1_DCCLKN
G7
G8
DCCCLKP
DCCCLKN
DAC12DL3200
U47-D
DAC1_DD0N
DAC1_DD0P
F1
G1
DD0N
DD0P
DAC1_DD1N
DAC1_DD1P
E2
F2
DD1N
DD1P
DAC1_DD2N
DAC1_DD2P
E3
F3
DD2N
DD2P
DAC1_DD3N
DAC1_DD3P
E4
F4
DD3N
DD3P
DAC1_DD4N
DAC1_DD4P
D1
E1
DD4N
DD4P
DAC1_DD5N
DAC1_DD5P
C2
D2
DD5N
DD5P
DAC1_DD6N
DAC1_DD6P
C3
D3
DD6N
DD6P
DAC1_DD7N
DAC1_DD7P
C4
D4
DD7N
DD7P
DAC1_DD8N
DAC1_DD8P
B1
C1
DD8N
DD8P
DAC1_DD9N
DAC1_DD9P
A2
B2
DD9N
DD9P
DAC1_DD10N
DAC1_DD10P
A3
B3
DD10N
DD10P
DAC1_DD11N
DAC1_DD11P
A4
B4
DD11N
DD11P
DAC1_DDSTRP
DAC1_DDSTRN
H1
H2
DDSTRP
DDSTRN
DAC1_DDCLKP
DAC1_DDCLKN
G3
G4
DDCLKP
DDCLKN
DAC12DL3200
U47-F
DAC1_CLKP
DAC1_CLKN
C840
C838
0.01µ
A15
A14
CLKP
CLKN
VOUTAP
VOUTAN
M16
L16
DAC1_SYSREFP
DAC1_SYSREFN
C854
C853
A11
A12
SYSREFP
SYSREFN
VOUTBP
VOUTBN
E16
F16
DAC12DL3200
C855
C856
C857
C858
0.1µ
L54
L55
L56
L57
0603L
56nH
U51
U52
SEC_D
SEC
NC
PRI_D
PRI/GND
TCM2_43X+
DA3
J9
SMA
GND2
GND3
GND4
GND5
DAC1_OUT0
C859
C860
C861
C862
100p
NFM18PS105D0J3D
L58
L59
C863
C864
C865
C866
0.1µ
10µ
+1V8_DAC1_VDDA
U47-E
DAC1_TRGCLK
DAC1_NCOBKSEL
DAC1_NCOSEL3
DAC1_NCOSEL2
DAC1_NCOSEL1
DAC1_NCOSEL0
P12
P11
R10
T10
R9
T9
TRIGCLK
NCOBANKSEL
NCOSEL3
NCOSEL2
NCOSEL1
NCOSEL0
internal pulldown
DAC1_SCK
DAC1_SCSB
DAC1_SDI
DAC1_SDO
DAC1_TXEN
DAC1_RSTB
DAC1_SLEEP
DAC1_ALARM
T13
T14
R14
R13
T11
T12
R12
P14
SCLK
SCSB
SDI
SDO
TXENABLE
RESETB
SLEEP
ALARM
internal pullup
RBIAS
NC ATEST
EXTIO
TESTMODE
SYNC
R16
R15
T15
P13
R11
R43
3.6k
C837
0.1µ
DAC1_SYNCB
DAC12DL3200
4.7k
4.7k
R44
R45
1.8V_D

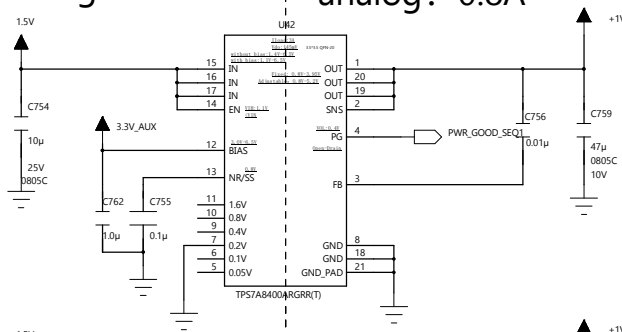

0.525A
+1V_DAC1_VDDE
-0.9A
-1V8_DAC1_VEE
U47-H
+1V_DAC1_VDDA
+1V_DAC1_VDDHAF
+1V8_DAC1_VDDA
+1V8_DAC1_VDDCLK
+1V8_DAC1_VDDIO
0.0004A
0.04A
0.01A
0.01A
+1V8_DAC1_VDDSYS
1.05A
+1V_DAC1_DIG
1.2A
+1V_DAC1_VDDL2A
+1V_DAC1_VDDL2B
+1V_DAC1_VDDCLK
DAC12DL3200
+1V_DAC1_A1
+1V_DAC1_A2
+1V8_DAC1_A
+1V_DAC1_D
1.8V_D
U47-G
DAC12DL3200


C298
0.1μ
U74
1.8V_D
VCCA
VCCB
+3V3_C
C299
0.1μ
1OE
2OE
GND
1DIR
2DIR
LMK1_CLKIN0_LOS_1V8
LMK1_LOCKED_1V8
LMK1_R/2_OUT_1V8
1A1
1A2
2A1
2A2
1B1
1B2
2B1
2B2
LMK1_CLKIN0_LOS
LMK1_LOCKED
LMK1_R/2_OUT
RS4T245XTSS16
C300
U75
LMK2_CLKIN0_LOS_1V8
LMK2_LOCKED_1V8
LMK2_R/2_OUT_1V8
LMK2_CLKIN0_LOS
LMK2_LOCKED
LMK2_R/2_OUT
U87
LMK1_SDO_RST_1V8
LMK1_DIR
A
B
DIR
LMK1_SDO_RST
RS1T45XH6
U88
LMK2_SDO_RST_1V8
LMK2_DIR
LMK2_SDO_RST
C128
U11
ADC1_ORA0_1V8
ADC1_ORA1_1V8
ADC1_ORB0_1V8
ADC1_ORB1_1V8
ADC1_ORA0
ADC1_ORA1
ADC1_ORB0
ADC1_ORB1
C129
1V9_ADC1_A
C40
U5
ADC0_ORA0_1V8
ADC0_ORA1_1V8
ADC0_ORB0_1V8
ADC0_ORB1_1V8
ADC0_ORA0
ADC0_ORA1
ADC0_ORB0
ADC0_ORB1
C41
1V9_ADC0_A
C296
U50
ADC0_SPI_SDO_1V8
ADC0_CALSTAT_1V8
ADC1_SPI_SDO_1V8
ADC1_CALSTAT_1V8
ADC0_SPI_SDO
ADC0_CALSTAT
ADC1_SPI_SDO
ADC1_CALSTAT
C297
J2
GND2
GND3
GND4
GND5
S
SMA
3.3V_D
1.8V_D
C1045
U89
VCCB
VCCA
GND
DIR
C965
R56
10k
F_TRG
TRG_DIR


12V_D
U39-A
LTM4671IY#PBF
2.2V
PWR_GOOD_SEQ1
PWR_RUN_SEQ1
forced continuous current mode
U39-C
1.5V
forced continuous mode
U39-B
1MHz
FORCED CONTINUOUS CURRENT MODE
3.3V_D
PWR_GOOD_SEQ3
LTM4671_TMON
+1V_DAC2_VDDDIG
PWR_GOOD_SEQ1

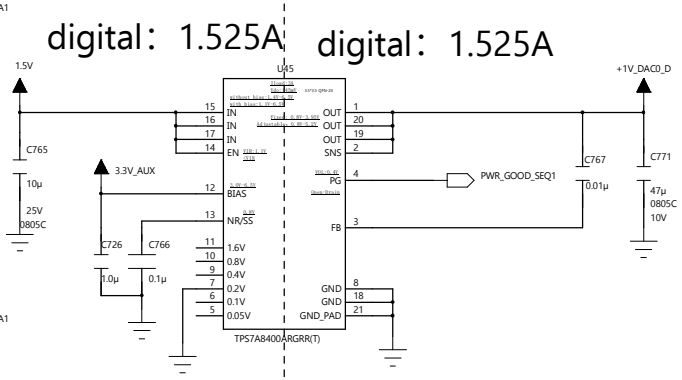
digital：0.8A

analog：0.8A



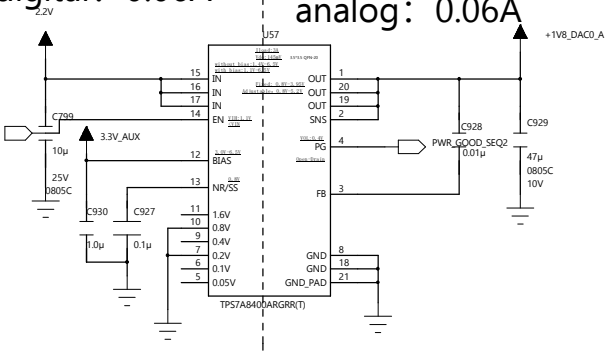
digital：1.525A

digital：1.525A



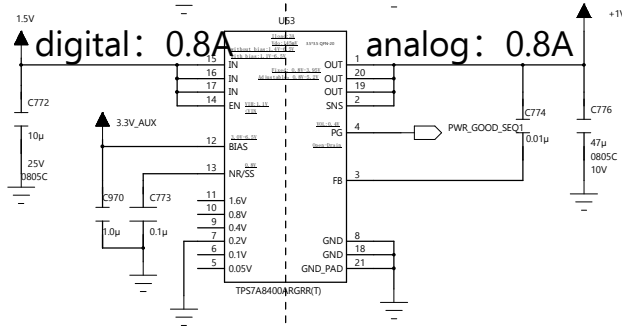
digital：0.06A

analog：0.06A



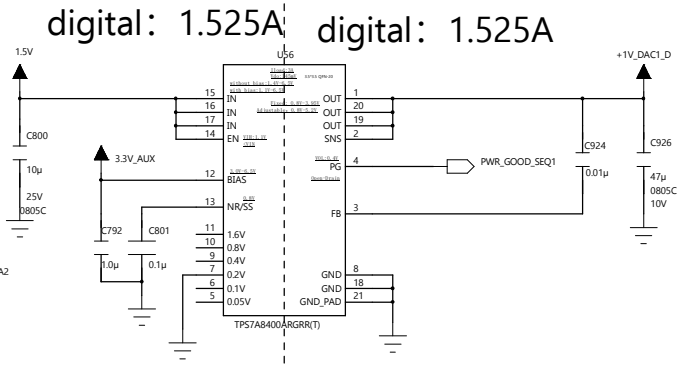
digital：0.8A

analog：0.8A



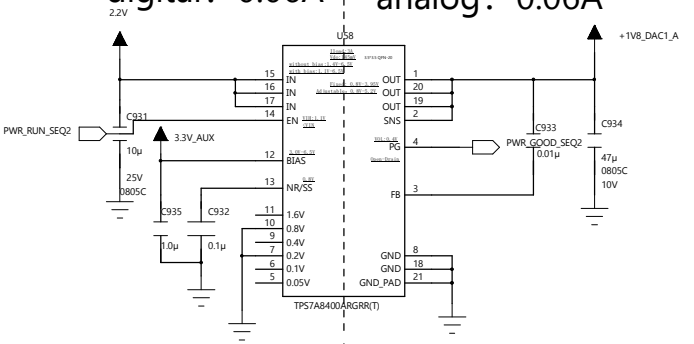
digital：1.525A

digital：1.525A



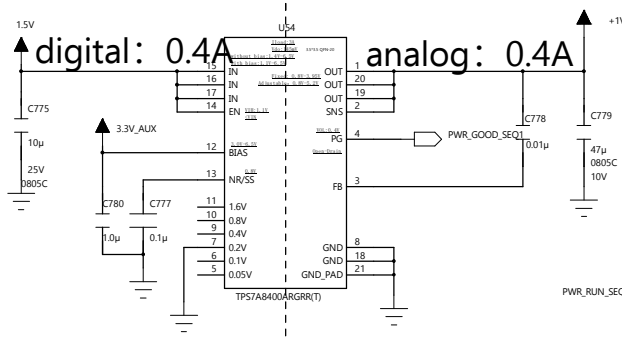
digital：0.06A

analog：0.06A



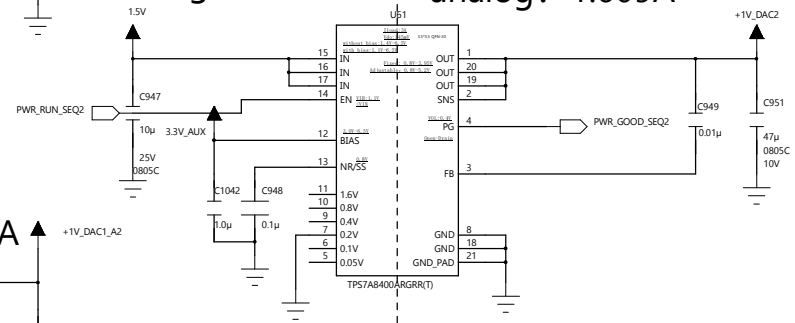
digital：0.4A

analog：0.4A



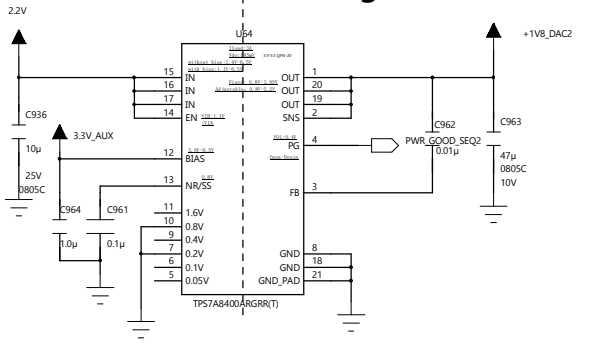
digital：1.609A

analog：1.609A



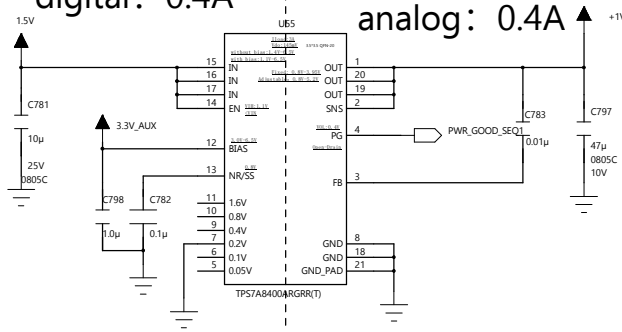
digital：0.354A

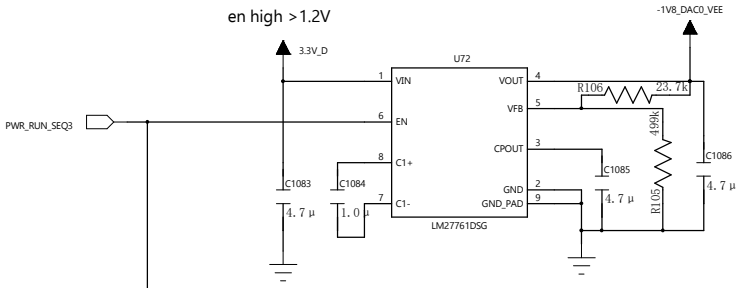
analog：0.354A



digital：0.4A

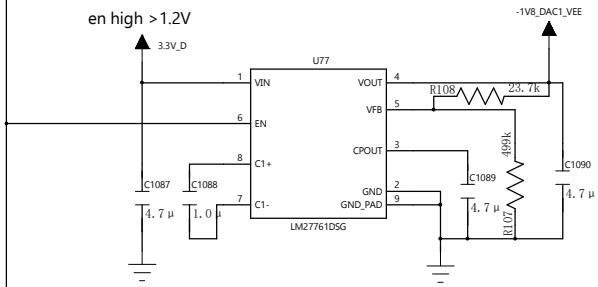
analog：0.4A



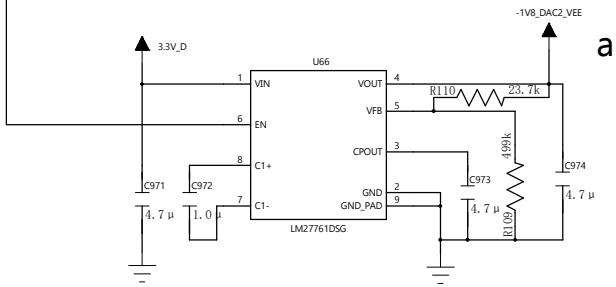


analog：-0.09A

-1.8V for DAC is powered only after all positive supplies for DAC are powered



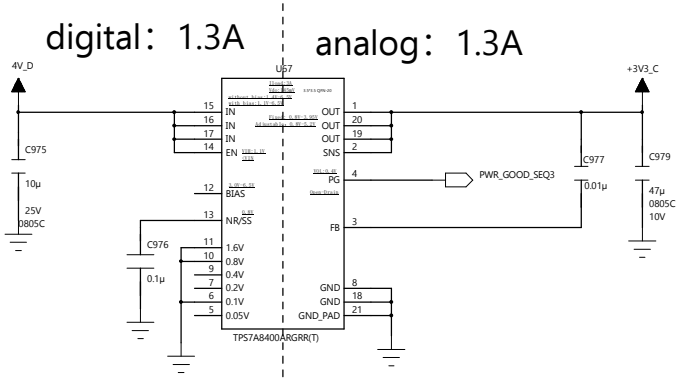
analog：-0.09A

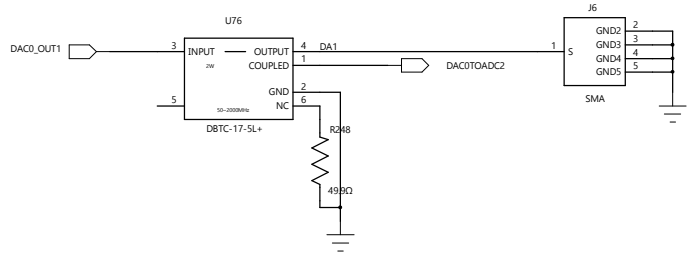


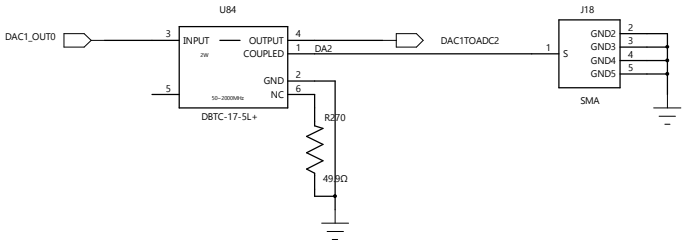
analog：-0.152A

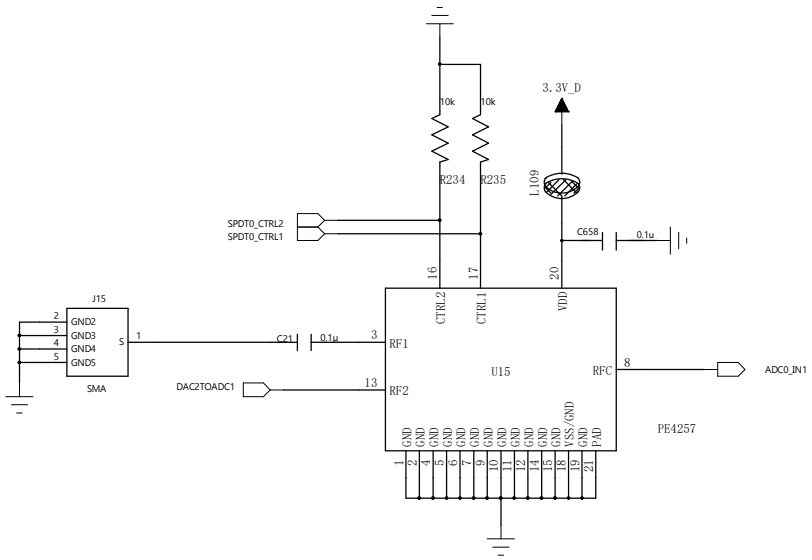
digital：1.3A

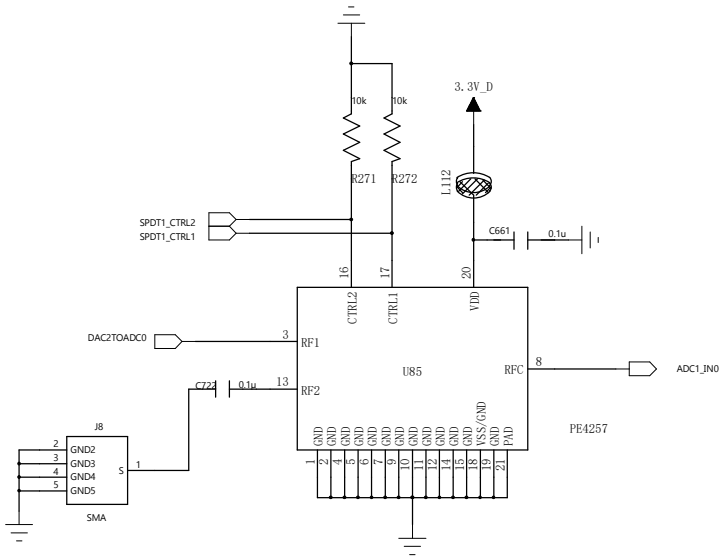
analog：1.3A

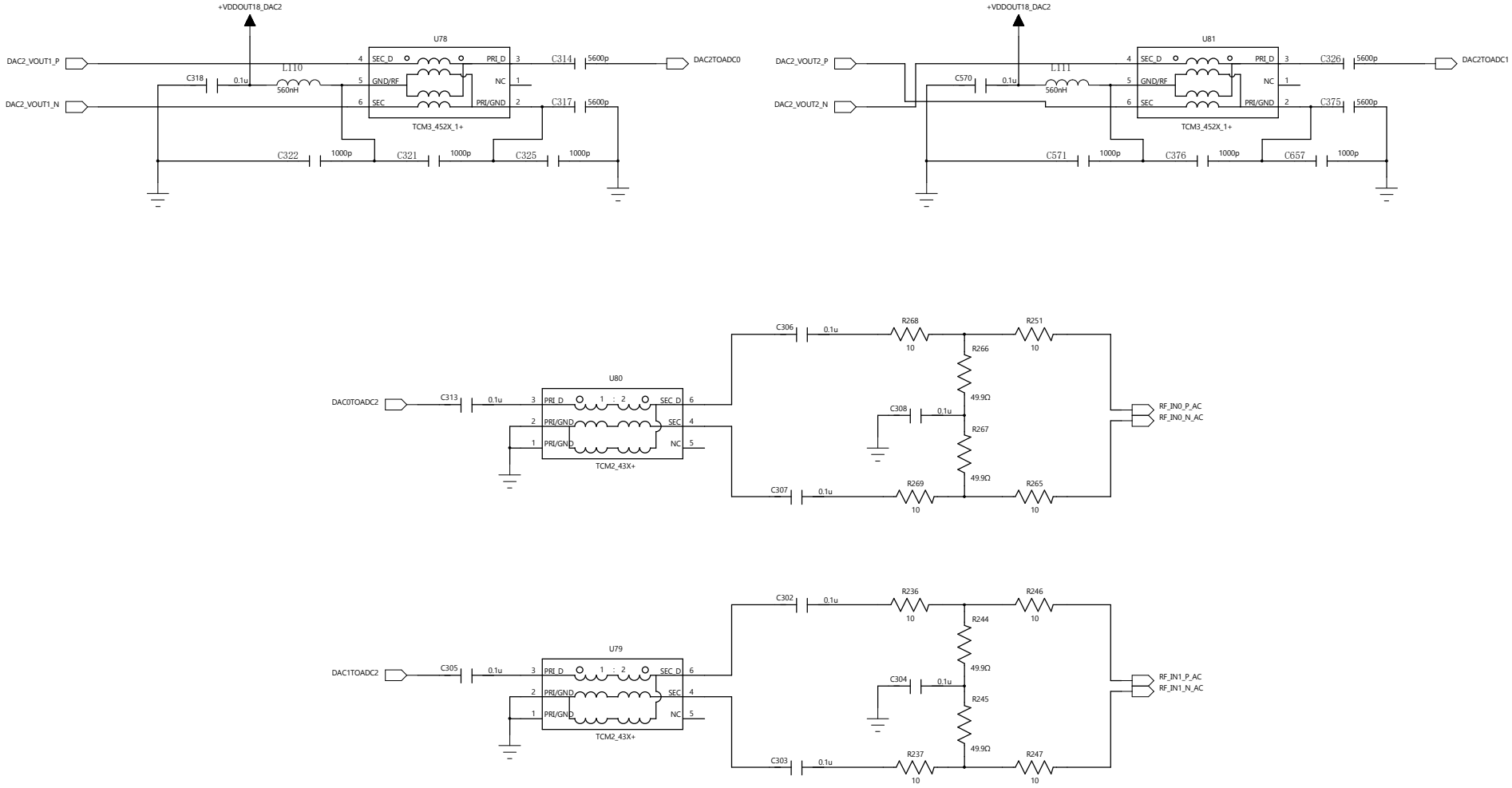


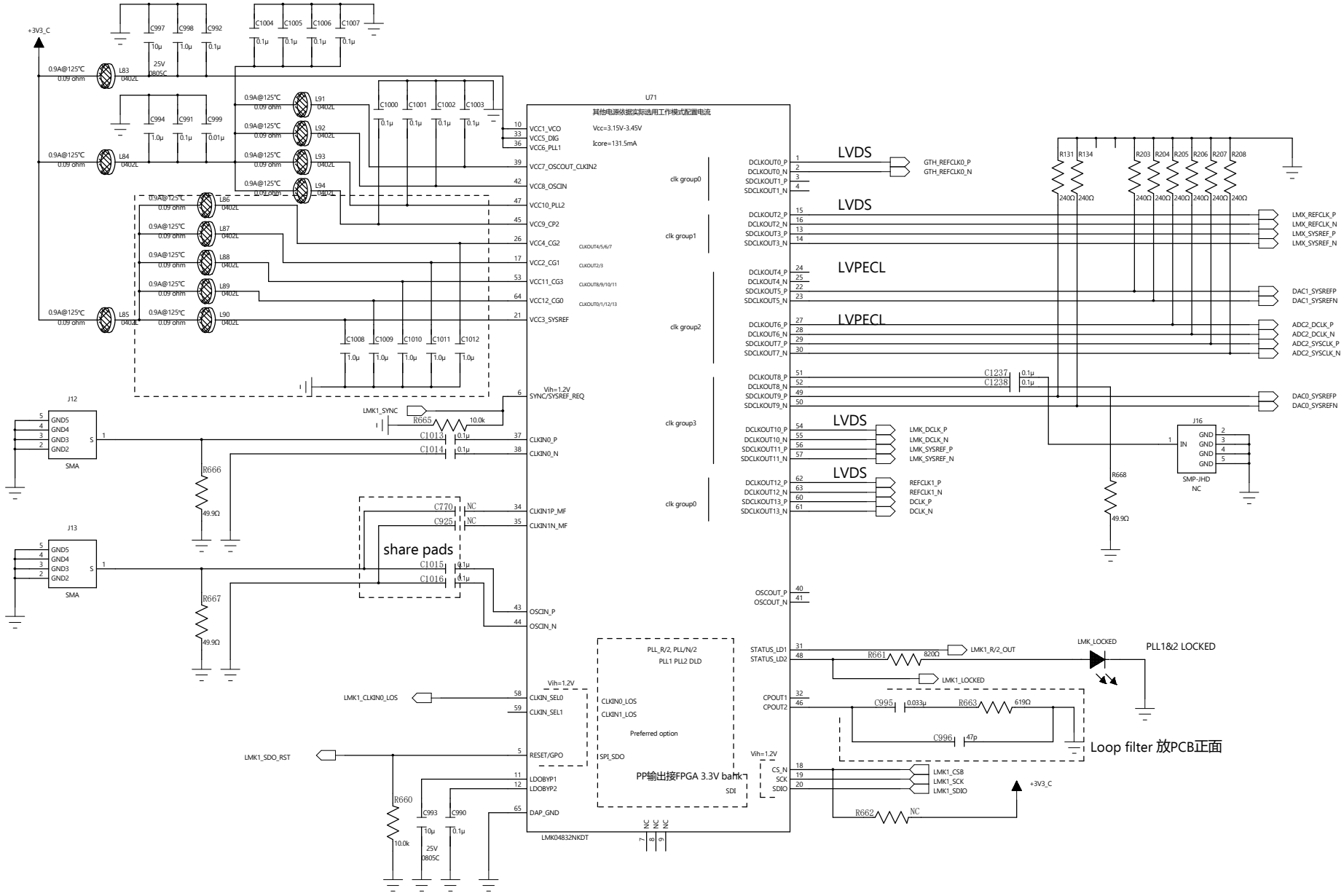

U76
DAC0_OUT1
INPUT
OUTPUT
COUPLED
GND
NC
DA1
DAC0TOADC2
DBTC-17-5L+
R248
499Ω
J6
GND2
GND3
GND4
GND5
SMA


U84
DAC1_OUT0
INPUT
OUTPUT
COUPLED
GND
NC
DA2
DAC1TOADC2
DBTC-17-5L+
R270
499Ω
J18
GND2
GND3
GND4
GND5
SMA


3.3V_D
10k
10k
R234
R235
L109
SPDT0_CTRL2
SPDT0_CTRL1
C658
0.1u
J15
GND2
GND3
GND4
GND5
SMA
C21
0.1u
DAC2TOADC1
U15
CTRL2
CTRL1
VDD
RF1
RF2
RFC
VSS/GND
PAD
ADC0_IN1
PE4257


3.3V_D
10k
10k
R271
R272
L112
SPDT1_CTRL2
SPDT1_CTRL1
C661
0.1u
DAC2TOADC0
U85
CTRL2
CTRL1
VDD
RF1
RF2
RFC
VSS/GND
PAD
ADC1_IN0
PE4257
C721
0.1u
J8
GND2
GND3
GND4
GND5
SMA

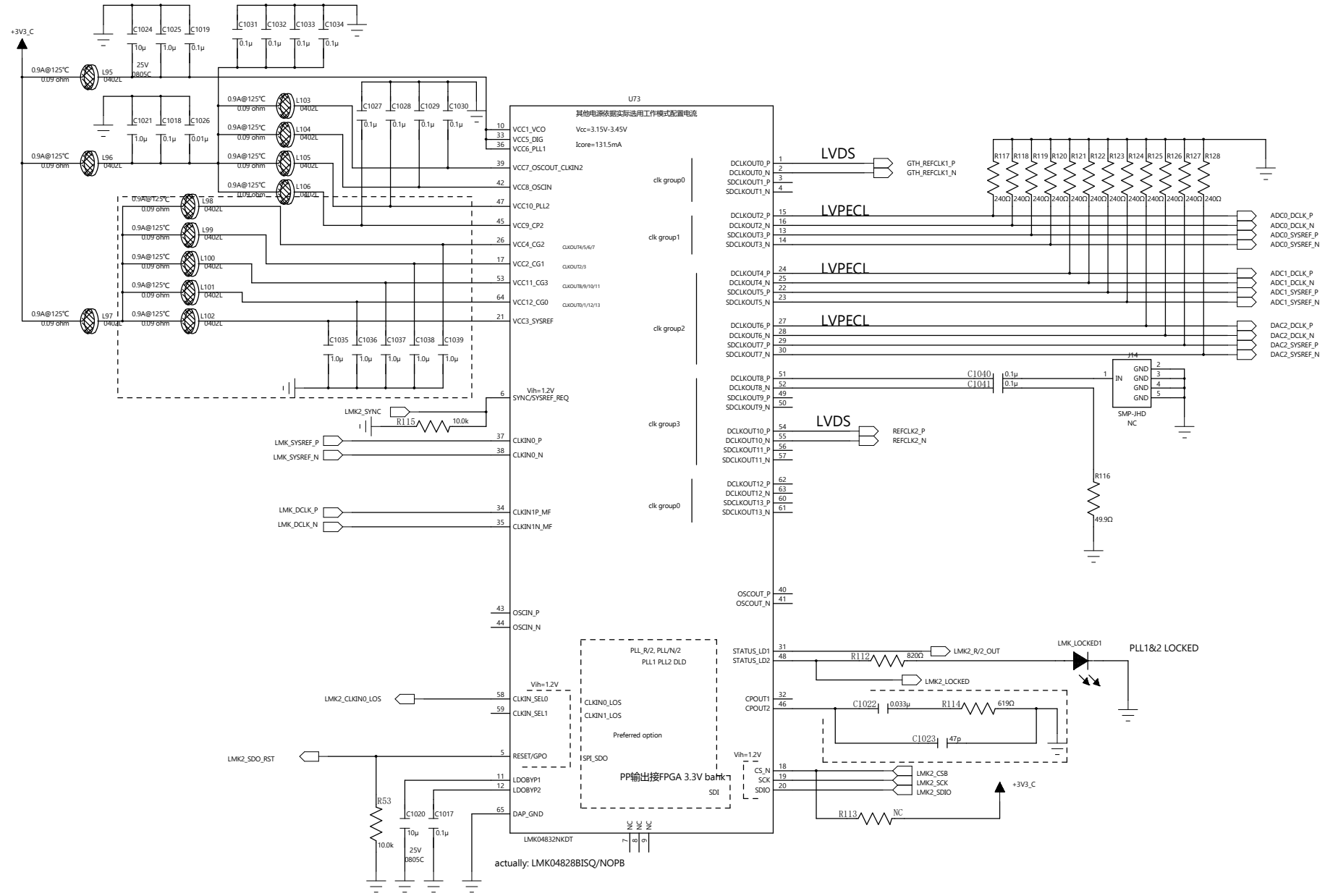

+VDDOUT18_DAC2
U78
DAC2_VOUT1_P
DAC2_VOUT1_N
C318
0.1u
L110
560nH
SEC_D
GND/RF
SEC
PRI_D
NC
PRI/GND
C314
5600p
C317
5600p
DAC2TOADC0
TCM3_452X_1+
C322
1000p
C321
1000p
C325
1000p
+VDDOUT18_DAC2
U81
DAC2_VOUT2_P
DAC2_VOUT2_N
C570
0.1u
L111
560nH
C326
5600p
C375
5600p
DAC2TOADC1
TCM3_452X_1+
C571
1000p
C376
1000p
C657
1000p
U80
DAC0TOADC2
C313
0.1u
PRI_D
PRI/GND
PRI/GND
SEC_D
SEC
NC
TCM2_43X+
C306
0.1u
R268
10
R251
10
R266
49.9Ω
C308
0.1u
R267
49.9Ω
C307
0.1u
R269
10
R265
10
RF_IN0_P_AC
RF_IN0_N_AC
U79
DAC1TOADC2
C305
0.1u
TCM2_43X+
C302
0.1u
R236
10
R246
10
R244
49.9Ω
C304
0.1u
R245
49.9Ω
C303
0.1u
R237
10
R247
10
RF_IN1_P_AC
RF_IN1_N_AC

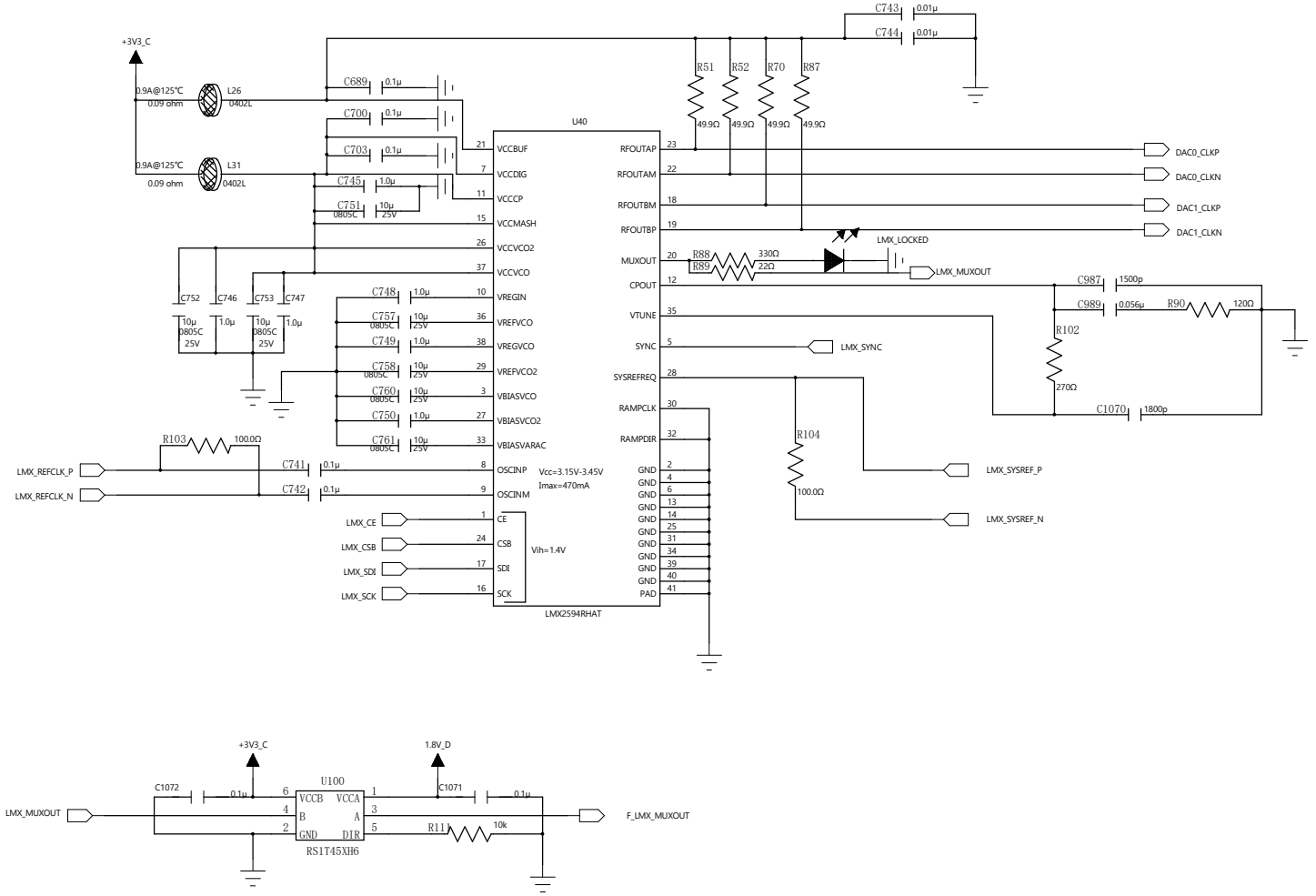


100MHz

2.4GHz

2.4GHz


U73
其他电源依据实际选用工作模式配置电流
Vcc=3.15V-3.45V
Icore=131.5mA
LMK04832NKDT
actually: LMK04828BISQ/NOPB
clk group0
clk group1
clk group2
clk group3
clk group0
LVDS
LVPECL
LVPECL
LVDS
LVPECL
GTH_REFCLK1_P
GTH_REFCLK1_N
REFCLK2_P
REFCLK2_N
ADC0_DCLK_P
ADC0_DCLK_N
ADC0_SYSREF_P
ADC0_SYSREF_N
ADC1_DCLK_P
ADC1_DCLK_N
ADC1_SYSREF_P
ADC1_SYSREF_N
DAC2_DCLK_P
DAC2_DCLK_N
DAC2_SYSREF_P
DAC2_SYSREF_N
SMP-JHD
NC
LMK2_R/2_OUT
LMK2_LOCKED
LMK_LOCKED1
PLL1&2 LOCKED
LMK2_CSB
LMK2_SCK
LMK2_SDIO
LMK2_SYNC
LMK_SYSREF_P
LMK_SYSREF_N
LMK_DCLK_P
LMK_DCLK_N
LMK2_CLKIN0_LOS
LMK2_SDO_RST
PP输出接FPGA 3.3V bank
Preferred option
+3V3_C
2.4GHz
2.4GHz
2.4GHz


+3V3_C
0.9A@125℃
0.09 ohm
L26
0402L
L31
C689 0.1μ
C700 0.1μ
C703 0.1μ
C745 1.0μ
C751 10μ 0805C 25V
C752 10μ 0805C 25V
C746 1.0μ
C753 10μ 0805C 25V
C747 1.0μ
C748 1.0μ
C757 10μ 0805C 25V
C749 1.0μ
C758 10μ 0805C 25V
C760 10μ 0805C 25V
C750 1.0μ
C761 10μ 0805C 25V
R103 100.0Ω
C741 0.1μ
C742 0.1μ
LMX_REFCLK_P
LMX_REFCLK_N
LMX_CE
LMX_CSB
LMX_SDI
LMX_SCK
U40
VCCBUF 21
VCCDIG 7
VCCCP 11
VCCMASH 15
VCCVCO2 26
VCCVCO 37
VREGIN 10
VREFVCO 36
VREGVCO 38
VREFVCO2 29
VBIASVCO 3
VBIASVCO2 27
VBIASVARAC 33
OSCINP 8
OSCINM 9
CE 1
CSB 24
SDI 17
SCK 16
Vcc=3.15V-3.45V
Imax=470mA
Vih=1.4V
LMX2594RHAT
RFOUTAP 23
RFOUTAM 22
RFOUTBM 18
RFOUTBP 19
MUXOUT 20
CPOUT 12
VTUNE 35
SYNC 5
SYSREFREQ 28
RAMPCLK 30
RAMPDIR 32
GND 2 4 6 13 14 25 31 34 39 40 41
PAD
C743 0.01μ
C744 0.01μ
R51 49.9Ω
R52 49.9Ω
R70 49.9Ω
R87 49.9Ω
DAC0_CLKP
DAC0_CLKN
DAC1_CLKP
DAC1_CLKN
4.8GHz
4.8GHz
LMX_LOCKED
R88 330Ω
R89 22Ω
LMX_MUXOUT
C987 1500p
C989 0.056μ
R90 120Ω
R102 270Ω
C1070 1800p
LMX_SYNC
R104 100.0Ω
LMX_SYSREF_P
LMX_SYSREF_N
+3V3_C
1.8V_D
C1072 0.1μ
U100
VCCB VCCA
B A
GND DIR
RS1T45XH6
C1071 0.1μ
R111 10k
LMX_MUXOUT
F_LMX_MUXOUT