PSU_POS/2.3B

PSU_NEG/2.2D

TEENSY

ADS ctrl signals
- ADS_PWDN/3.4C
- ADS_RESET/3.4C
- ADS_START/3.4C
- ADS_DRDY/3.4C

RESET	VBAT
PGM	
0	VIN
1	3.3V
2	GND
3	AGND
4	23/A9
5	22/A8
6	21/A7
7	20/A6
8	19/A5
9	18/A4
10	17/A3
11	16/A2
12	15/A1
13	14/A0

VBAT

+3V3

GND

+3V3

LED1 LED2 LED3

R48 10k
R49 330
R50 330
R51 330

GND

NRF ctrl signals
- NRF_RESET
- NRF_RDYN
- NRF_REQN
- ADS_CS/3.4C

SPI
- MOSI/3.4C
- MISO/3.4C
- SCK/3.4C

TEENSY_3.0_BASIC-SMD

S1

GND

C66 +3V3 C65

1u   100n

GND

NRF_RESET

R41 10k

GND

U1

1	3.3V	RDYN	10
2	GND	MISO	9
3	RST	MOSI	8
4	RXD	REQN	7
5	TXD	SCK	6

NRF8001-OLIMEX

NRF_RDYN
MISO/3.4C
MOSI/3.4C
NRF_REQN
SCK/3.4C

PCB1

PCB
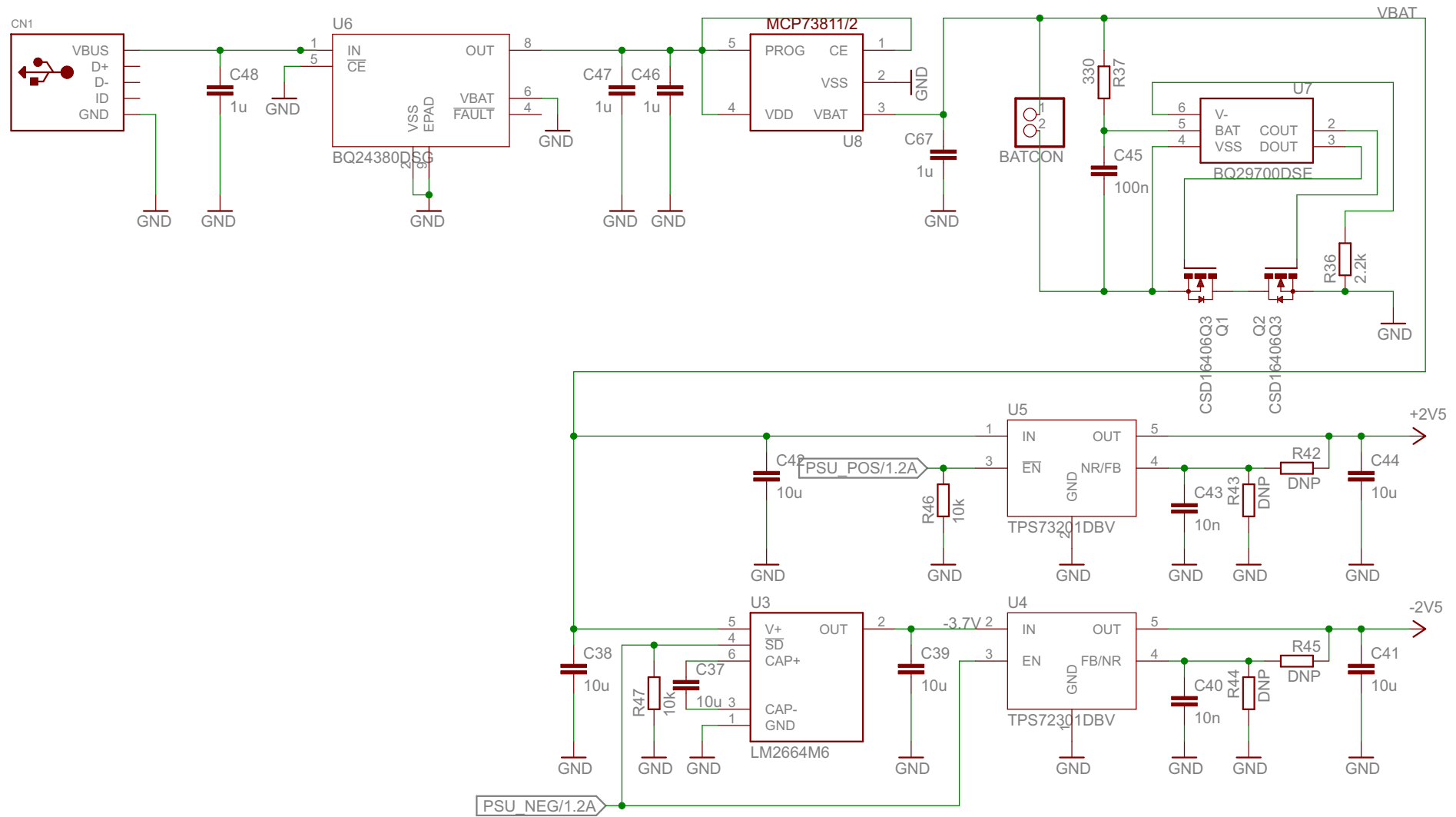
PCB_DP_RECTANGLE-6.2X10

BLE connected EMG recorder
MCU and BLE module

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CN1 — VBUS, D+, D-, ID, GND

U6 — BQ24380DSG
IN / CE, OUT, VSS, EPAD, VBAT, FAULT

C48 1u — GND
C47 1u — GND
C46 1u — GND

U8 — MCP73811/2
PROG, CE, VSS, VDD, VBAT

C67 1u — GND

VBAT

R37 330
C45 100n
BATCON 1 2
R36 2.2k

U7 — BQ29700DSE
V-, BAT, COUT, VSS, DOUT

Q1 CSD16406Q3
Q2 CSD16406Q3

U5 — TPS73201DBV
IN, OUT, EN, GND, NR/FB
+2V5
C42 10u — GND
PSU_POS/1.2A
R46 10k — GND
C43 10n — GND
R43 DNP — GND
R42 DNP
C44 10u — GND

U3 — LM2664M6
V+, SD, CAP+, CAP-, GND
-3.7V
C38 10u — GND
R47 10k — GND
C37 10u — GND
C39 10u — GND
PSU_NEG/1.2A

U4 — TPS72301DBV
IN, OUT, EN, GND, FB/NR
-2V5
C40 10n — GND
R44 DNP — GND
R45 DNP
C41 10u — GND

BLE connected EMG recorder
Power supply

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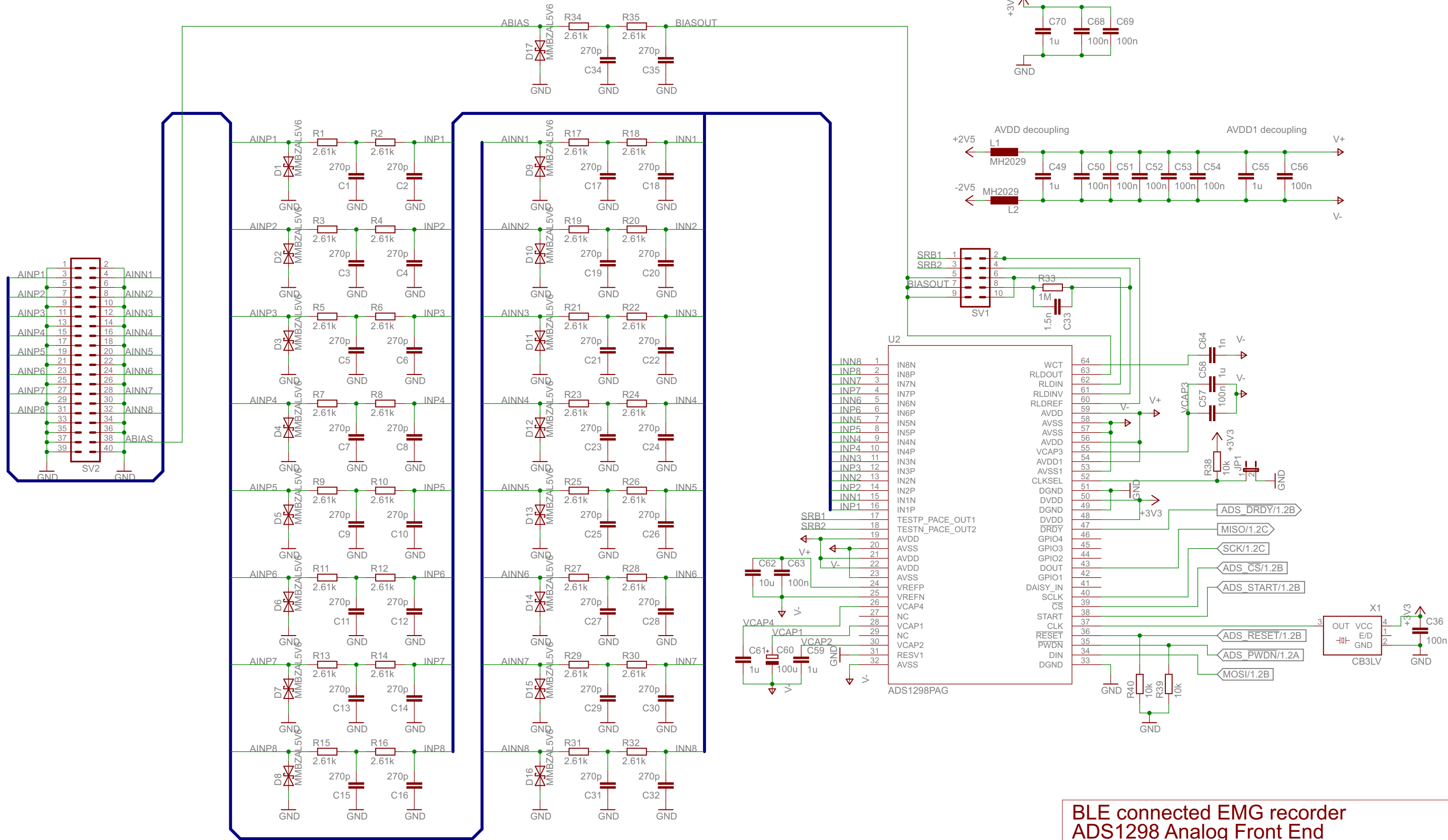
BLE connected EMG recorder
ADS1298 Analog Front End

TITLE: ble_emg_recorder_v11

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Date: nicht gespeichert!

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