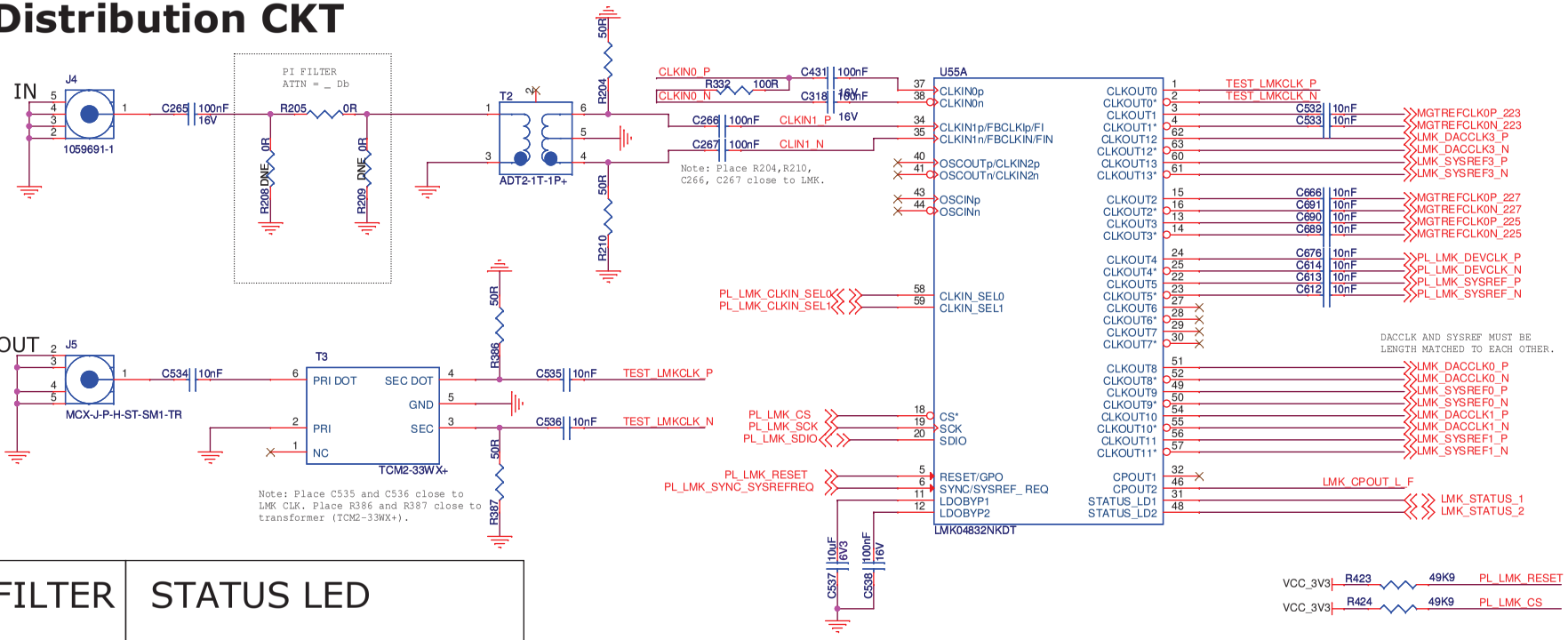
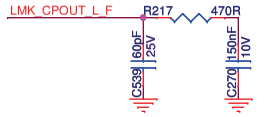
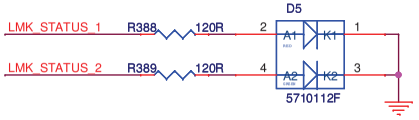
Clock Distribution CKT



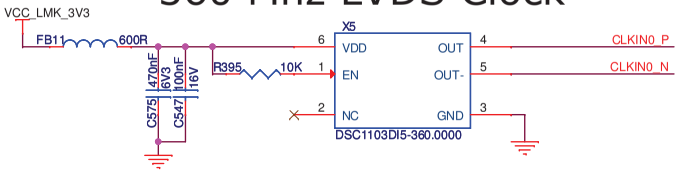
LOOP FILTER



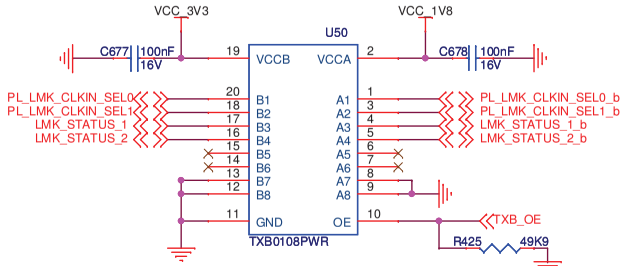
STATUS LED

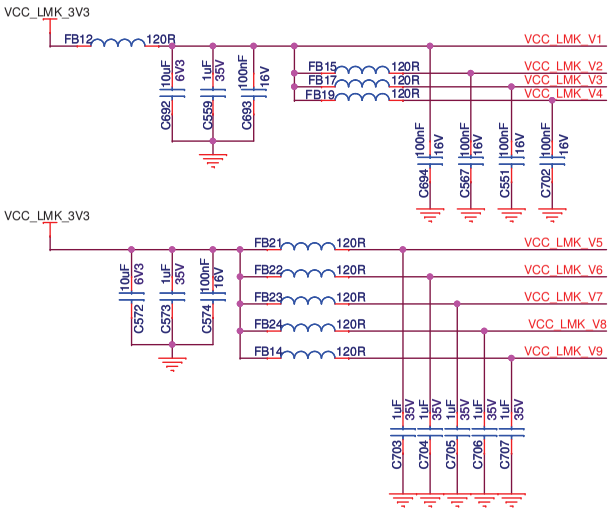


360 Mhz LVDS Clock

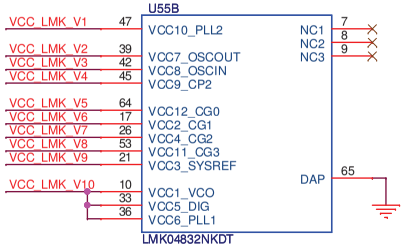


BIDIRECTIONAL BUFFER





Power



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Date: Monday, September 06, 2021 Sheet 23 of 36

DAC WB, NB

PLACE NEAR
LMK04832 CLK

R218 120R
R219 120R
R220 DNE 200R
R221 DNE 200R
R222 120R
R223 120R

LMK_DACCLK0_N
LMK_DACCLK0_P
LMK_SYSREF0_P
LMK_SYSREF0_N

C271 10nF
C272 10nF
C273 10nF
C274 10nF

U31A
DAC39J82IAVV

DACCLKN A9
DACCLKP A10
SYSREFP A7
SYSREFN A6

GTH223_TXP0_DAC0_RX0P
GTH223_TXN0_DAC0_RX0N
GTH223_TXP1_DAC0_RX1P
GTH223_TXN1_DAC0_RX1N
GTH223_TXP2_DAC0_RX2P
GTH223_TXN2_DAC0_RX2N
GTH223_TXP3_DAC0_RX3P
GTH223_TXN3_DAC0_RX3N
GTH224_TXP0_DAC0_RX4P
GTH224_TXN0_DAC0_RX4N
GTH224_TXP1_DAC0_RX5P
GTH224_TXN1_DAC0_RX5N
GTH224_TXP2_DAC0_RX6P
GTH224_TXN2_DAC0_RX6N
GTH224_TXP3_DAC0_RX7P
GTH224_TXN3_DAC0_RX7N

C275 100nF
C276 100nF
C277 100nF
C278 100nF
C279 100nF
C280 100nF
C281 100nF
C282 100nF
C284 100nF
C285 100nF
C286 100nF
C287 100nF
C288 100nF
C289 100nF
C290 100nF
C291 100nF

RX0P G1
RX0N H1
RX1P K1
RX1N J1
RX2P L1
RX2N M1
RX3P M3
RX3N M2
RX4P F1
RX4N E1
RX5P C1
RX5N D1
RX6P B1
RX6N A1
RX7P A3
RX7N A2

DAC0_LPF C9
LPF

PL_DAC0_SDO M10
PL_DAC0_SDIO L10
PL_DAC0_SDENB M9
PL_DAC0_SCLK L9
SDO
SDIO
SDENB
SCLK

IOUTAP B12
IOUTAN C12
IOUTBP E12
IOUTBN D12
IOUTCP H12
IOUTCN J12
IOUTDP L12
IOUTDN K12

SYNCBP B7
SYNCBN B6
SYNC_N_AB L6
SYNC_N_CD L7
EXTIO F10
RBIAS G10
R228 1K91
C283 100nF 16V
TP40

TRSTB J3
TMS L4
TDO M5
TDI L5
TCLK K4

VSENSE C4
IFORCE C5
ATEST K9
AMUX1 E3
AMUX0 H3

TESTMODE K3
ALARM L8
SLEEP M8
RESETB K8
TXENABLE K5

PL_DAC0_SYNCBP
PL_DAC0_SYNCBN
PL_DAC0_ALARM
PL_DAC0_SLEEP
PL_DAC0_RESETB
PL_DAC0_TXENABLE

R390 10K

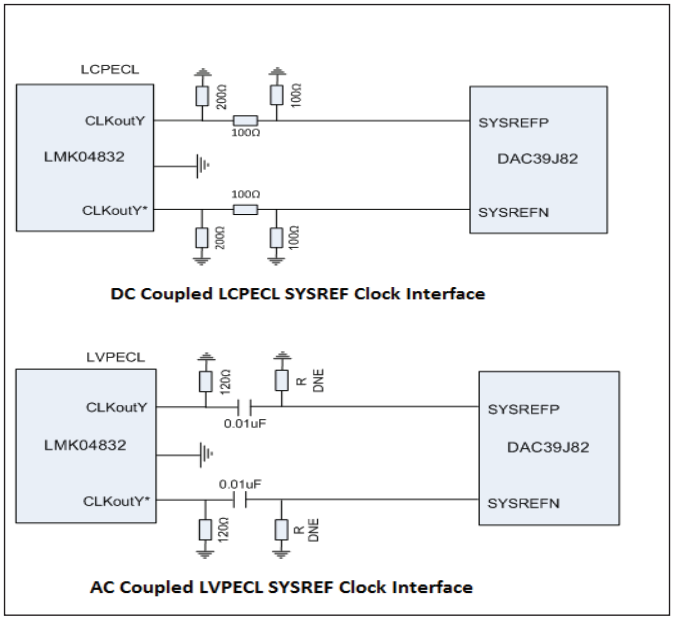
Note: Place Resistors close to DAC

R224 50R
R225 50R
R249 50R
R250 50R

T4 ADT2-1T-1P+
T5 MABA-007159-000000
T8 ADT2-1T-1P+
T9 MABA-007159-000000
J6 1059691-1
J8 1059691-1

PLACE CLOSE TO DAC

DAC0_LPF
R392 DNE 133R
R391 DNE 1K
C679 1nF DNE 16V
C588 100nF DNE 16V



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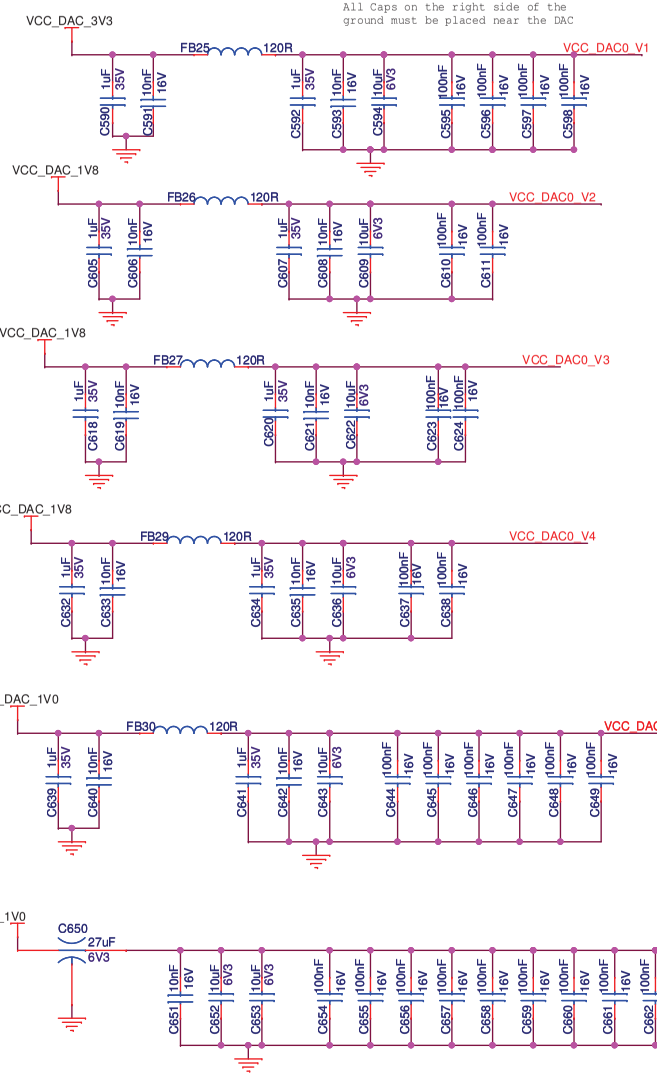
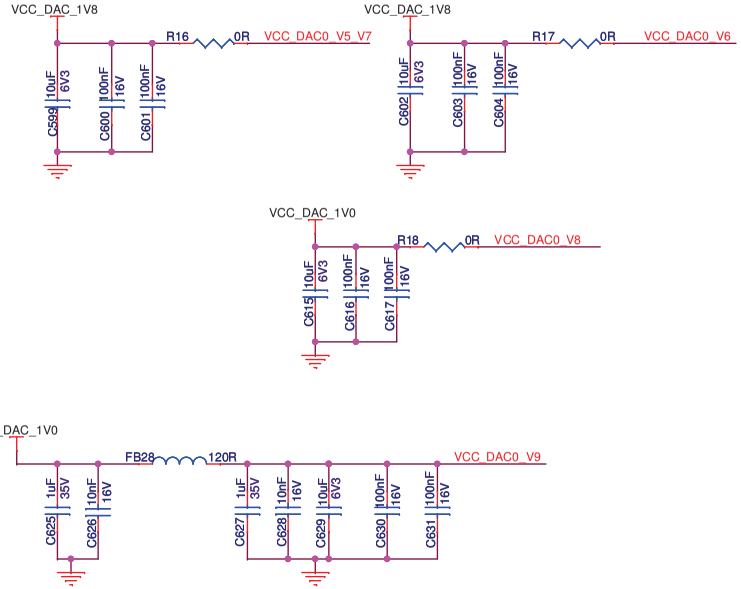
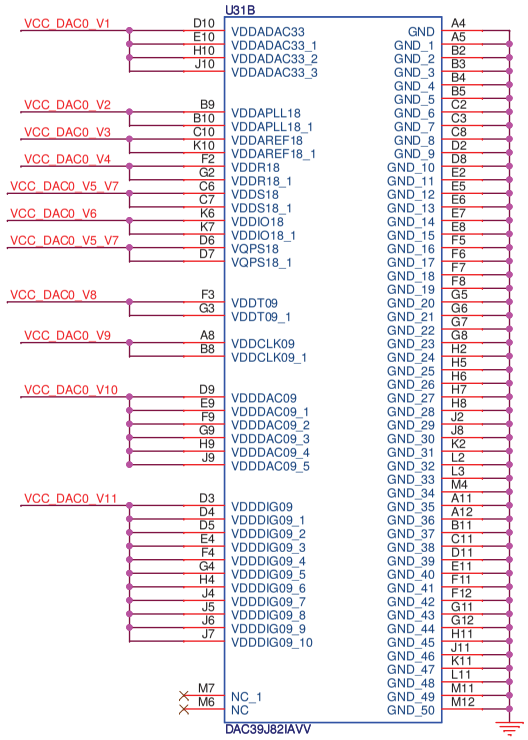
Date: Monday, September 06, 2021 Sheet 25 of 36

WB/NB DAC0 POWER

All Caps on the right side of the ground must be placed near the DAC







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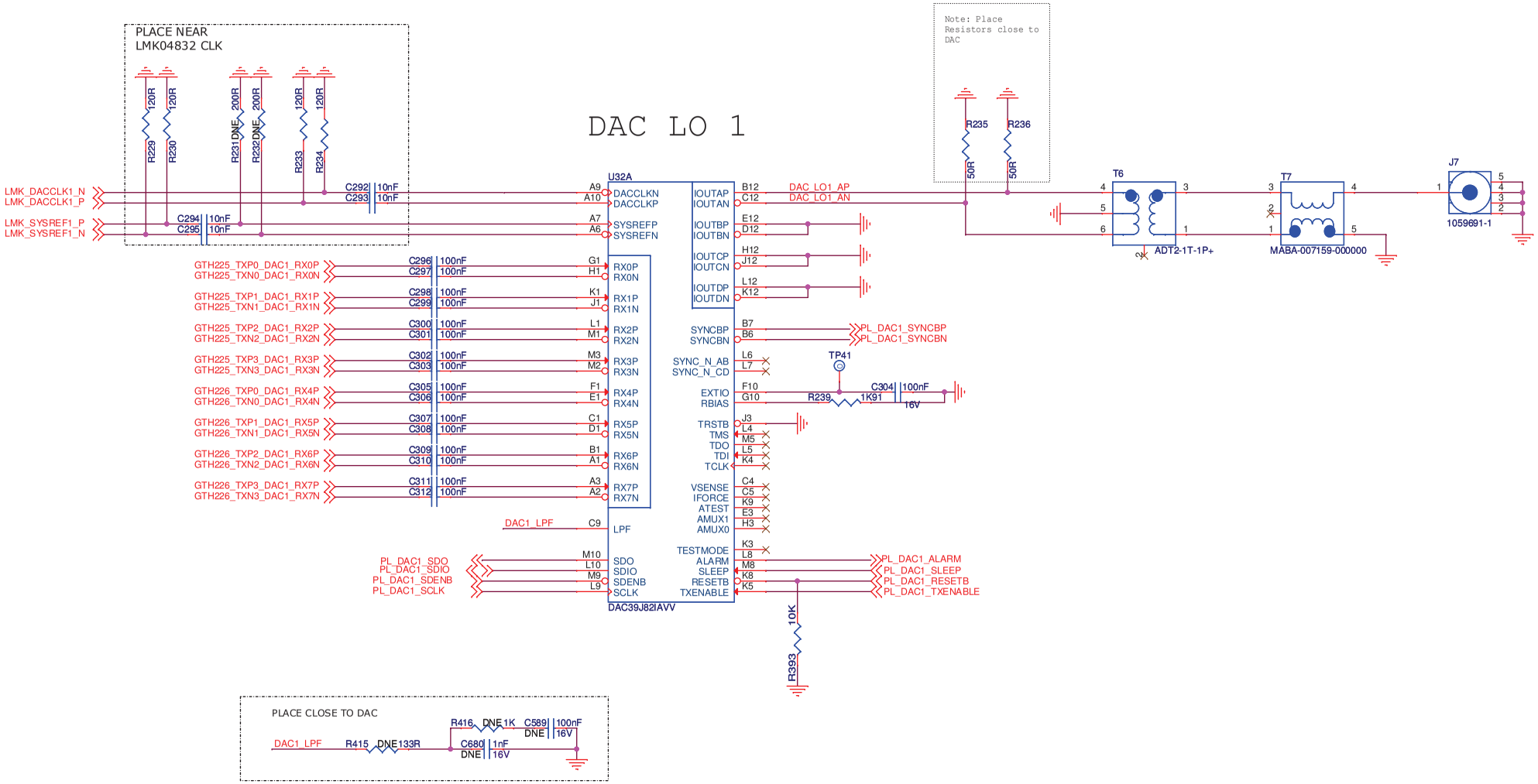

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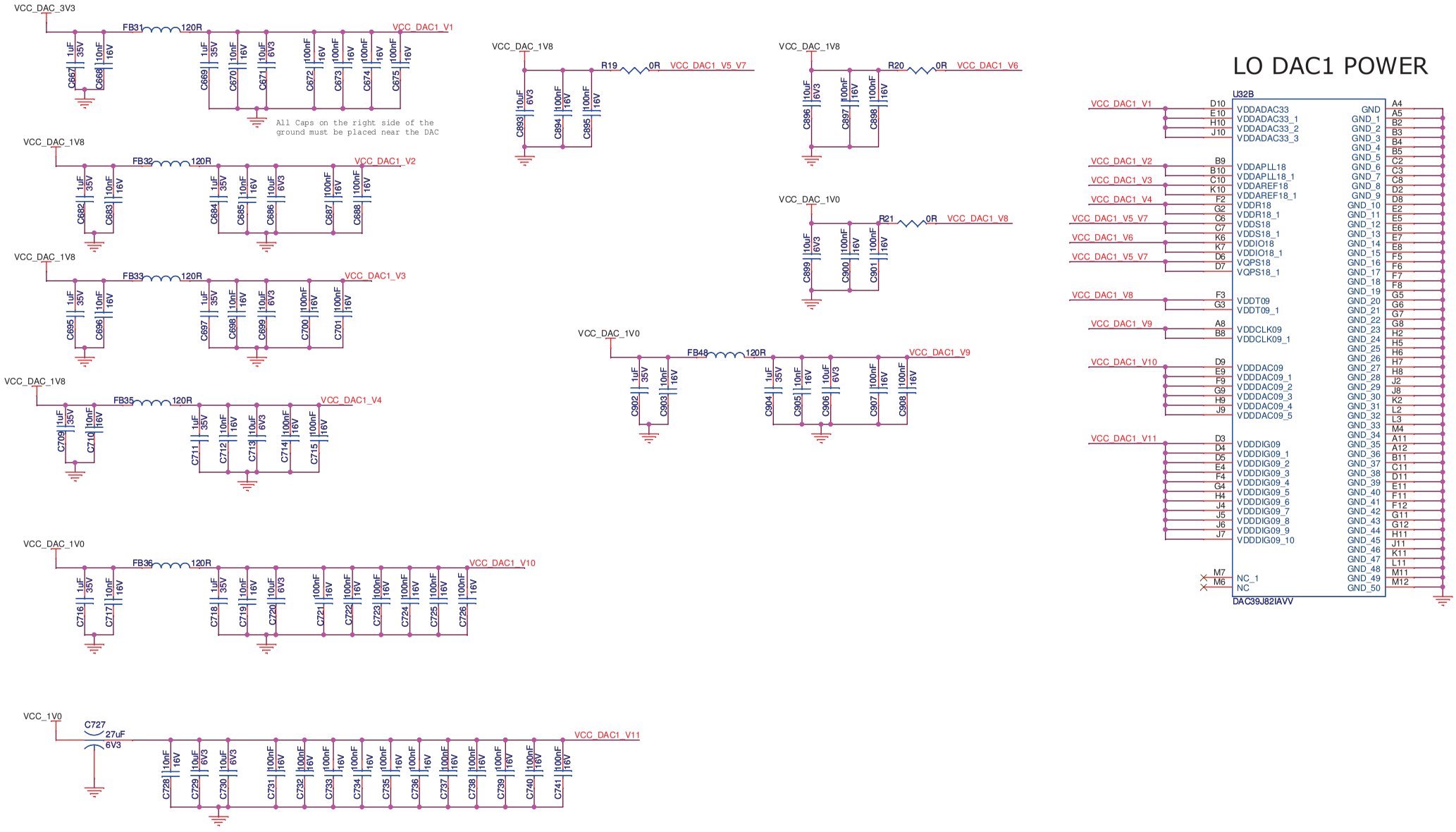
LO DAC1 POWER



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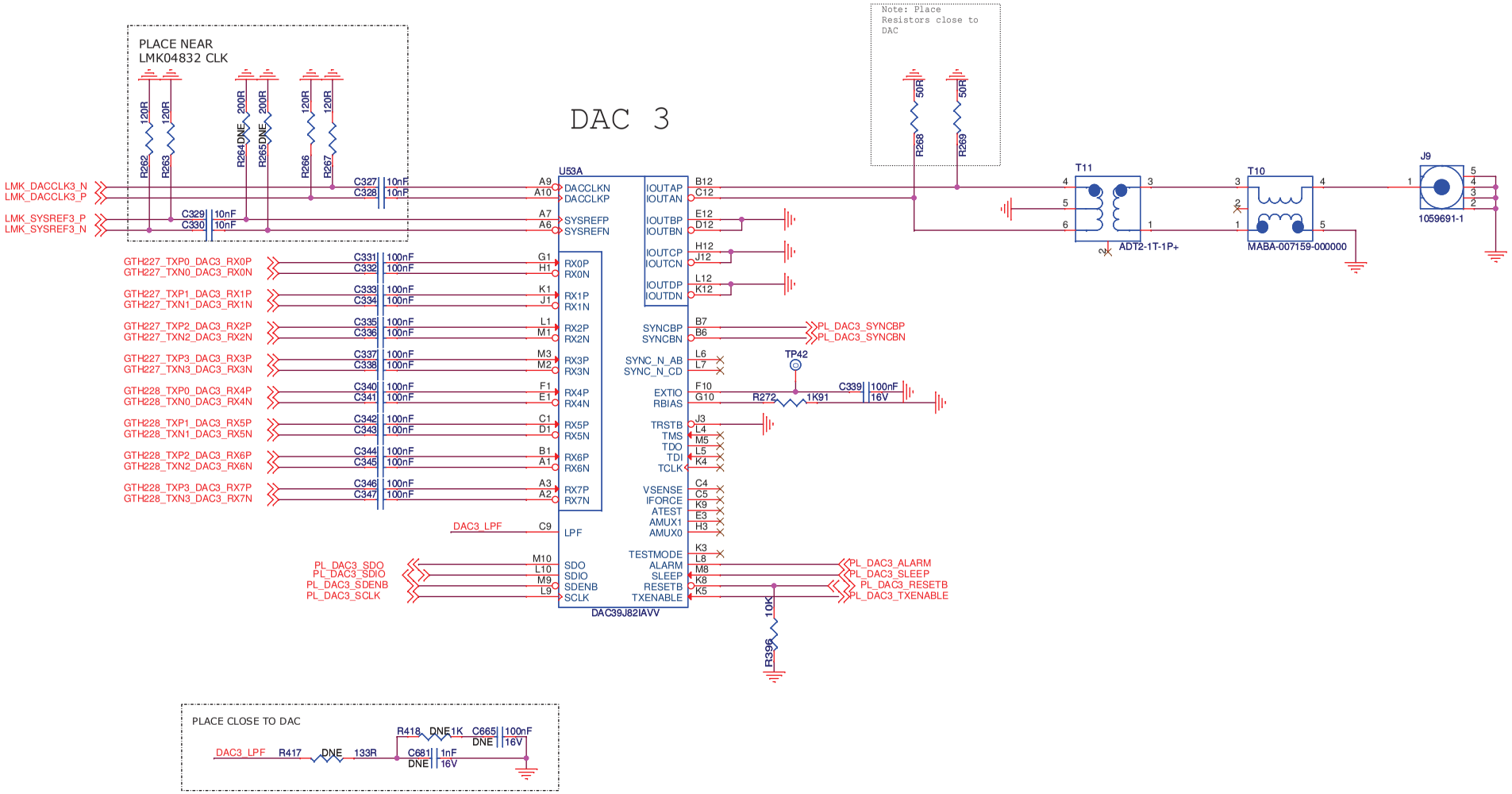

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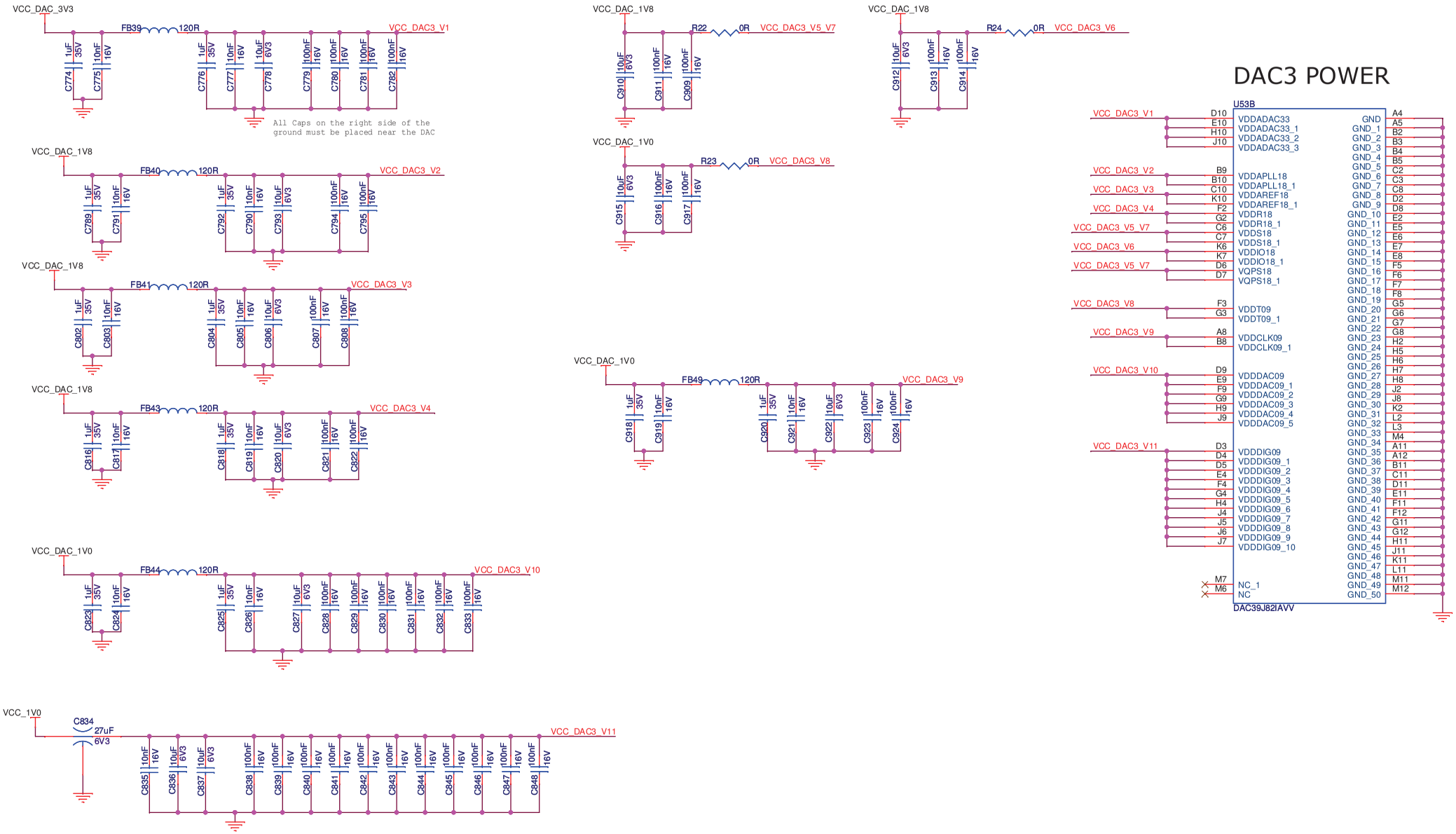

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