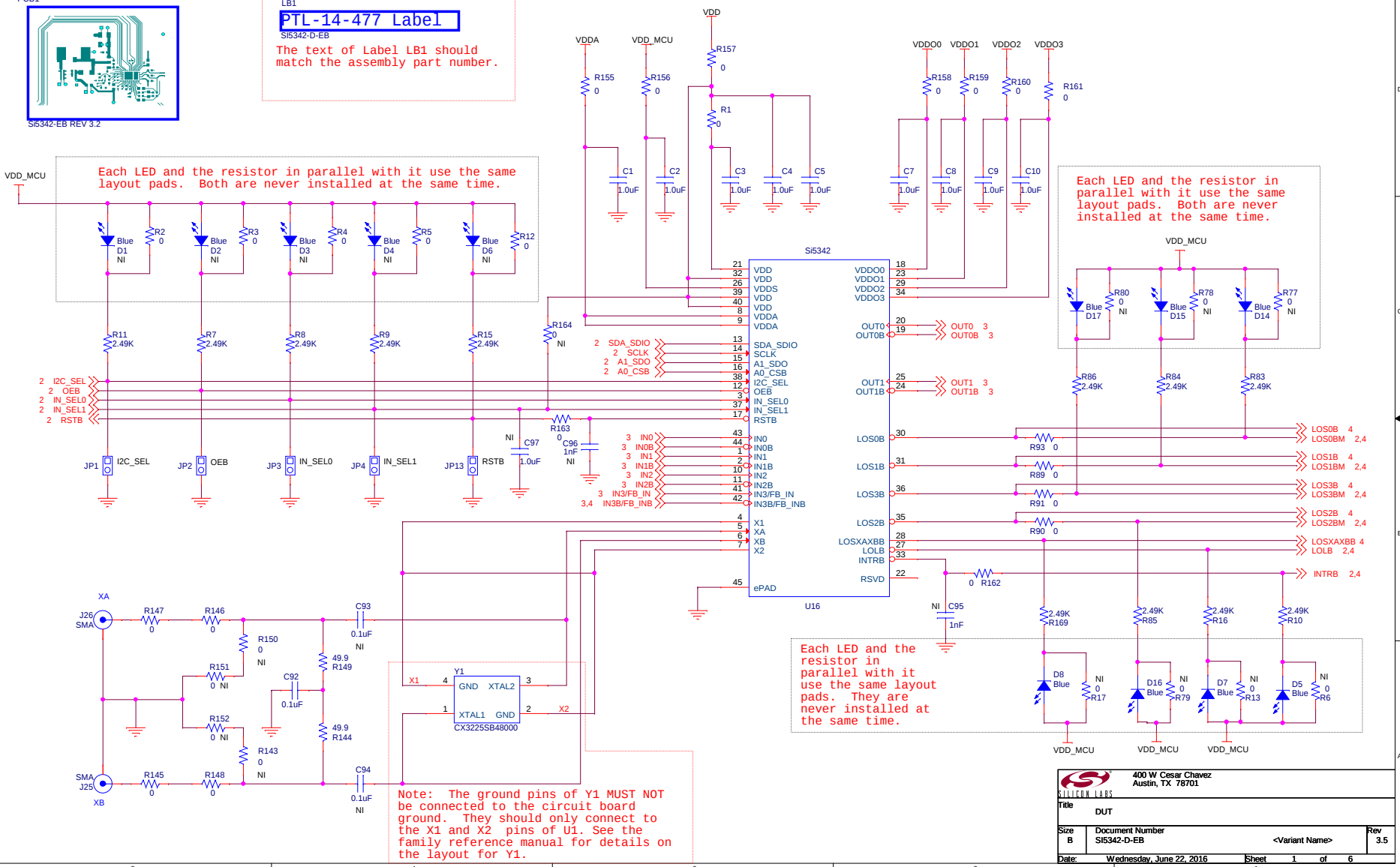


LB1

PTL-14-477 Label

SI5342-D-EB

The text of Label LB1 should match the assembly part number.



Board Address
101010 = 42d

ID0
ID1
ID2
ID3
ID4
ID5

J17 header allows the EVB MCU
to be connected to an
external Si5344. By doing
this the Silicon Labs GUI
software can read and write
to an external Si5342.

1 A0_CSB
1 SDA_SDI0
1 A1_SDO
1 SCLK

DUT
side

J17
MCU
side

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K
R64 2.49K
RED
D9

J20
NI

JP5
HEADER 1x3

FB1

C47 1uF
C48 10uF

+5V
Green
D11

J21
USB Type B

+V
D-
D+
GND

D10
SP0503BAHT

VDD_MCU
R71 1K

SW
PUSHBUTTON
MCU Reset

R74 1K

C52 1uF

J22
5X2 Shrouded Header
MCU PROGRAM

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

VDD_MCU
C41 1uF

5V_USB
R48 100

VDD_MCU
C42 1uF

R49 2.49K
R50 2.49K

VDD_MCU
R51 2.49K
R52 2.49K
R53 2.49K

C39 0.1uF
C40 0.1uF

U2
PCA9517D

VCCB
SCLB
SDAB
EN

VCCA
SCLA
SDAA
GND

TP1 BLUE
SCL_5V
NI

TP2 BLUE
SDA_5V
NI

SDA_MOSI
HEADER 1x1
J18
SDA

SCL_A/SCLK
HEADER 1x1
J19
SCL

VDD_MCU
R65 1K

DS2411
U4

I/O
VCC
NC1
NC2
NC3

GND

VDD_MCU
C45 0.1uF

SER_NUM

VDD_MCU

VDD_MCU

VDD_MCU

VDD
REGIN
VBUS

P1.0
P1.1
P1.2
P1.3
P1.4
P1.5
P1.6
P1.7

P2.0
P2.1
P2.2
P2.3
P2.4
P2.5
P2.6
P2.7

P3.0
P3.1
P3.2
P3.3
P3.4
P3.5
P3.6
P3.7

P4.0
P4.1
P4.2
P4.3
P4.4
P4.5
P4.6
P4.7

P5.0
P5.1
P5.2
P5.3
P5.4
P5.5
P5.6
P5.7

P6.0
P6.1
P6.2
P6.3
P6.4
P6.5
P6.6
P6.7

P7.0
P7.1
P7.2
P7.3
P7.4
P7.5
P7.6
P7.7

P8.0
P8.1
P8.2
P8.3
P8.4
P8.5
P8.6
P8.7

P9.0
P9.1
P9.2
P9.3
P9.4
P9.5
P9.6
P9.7

P10.0
P10.1
P10.2
P10.3
P10.4
P10.5
P10.6
P10.7

P11.0
P11.1
P11.2
P11.3
P11.4
P11.5
P11.6
P11.7

P12.0
P12.1
P12.2
P12.3
P12.4
P12.5
P12.6
P12.7

P13.0
P13.1
P13.2
P13.3
P13.4
P13.5
P13.6
P13.7

P14.0
P14.1
P14.2
P14.3
P14.4
P14.5
P14.6
P14.7

P15.0
P15.1
P15.2
P15.3
P15.4
P15.5
P15.6
P15.7

P16.0
P16.1
P16.2
P16.3
P16.4
P16.5
P16.6
P16.7

P17.0
P17.1
P17.2
P17.3
P17.4
P17.5
P17.6
P17.7

P18.0
P18.1
P18.2
P18.3
P18.4
P18.5
P18.6
P18.7

P19.0
P19.1
P19.2
P19.3
P19.4
P19.5
P19.6
P19.7

P20.0
P20.1
P20.2
P20.3
P20.4
P20.5
P20.6
P20.7

P21.0
P21.1
P21.2
P21.3
P21.4
P21.5
P21.6
P21.7

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

VDD_MCU
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R154 2.49K
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VDD_MCU
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R154 2.49K
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VDD_MCU
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R63 2.49K

VDD_MCU
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R154 2.49K
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VDD_MCU
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R154 2.49K
R63 2.49K

VDD_MCU
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R154 2.49K
R63 2.49K

VDD_MCU
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R154 2.49K
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VDD_MCU
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VDD_MCU
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R63 2.49K

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

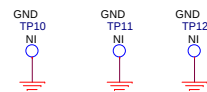
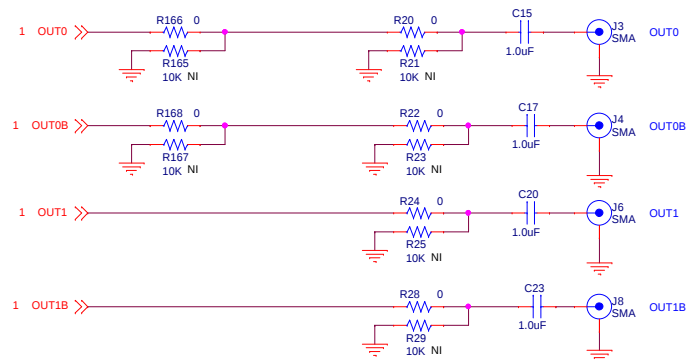
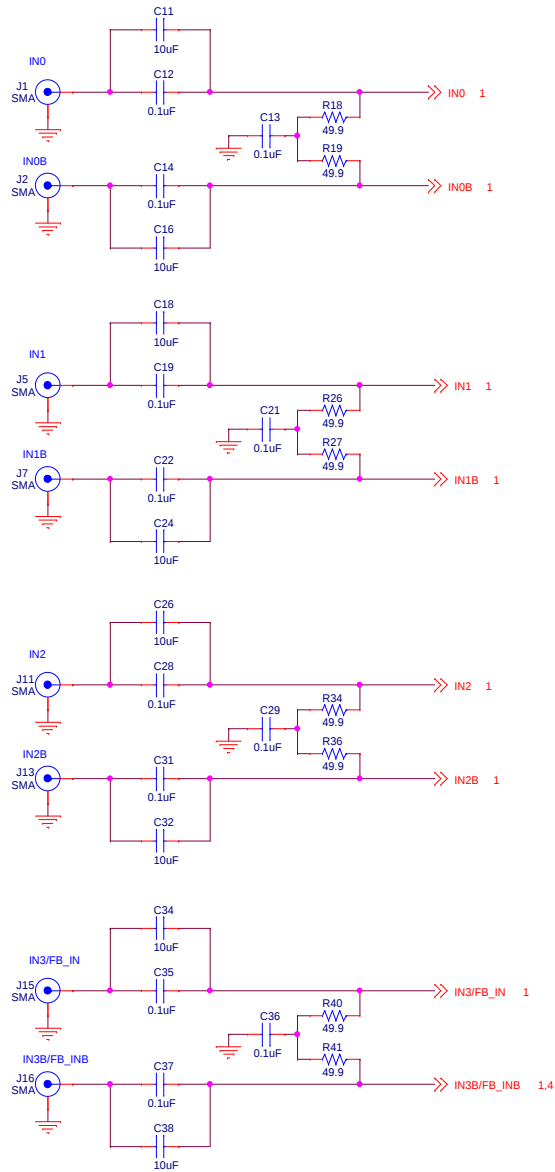
VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

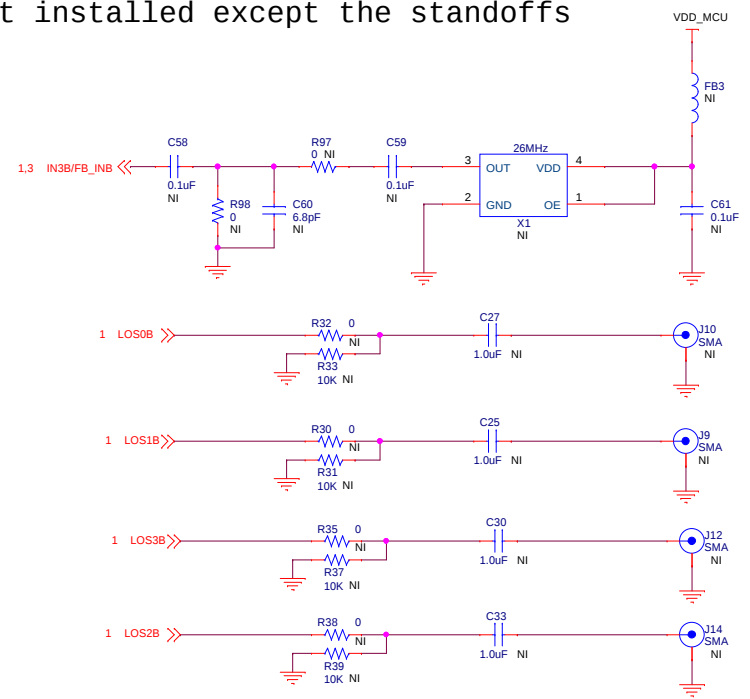
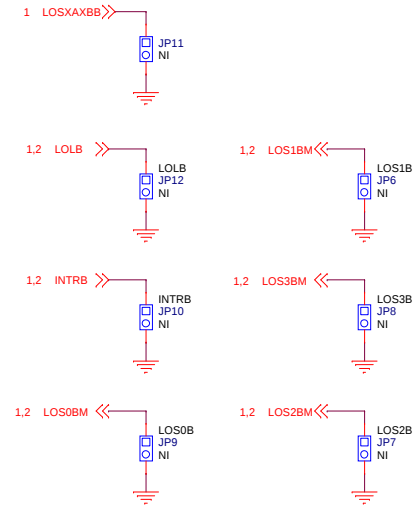
VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K

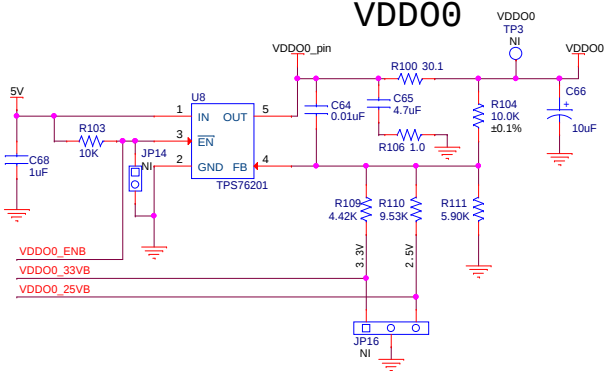
VDD_MCU
R62 2.49K
R154 2.49K
R63 2.49K



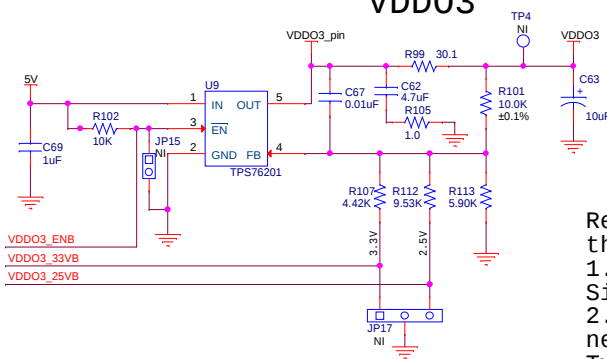
Note: All components on this page are not installed except the standoffs



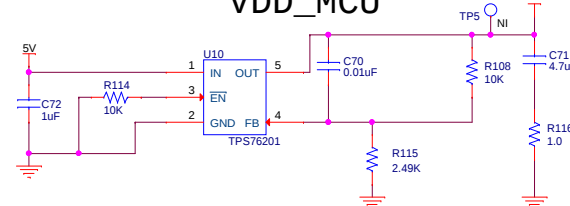
VDD00



VDD03



VDD_MCU

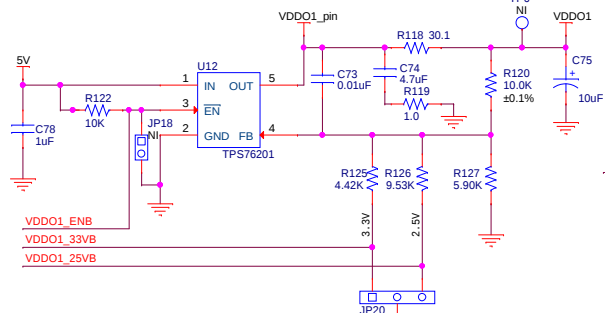


Regulators on this EVB are included to allow the EVB software to

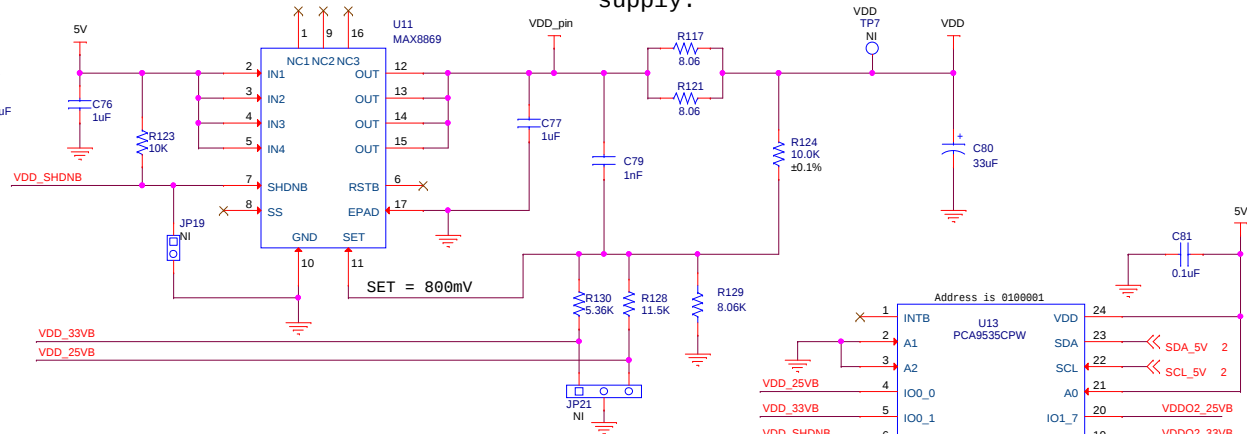
1. Measure the current to each VDD pin of the Si5342
2. Independently control VDD, VDD00/1/2/3, as needed by customer configurations.

Typical applications will not require independent regulation for each Si5342 VDD supply.

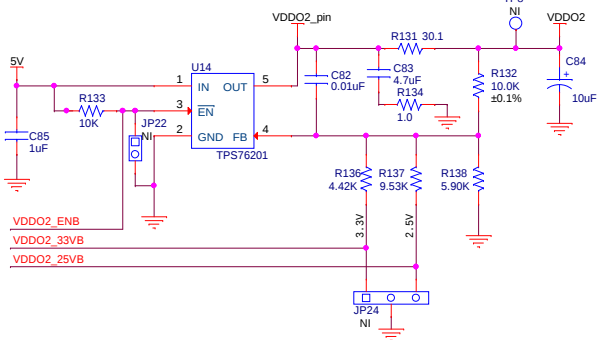
VDD01



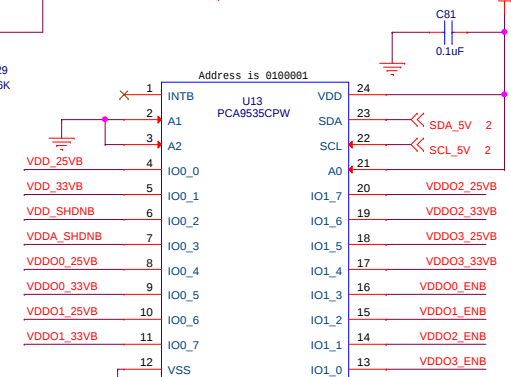
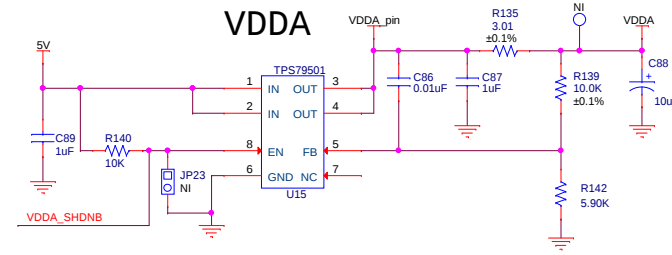
VDD



VDDS29



VDDA



REVISION HISTORY

Rev 3.3 - Jan 11, 2016, Initial Board Release
Added label and changed DUT to Si5342-D-GM.

Rev 3.4 - April 13, 2016, changed U3 to custom
part number CF380P0997AGQ

Rev 3.5 - June 22, 2016, added D8 and R17 to the
BOM, needed for the LOSXAXB signal. Renamed
net on pin 28 of the DUT from RSVD to LOSXAXBB