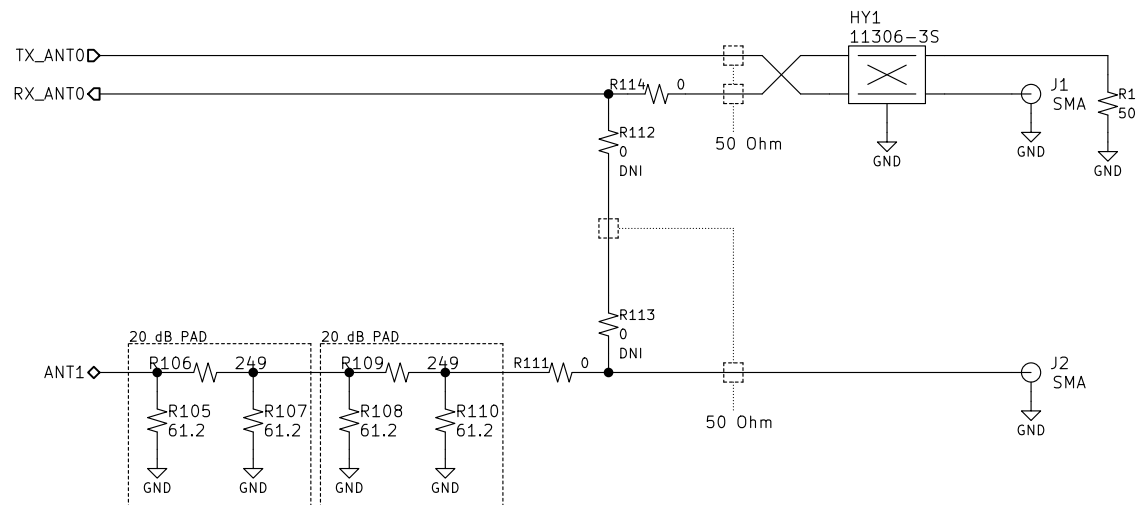


To Do:
1. Add limiter to RX_ANT0



Sheet: /Antenna/
File: Antenna.sch

Title:

Size: A4
KiCad E.D.A. kicad (5.1.5)-3

Date:

Rev:
Id: 2/17

Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	7.5 – 10.0
3V3	3.3	33.5 – 49.0
5V	5.0	29.3

Spurious Emissions

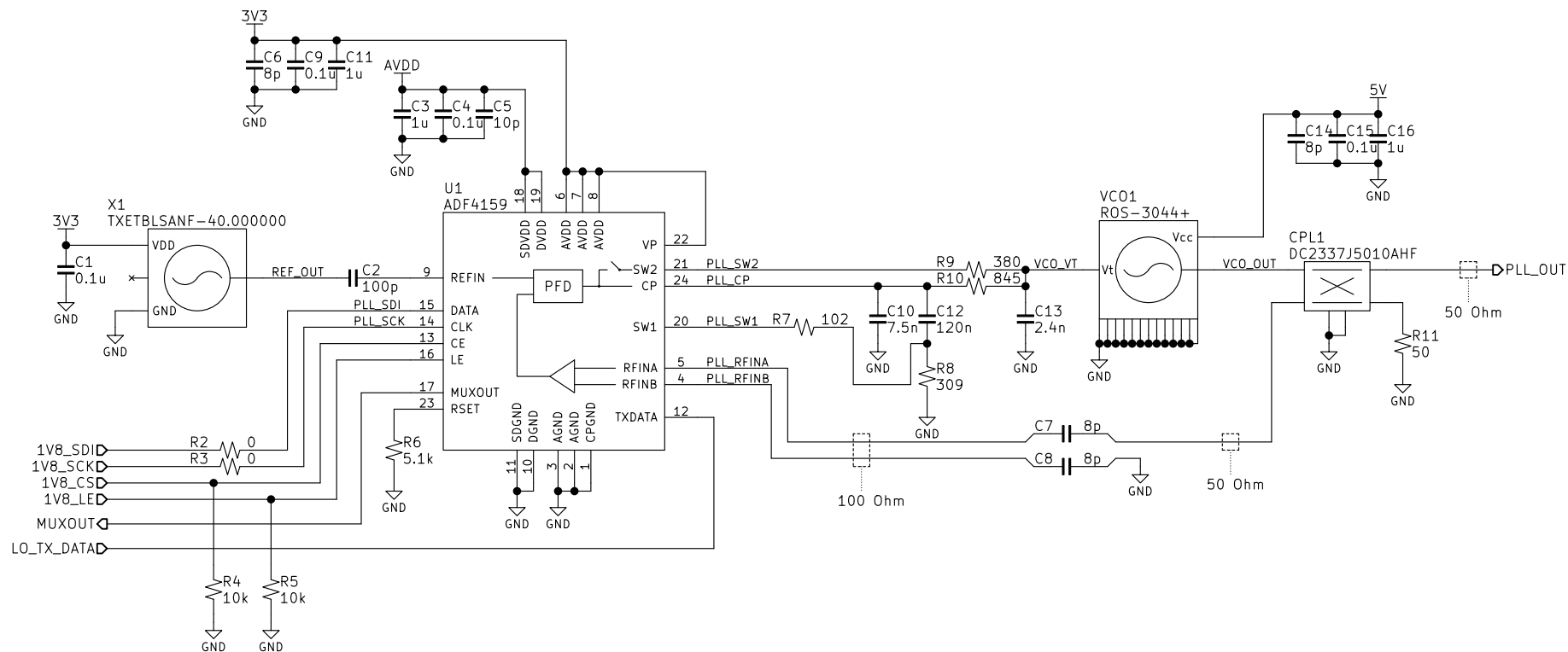
Harmonic	Rel. Power
1st	-28.7 dBc
2nd	-33.3 dBc
3rd	-56.4 dBc

Phase Noise

Offset	Spectral Density
100 Hz	-90 dBc
1 kHz	-100 dBc
10 kHz	-95 dBc
100 kHz	-110 dBc
1 MHz	-135 dBc

Power Output

6.9–7.8 dBm



Digital Lock Detect Triggers at 10 % Frequency Tolerance

Sheet: /LO Generation/
File: LOGenerator.sch

Title:

Size: A4

Date:

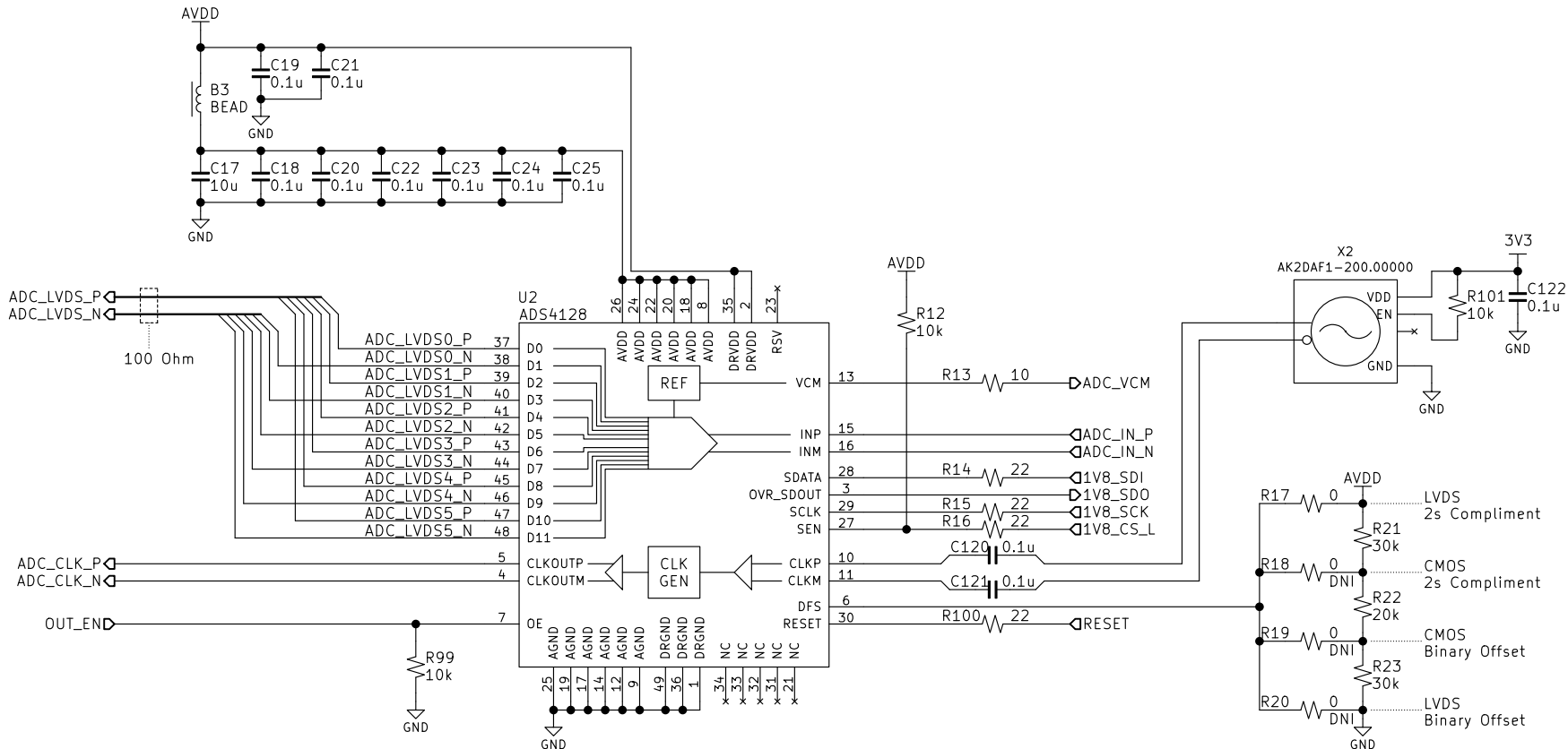
KiCad E.D.A.	kiCad (5.1.5)–3
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Rev:	
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Id: 3/17

Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	140–185
3V3	3.3	10–15
5V	5.0	N/A



Sheet: /ADC/
File: ADC.sch

Title:

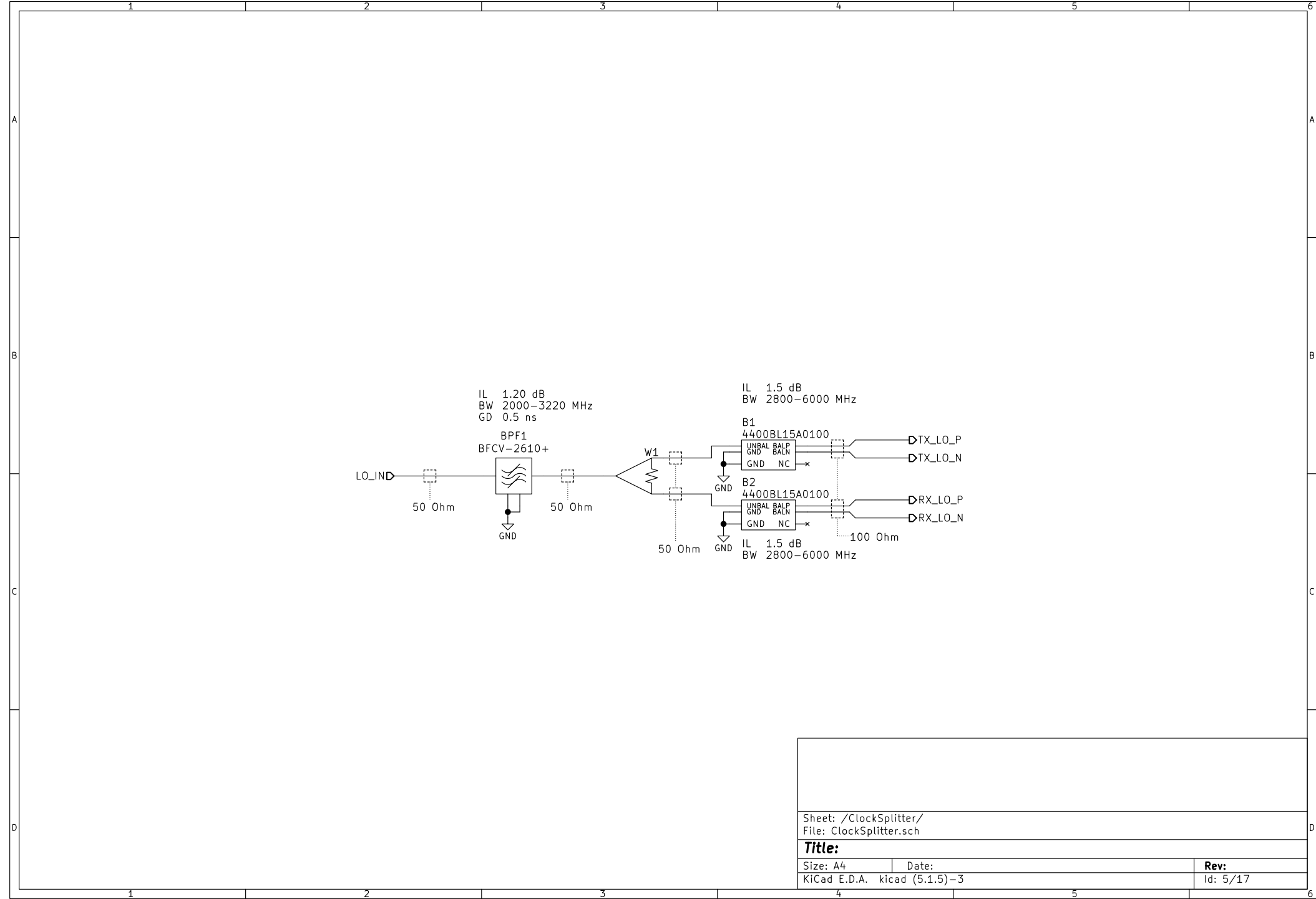
Size: A4

KiCad E.D.A. kicad (5.1.5)-3

Date:

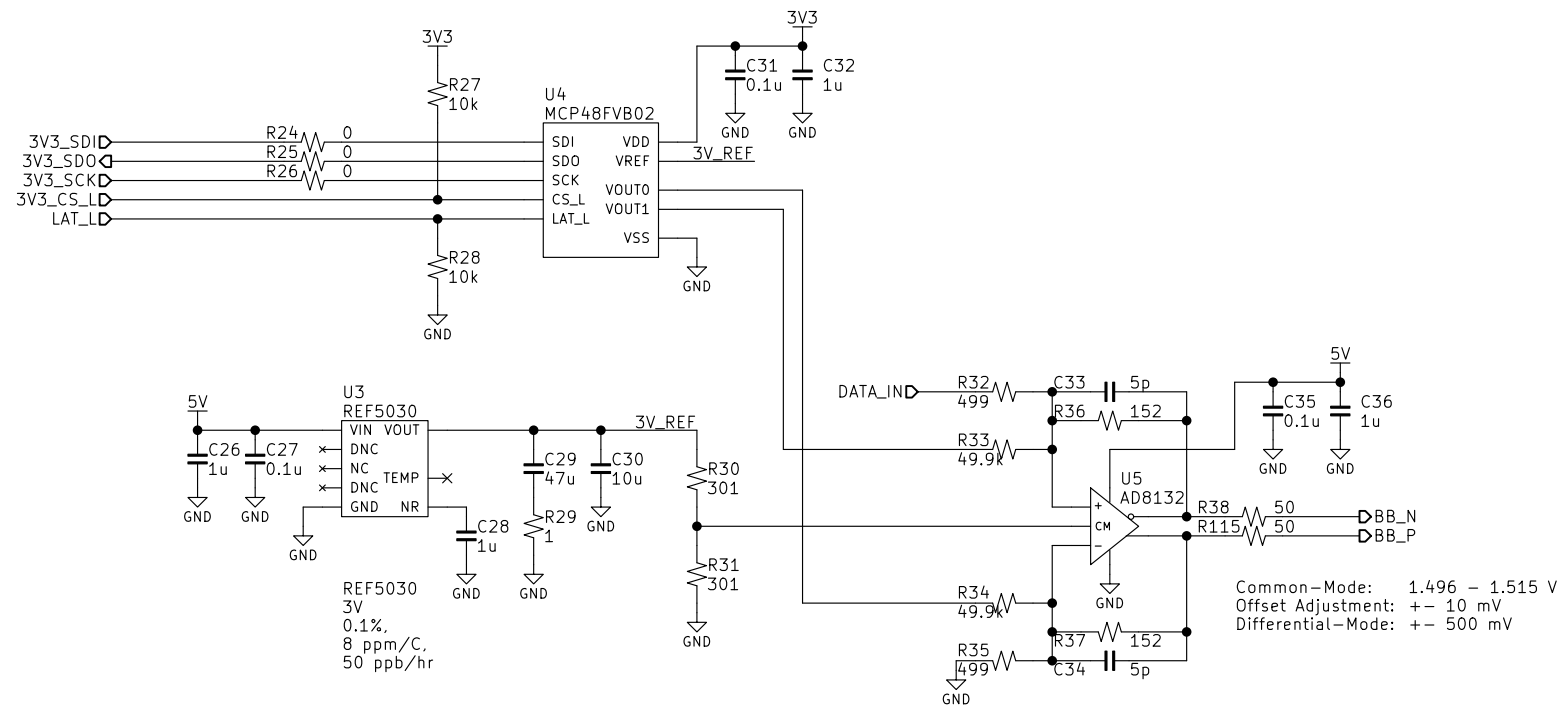
Rev:

Id: 4/17

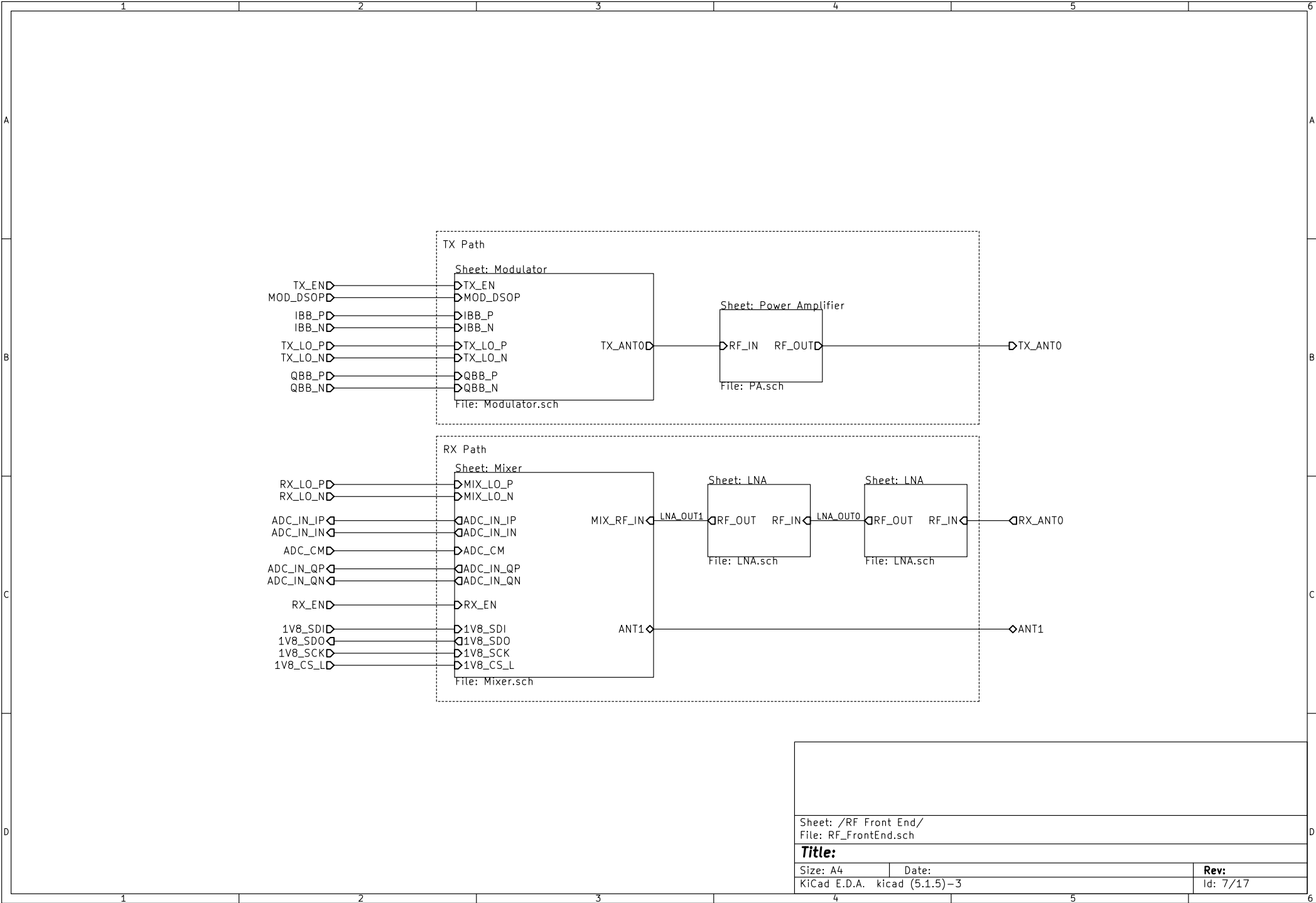


Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	N/A
3V3	3.3	0.51–1.85
5V	5.0	10.7–13.7

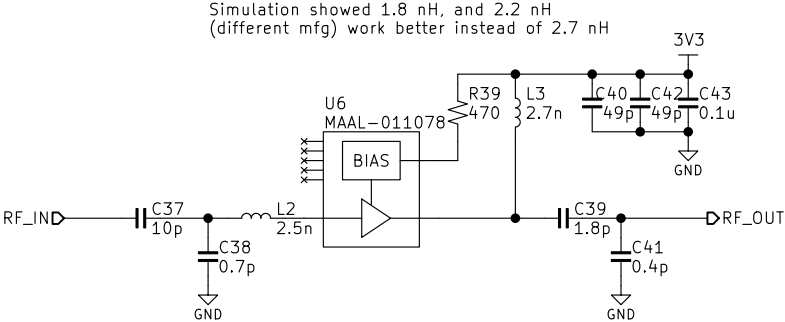


Common-Mode: 1.496 – 1.515 V
Offset Adjustment: +- 10 mV
Differential-Mode: +- 500 mV



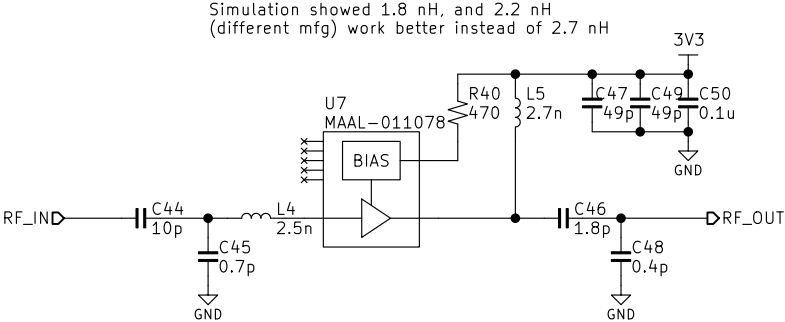
Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	N/A
3V3	3.3	43-53
5V	5.0	N/A



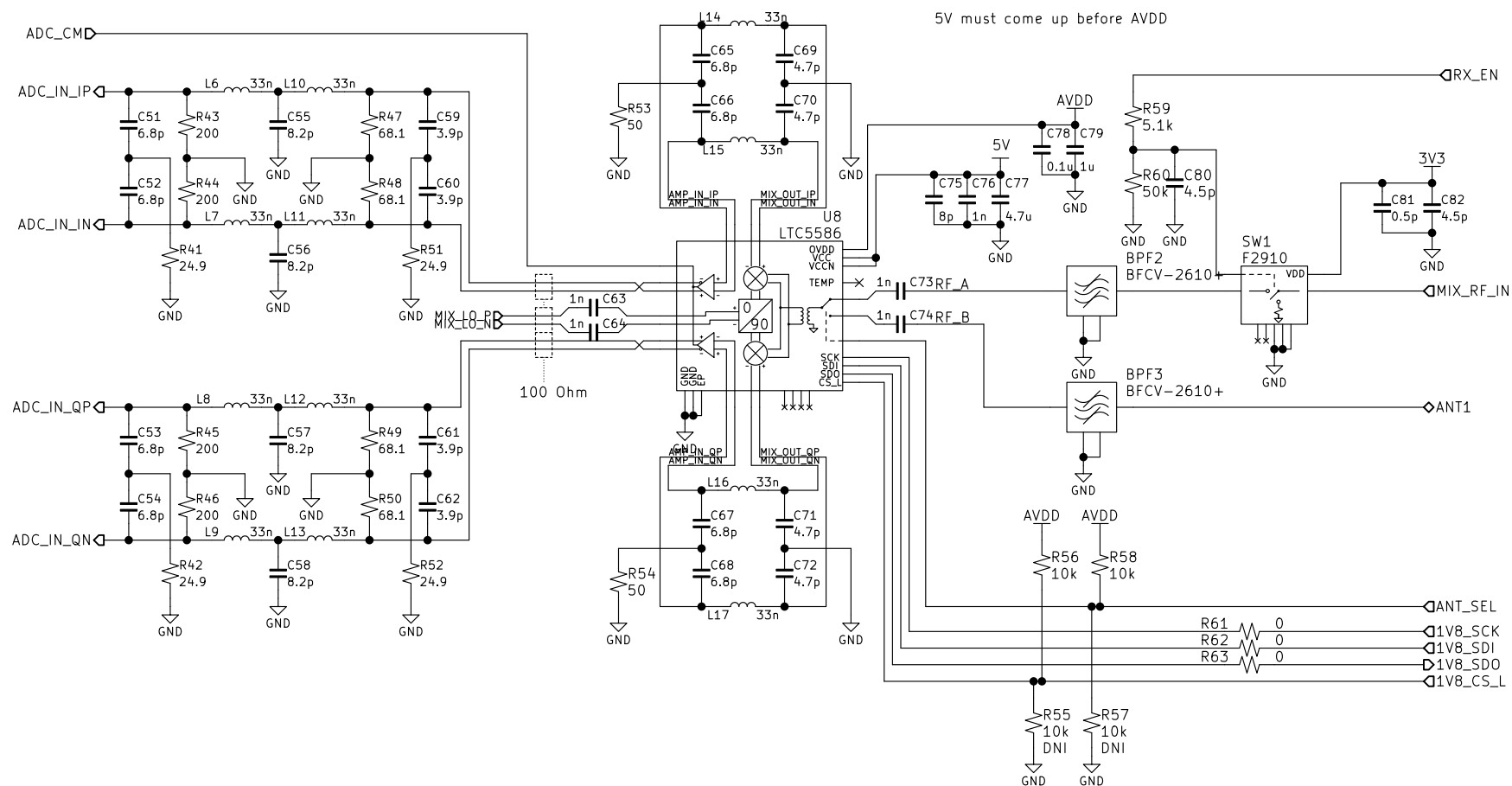
Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	N/A
3V3	3.3	43-53
5V	5.0	N/A



Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	< 1
3V3	3.3	N/A
5V	5.0	430-470



Sheet: /RF Front End/Mixer/
File: Mixer.sch

Title:

Size: A4

Date:

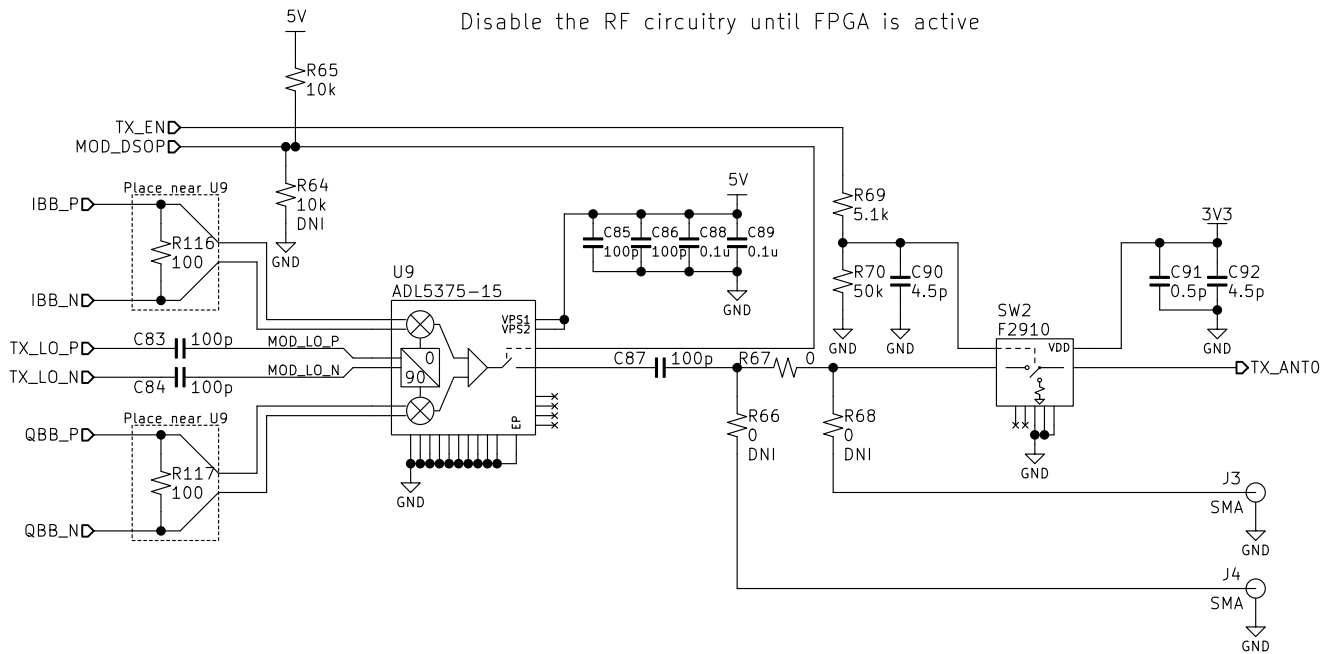
KiCad E.D.A. kicad (5.1.5)-3

Rev:

Id: 10/17

Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	N/A
3V3	3.3	N/A
5V	5.0	127-203



Sheet: /RF Front End/Modulator/
File: Modulator.sch

Title:

Size: A4
KiCad E.D.A. kicad (5.1.5)-3

Date:

Rev:

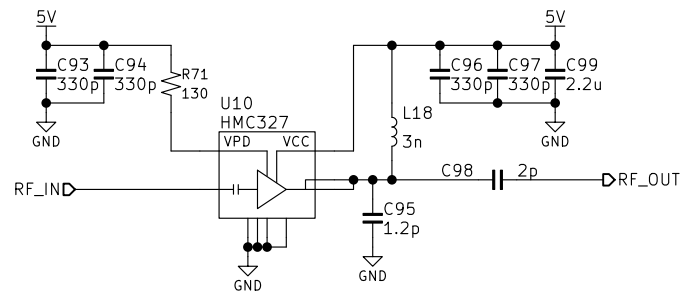
Id: 11/17

Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	N/A
3V3	3.3	N/A
5V	5.0	257

RF Performance – Datasheet

Gain	21.2 dB
Psat	30 dBm
OIP3	39 dBm
NF	6 dB



Sheet: /RF Front End/Power Amplifier/
File: PA.sch

Title:

Size: A4
KiCad E.D.A. kicad (5.1.5)–3

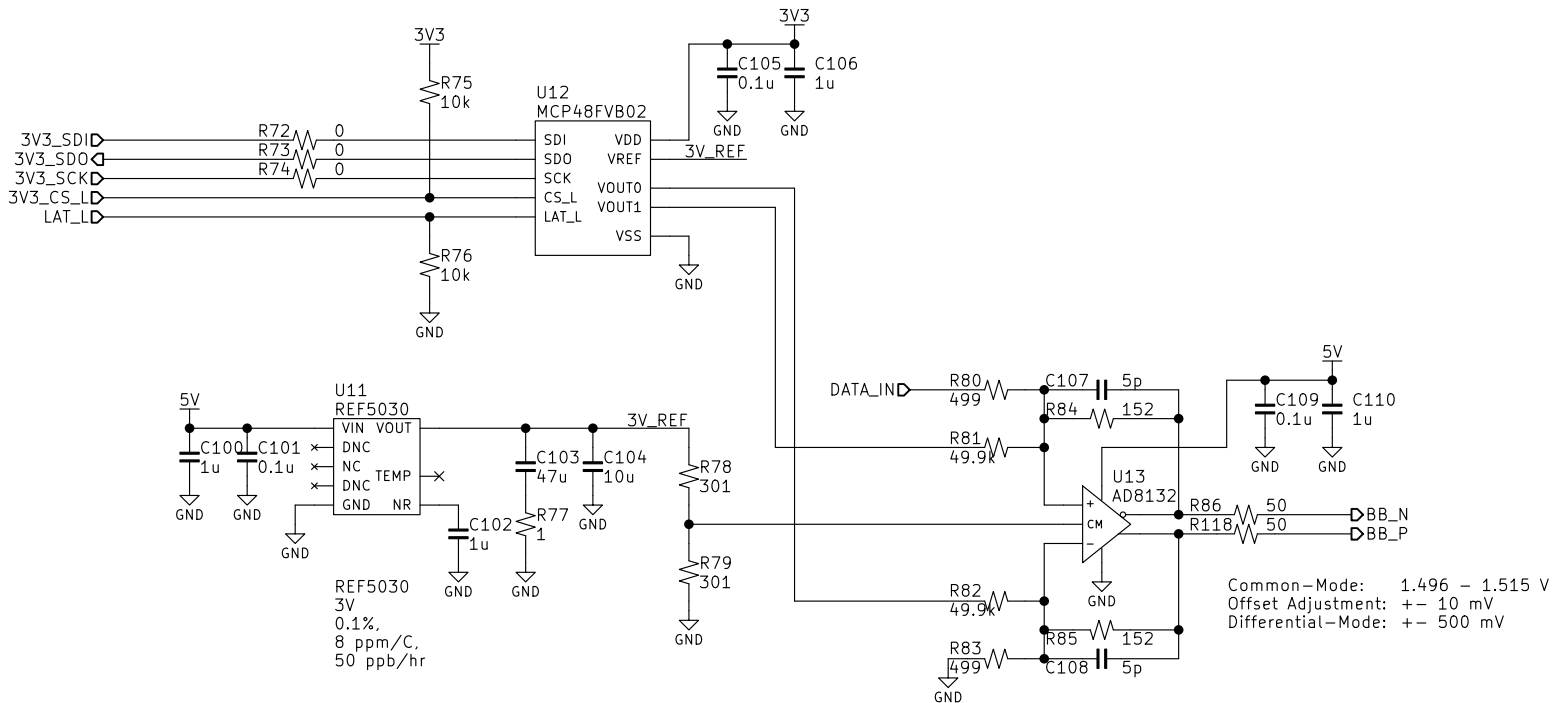
Date:

Rev:

Id: 12/17

Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	N/A
3V3	3.3	0.51–1.85
5V	5.0	10.7–13.7



Sheet: /I-Modulation Signal/
File: IQModulator.sch

Title:

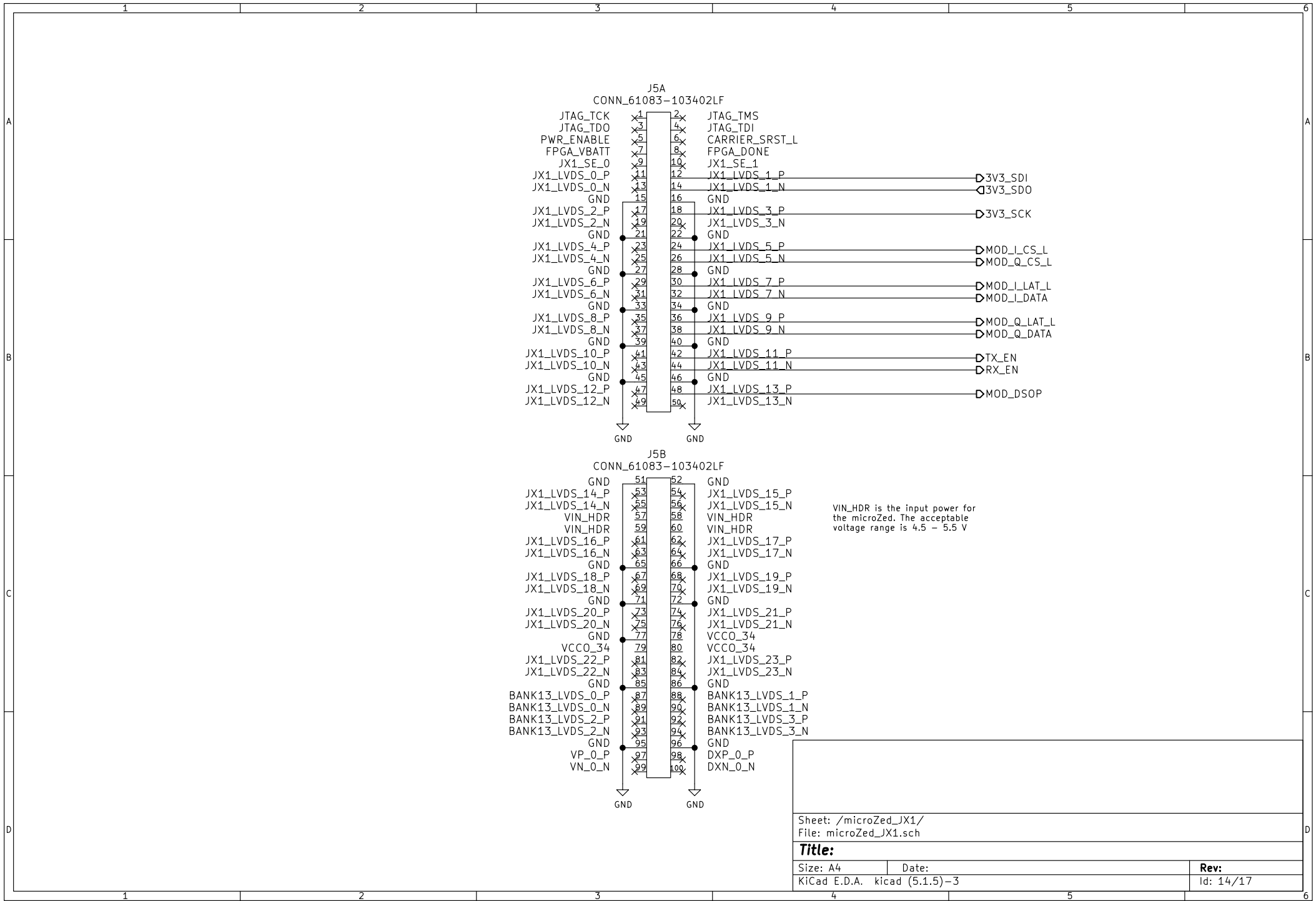
Size: A4

Date:

KiCad E.D.A. kicad (5.1.5)-3

Rev:

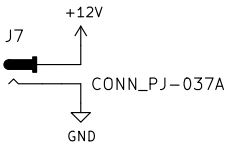
Id: 13/17



Sheet: /microZed_JX1/ File: microZed_JX1.sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (5.1.5)-3		Id: 14/17

Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	288.5-381
3V3	3.3	140.5-188.7
5V	5.0	864.7-986.7



Power Consumption

Rails	Voltage (V)	Current (mA)
AVDD	1.8	140-185
3V3	3.3	10-15
5V	5.0	N/A

