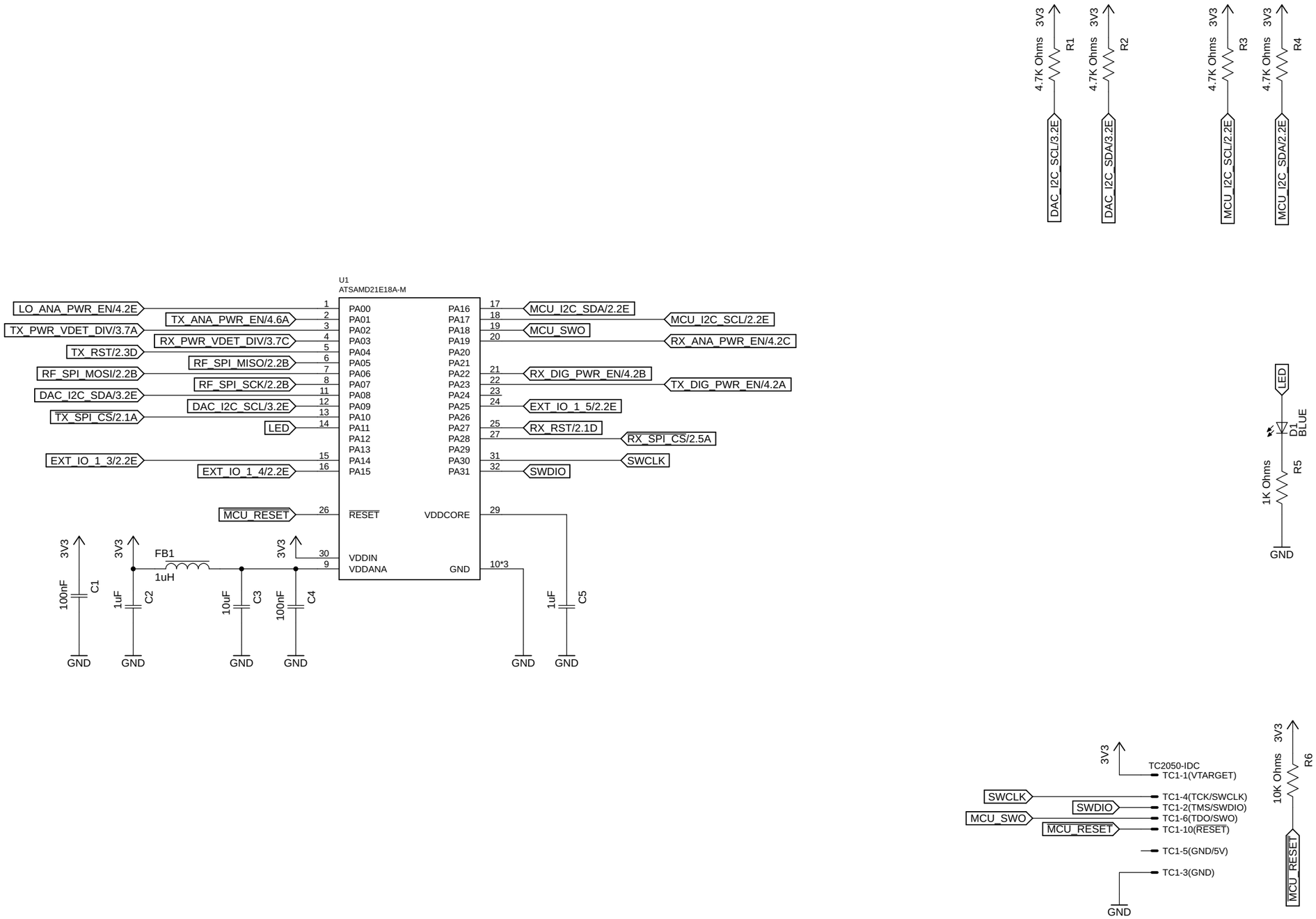

icyradio-exp-mmw-int-base	João Silva Logo
Sheet: 1/4	MCU
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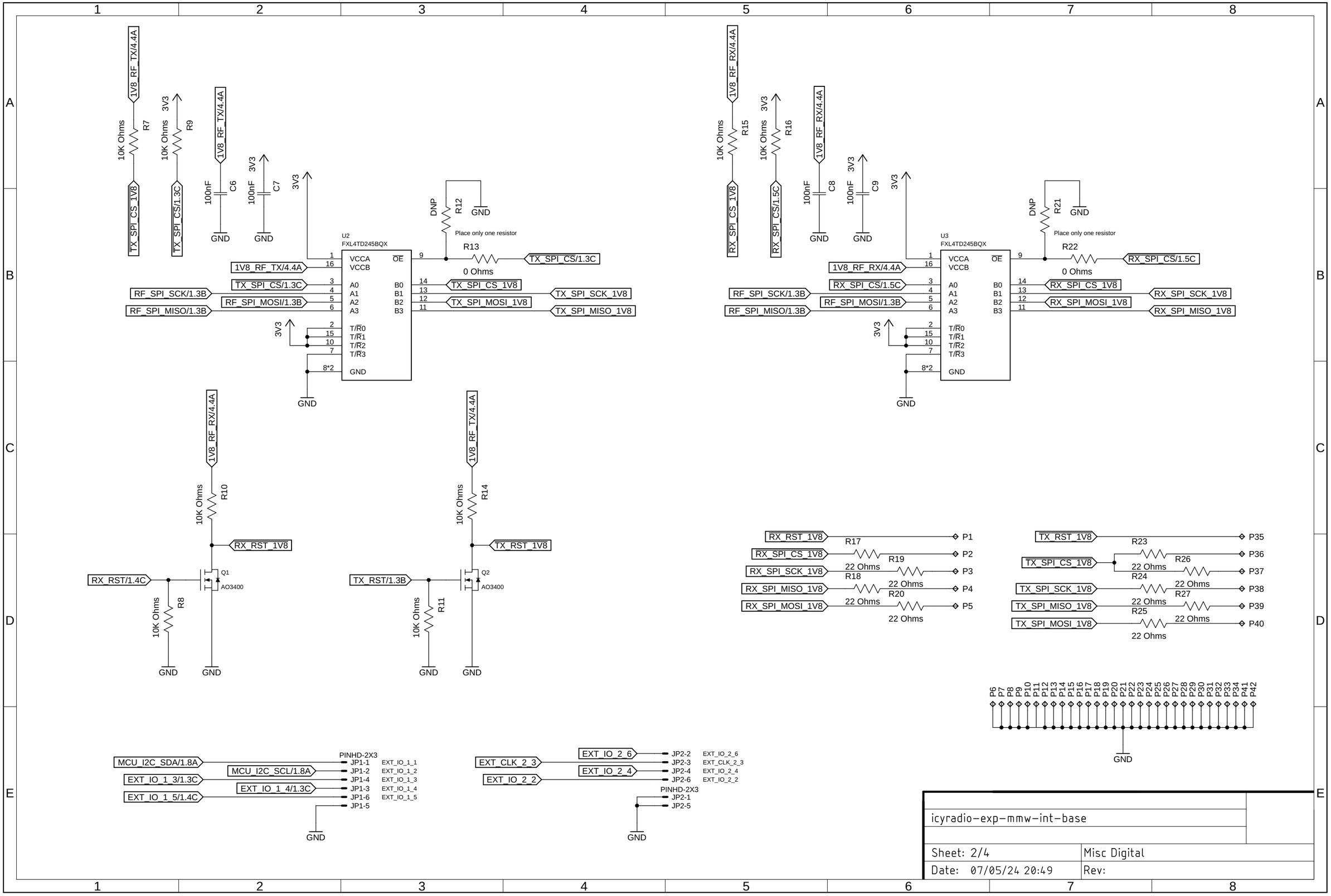

icyradio-exp-mmw-int-base

Sheet: 2/4 | Misc Digital

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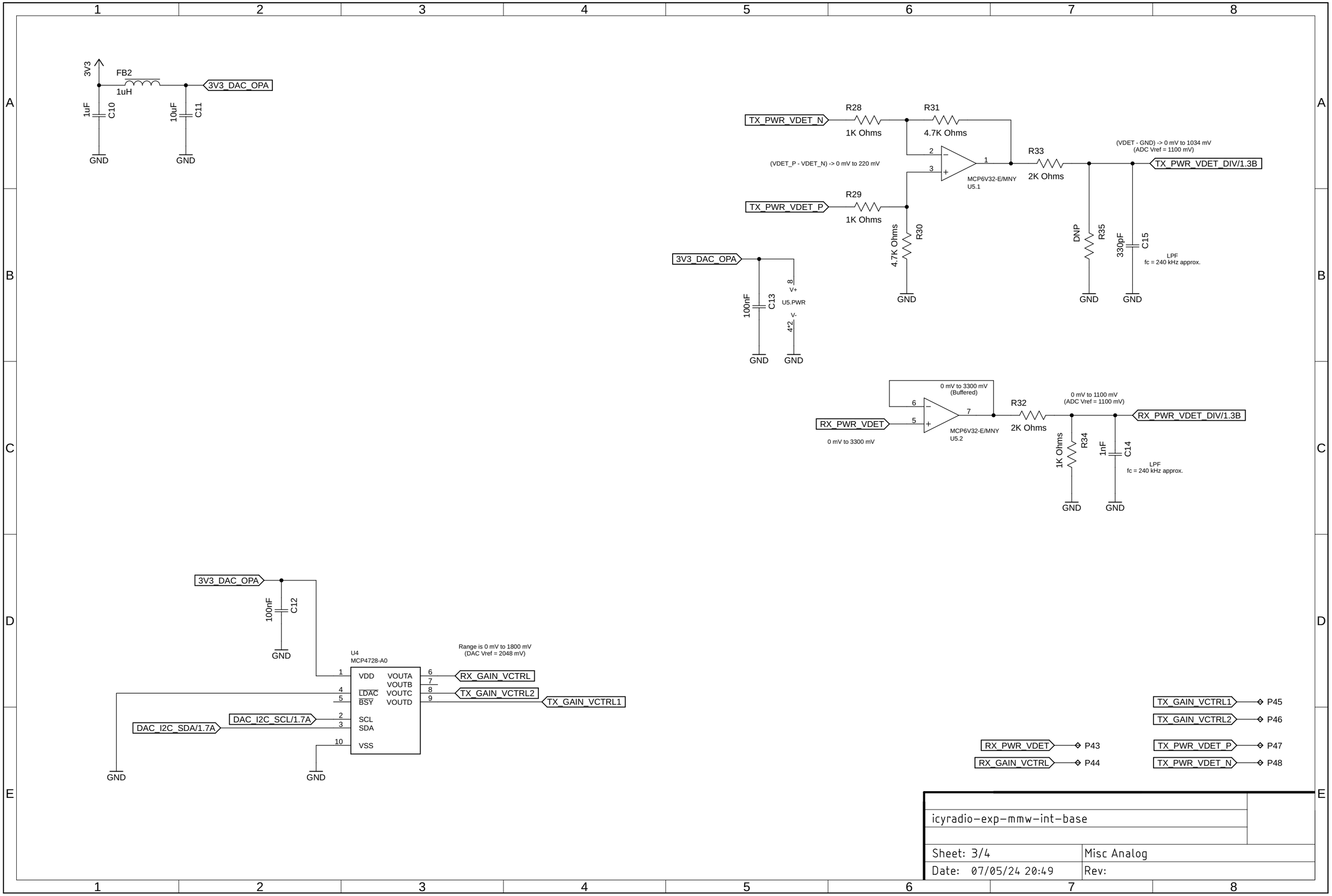
3V3
FB2
1uH
3V3_DAC_OPA
1uF
C10
10uF
C11
GND
GND
TX_PWR_VDET_N
R28
1K Ohms
R31
4.7K Ohms
(VDET_P - VDET_N) -> 0 mV to 220 mV
MCP6V32-E/MNY
U5.1
R33
2K Ohms
(VDET - GND) -> 0 mV to 1034 mV
(ADC Vref = 1100 mV)
TX_PWR_VDET_DIV/1.3B
TX_PWR_VDET_P
R29
1K Ohms
4.7K Ohms
R30
DNP
R35
330pF
C15
LPF
fc = 240 kHz approx.
3V3_DAC_OPA
100nF
C13
V+
U5.PWR
V-
4*2
0 mV to 3300 mV
(Buffered)
RX_PWR_VDET
0 mV to 3300 mV
MCP6V32-E/MNY
U5.2
R32
2K Ohms
0 mV to 1100 mV
(ADC Vref = 1100 mV)
RX_PWR_VDET_DIV/1.3B
1K Ohms
R34
1nF
C14
LPF
fc = 240 kHz approx.
3V3_DAC_OPA
100nF
C12
U4
MCP4728-A0
VDD
VOUTA
VOUTB
LDAC
VOUTC
BSY
VOUTD
SCL
SDA
VSS
Range is 0 mV to 1800 mV
(DAC Vref = 2048 mV)
RX_GAIN_VCTRL
TX_GAIN_VCTRL2
TX_GAIN_VCTRL1
DAC_I2C_SCL/1.7A
DAC_I2C_SDA/1.7A
TX_GAIN_VCTRL1 P45
TX_GAIN_VCTRL2 P46
RX_PWR_VDET P43
RX_GAIN_VCTRL P44
TX_PWR_VDET_P P47
TX_PWR_VDET_N P48
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Sheet: 3/4
Misc Analog
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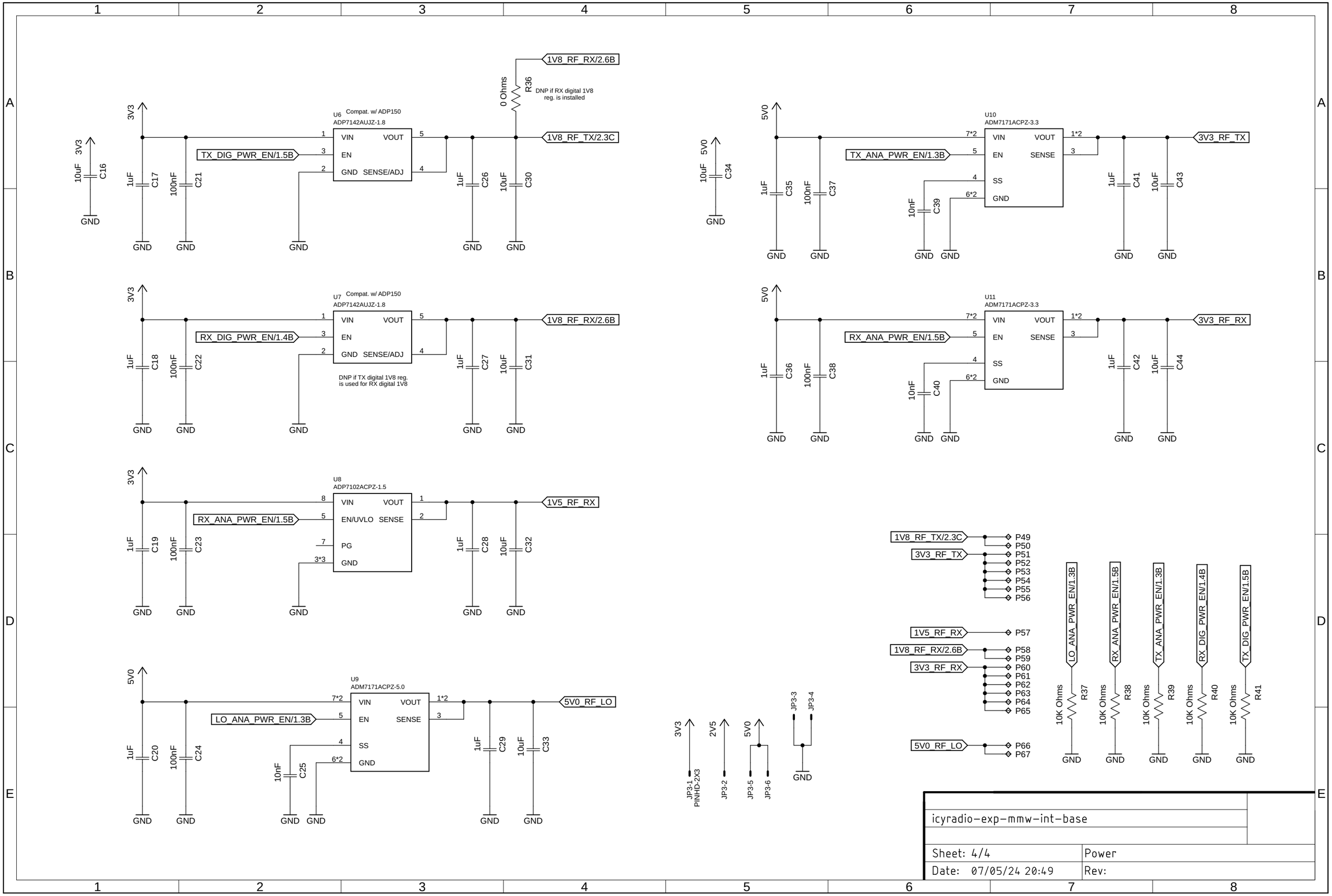

icyradio-exp-mmw-int-base

Sheet: 4/4	Power
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