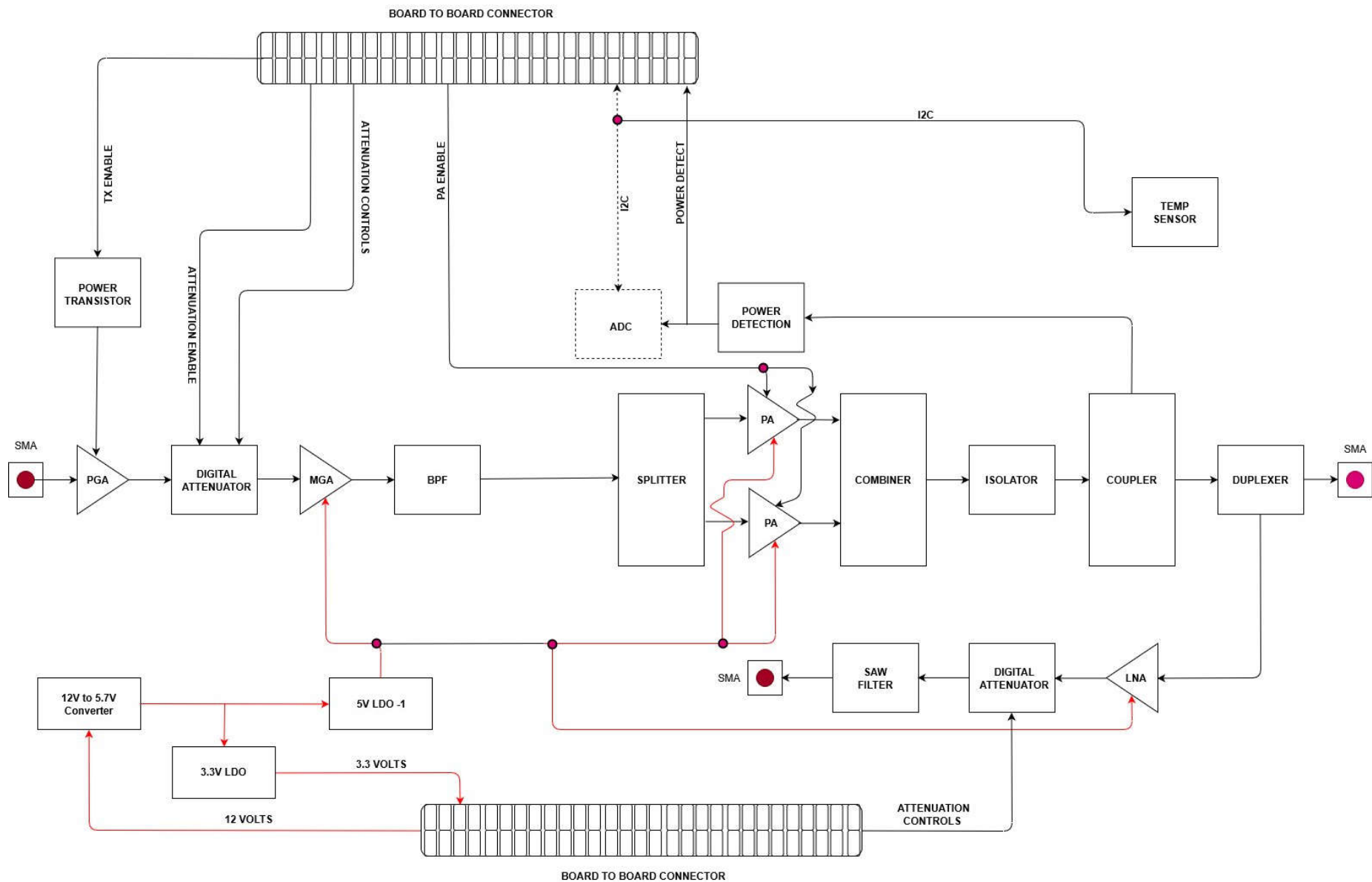


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RF Block Diagram

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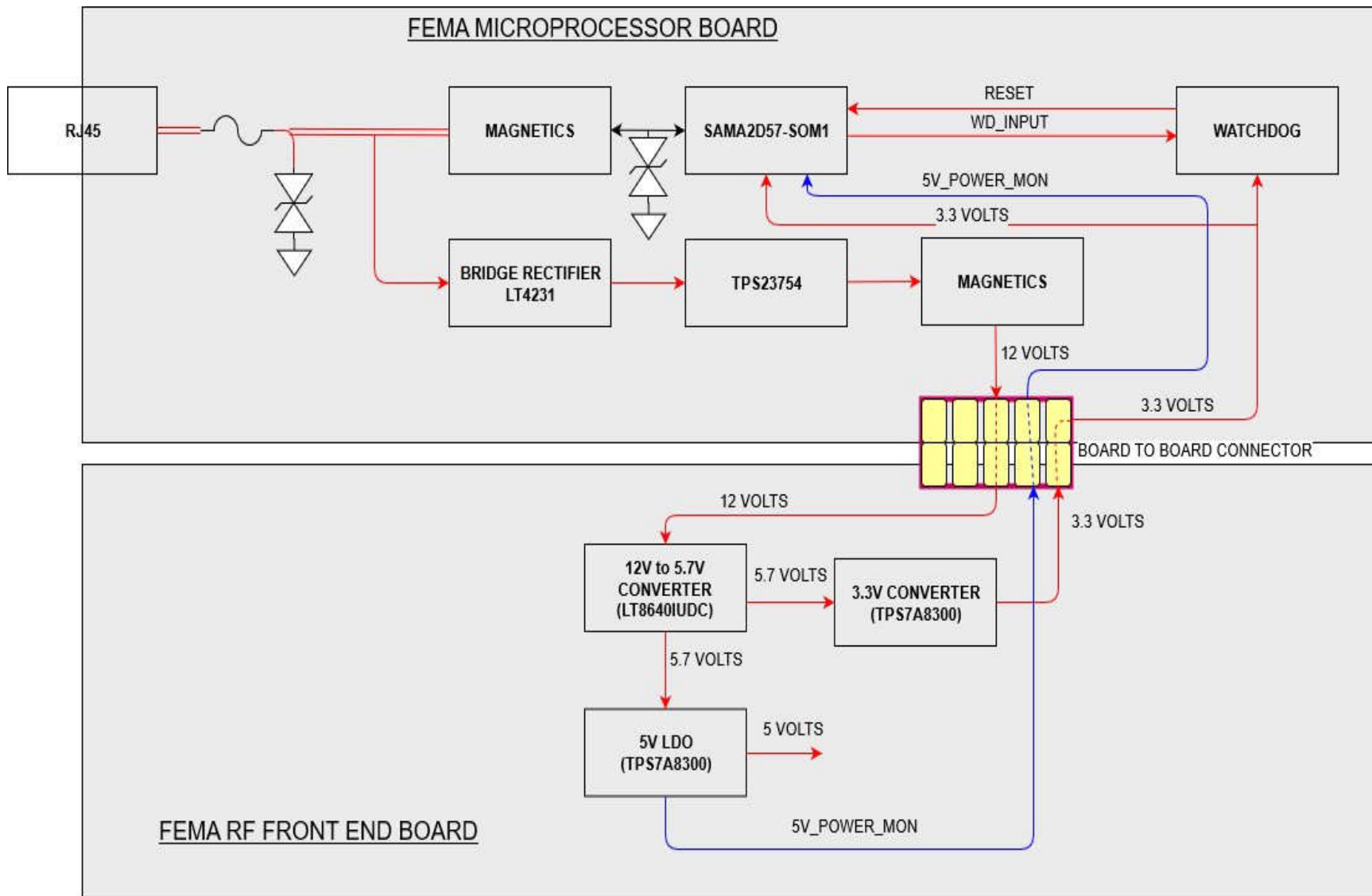
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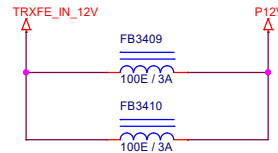
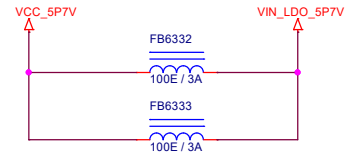
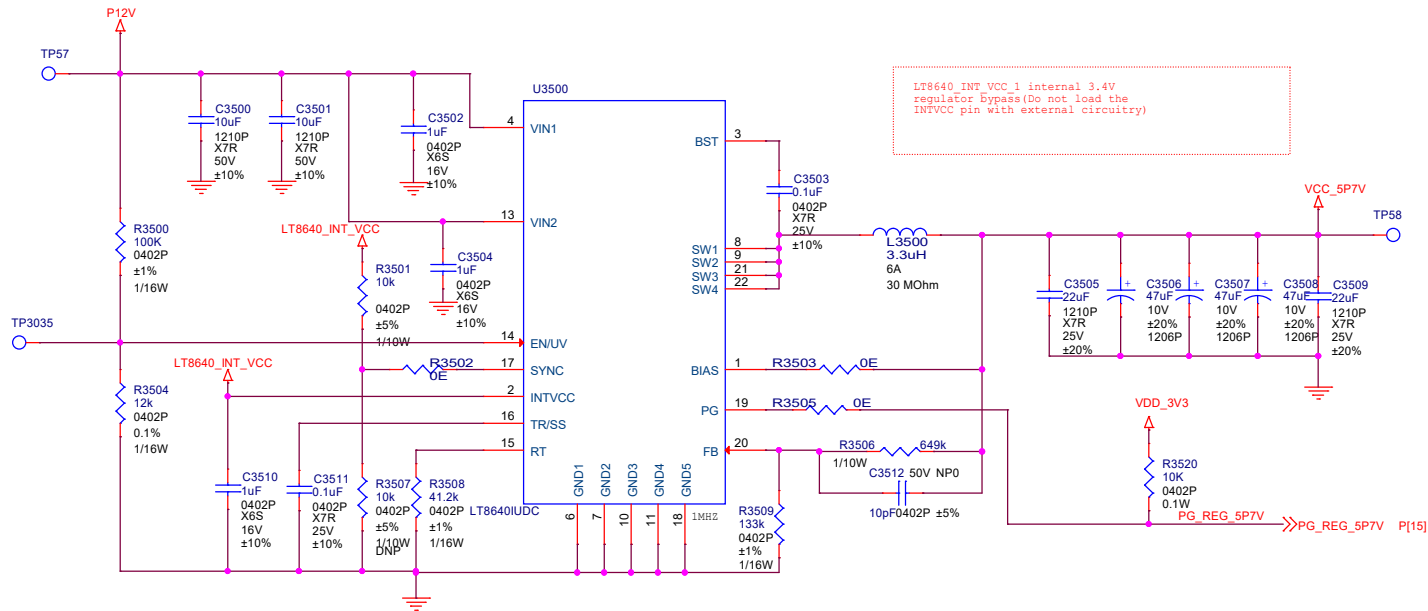
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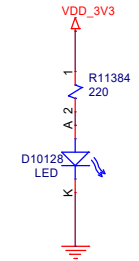
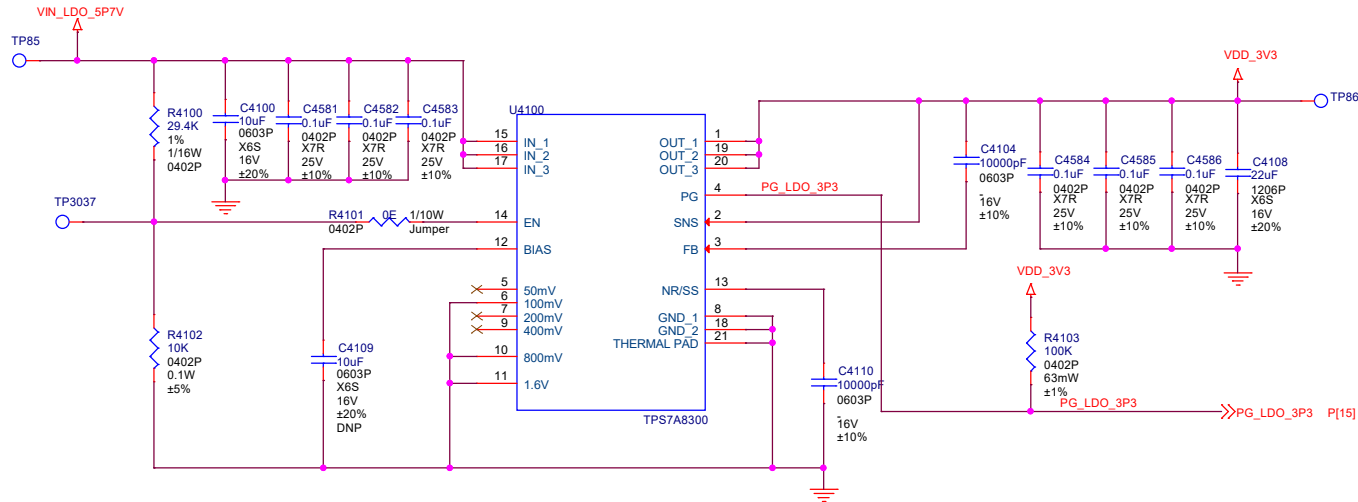
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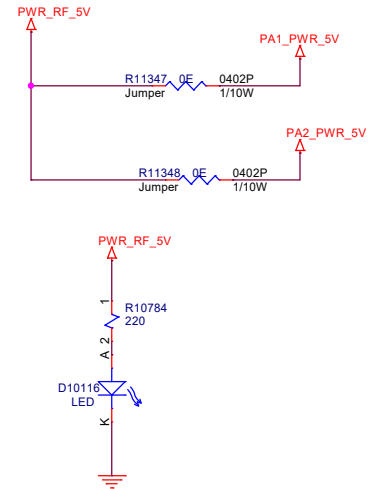
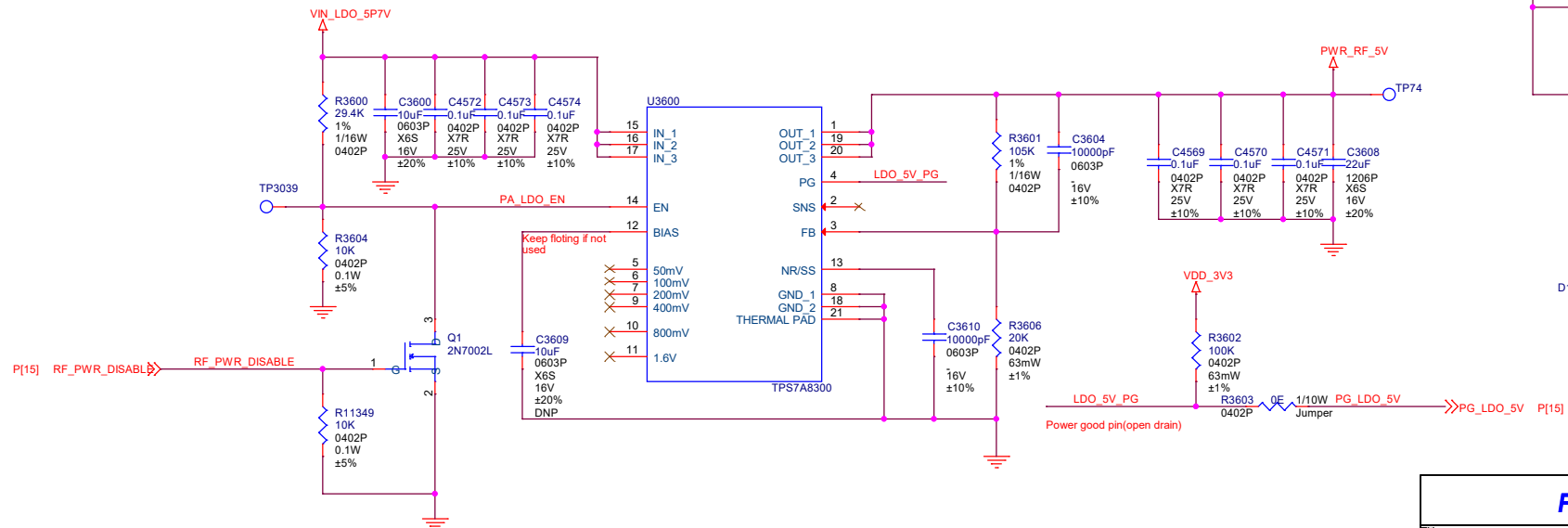
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3P3V_LDO



5V LDO



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The schematic diagram, titled "TX CHAIN", illustrates the transmitter output stage of the PGA-102+ device. The circuit is powered by a 3P3V_PGA supply. The TX_ATT_IN signal is coupled through a 0402P capacitor (C2215) and a 33pF capacitor (X7R) to the RF-IN pin of the U1500 RF-OUT/DC-IN block. The RF-IN pin is also connected to a 10pF capacitor (C4425) and a 0402P capacitor (NP0). The RF-OUT pin of U1500 is connected to the TX_RF_IN pin of the CON2 19S101-40ML5 connector. The TX_RF_IN pin is also connected to a 10pF capacitor (C4425) and a 0402P capacitor (NP0). The TX_ATT_OUT signal is coupled through a 0402P capacitor (C2215) and a 33pF capacitor (X7R) to the RF-IN pin of U1500. The RF-IN pin is also connected to a 10pF capacitor (C4425) and a 0402P capacitor (NP0). The RF-OUT pin of U1500 is connected to the TX_RF_IN pin of the CON2 19S101-40ML5 connector. The TX_RF_IN pin is also connected to a 10pF capacitor (C4425) and a 0402P capacitor (NP0). The TX_ATT_OUT signal is coupled through a 0402P capacitor (C2215) and a 33pF capacitor (X7R) to the RF-IN pin of U1500. The RF-IN pin is also connected to a 10pF capacitor (C4425) and a 0402P capacitor (NP0). The RF-OUT pin of U1500 is connected to the TX_RF_IN pin of the CON2 19S101-40ML5 connector. The TX_RF_IN pin is also connected to a 10pF capacitor (C4425) and a 0402P capacitor (NP0).

[illegible]

The schematic diagram illustrates a 12V power supply and LED circuit for stand alone board testing. The circuit is divided into two main sections: the 12V SUPPLY and the 12V LED.

12V SUPPLY Section:

- The input is labeled **TRXFE_IN_12V**.
- The input signal passes through a diode **D5** (B530C-13-F).
- The output of the diode is connected to a resistor **D10** (SMDJ16CA).
- The output of the resistor is connected to a terminal block with two terminals, **TP3041** and **TP3042**.
- The output of the terminal block is connected to a ground symbol.
- The output of the terminal block is also connected to a ground symbol.

12V LED Section:

- The input is labeled **TRXFE_IN_12V**.
- The input signal passes through a resistor **R513** (620E 0805P 0.4W ±5%).
- The output of the resistor is connected to a diode **D10126** (LED).
- The output of the diode is connected to a ground symbol.

12V power supply for stand alone board testing

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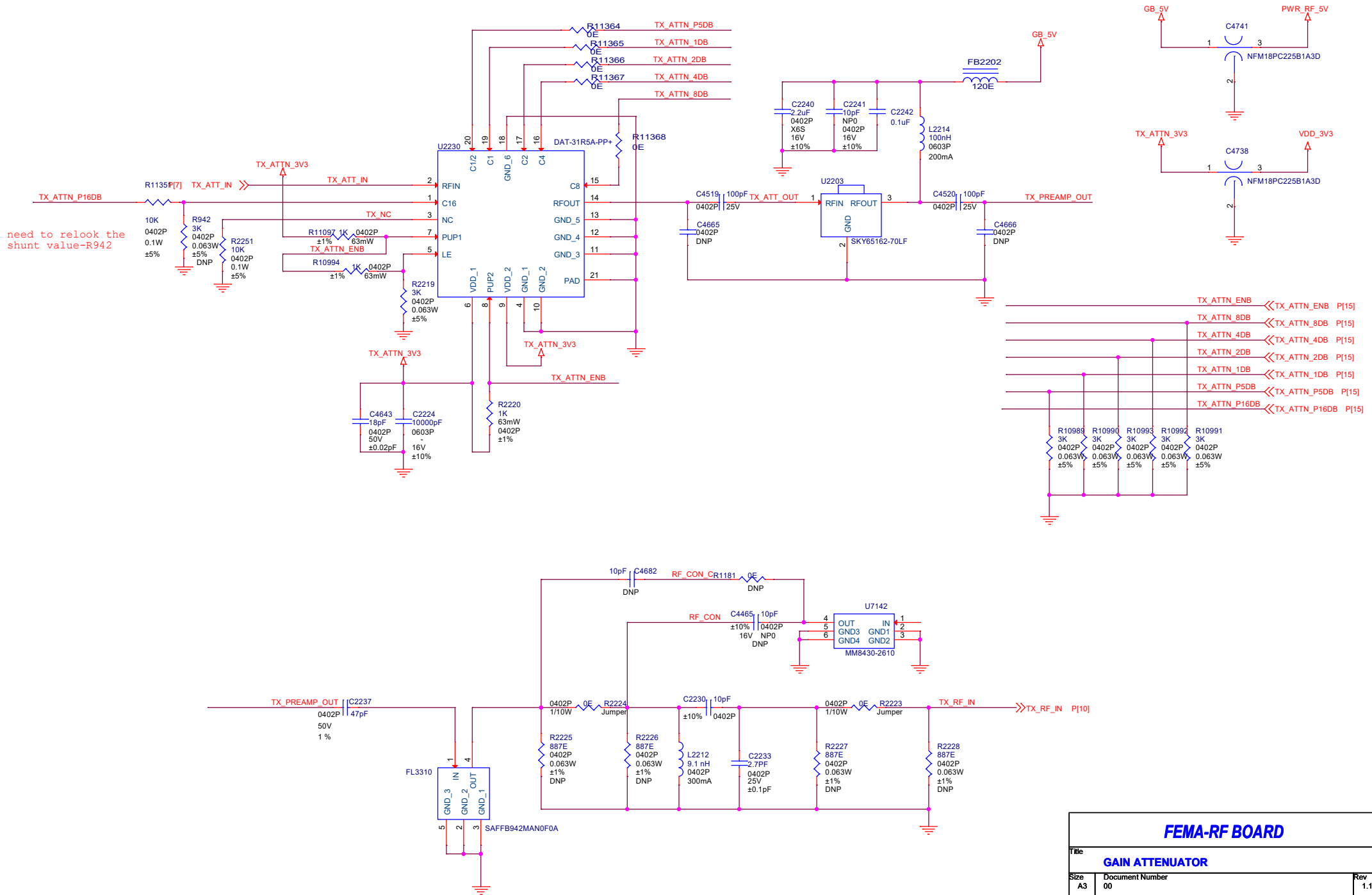
PA_ENABLE_CIRCUIT

TX_RF_CONNECTOR

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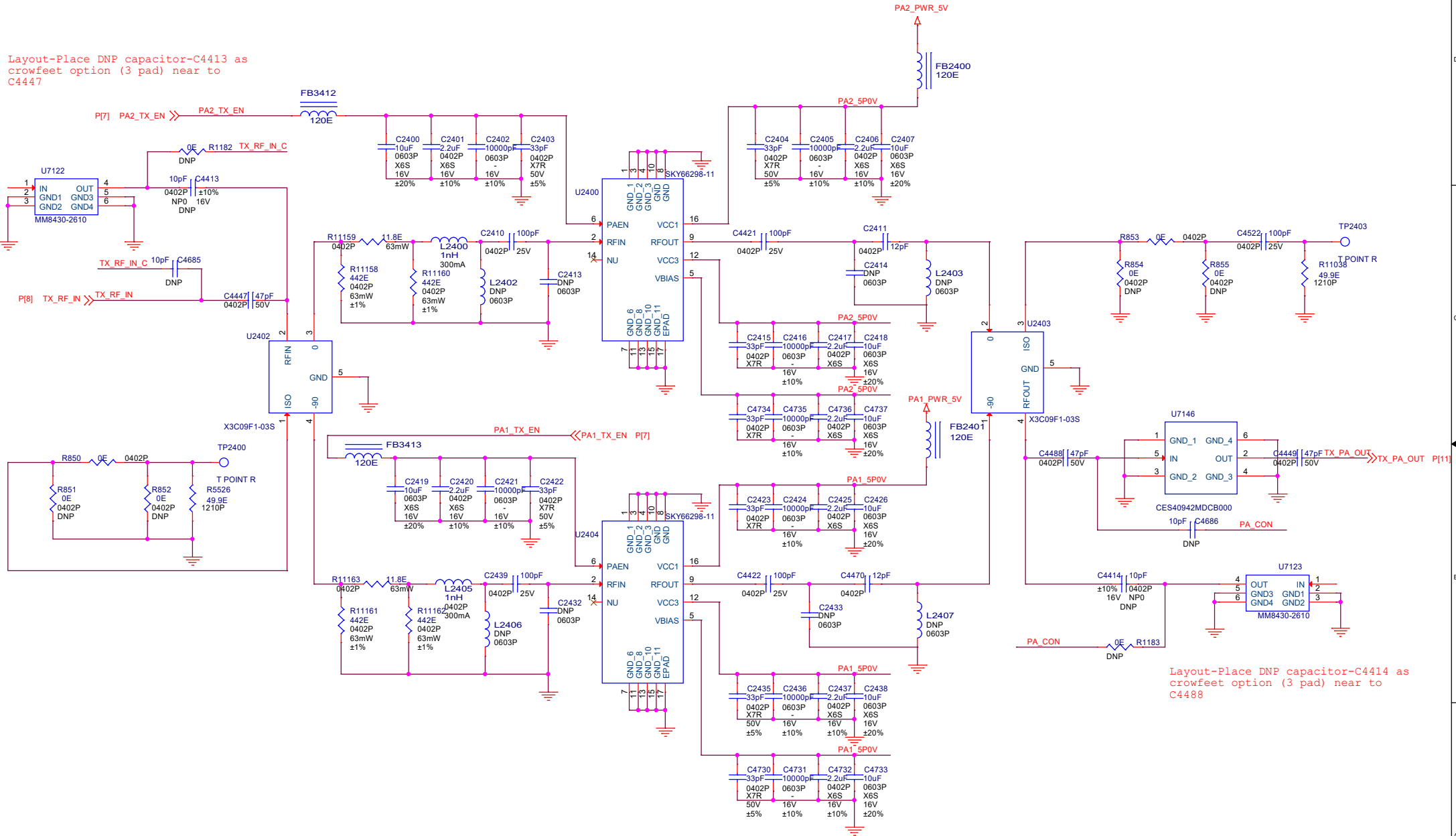
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GAIN_ATTENUATOR



POWER AMPLIFIER

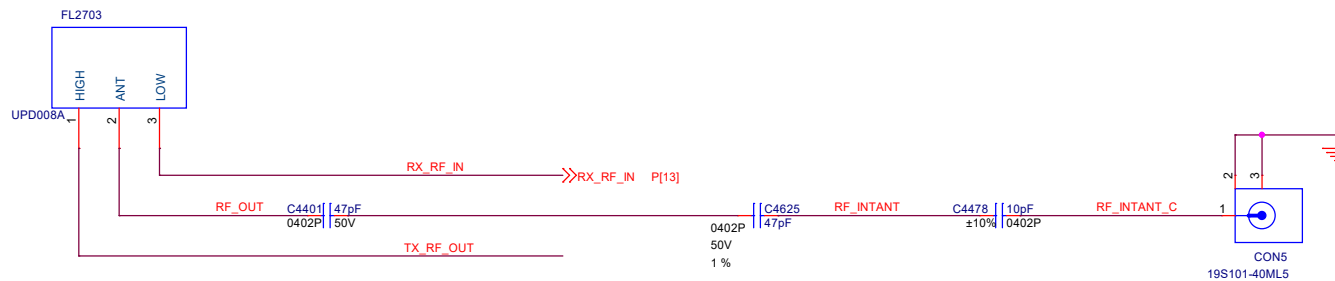
Layout-Place DNP capacitor-C4413 as crowfeet option (3 pad) near to C4447



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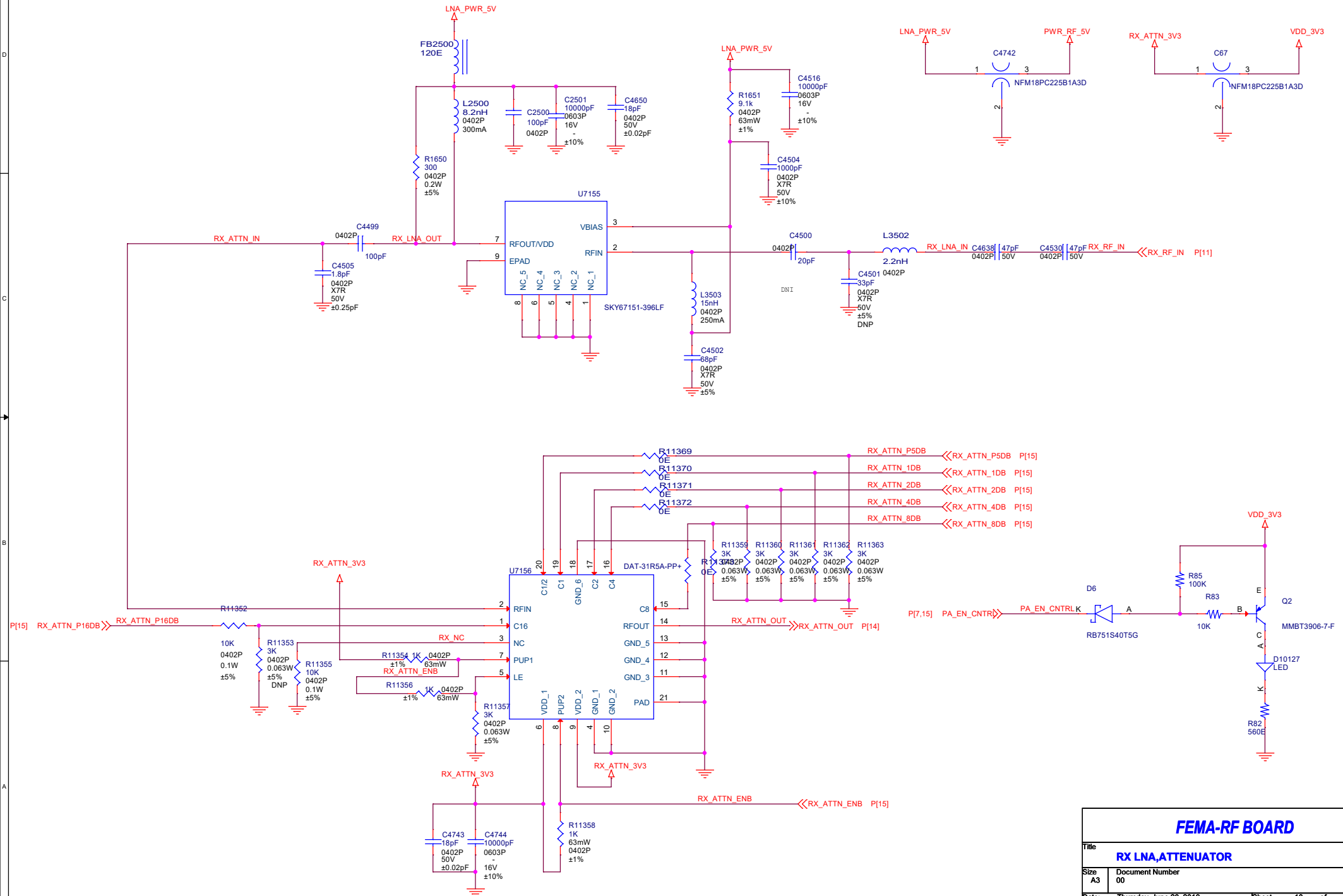
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ANT_DUPLEXER



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POWER DETECTOR,DUPLEXER			
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RF_LNA_ATT

**FEMA-RF BOARD**

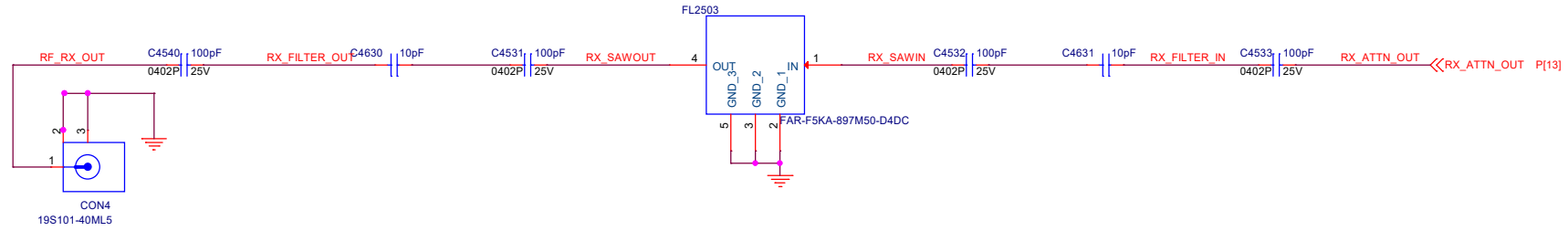
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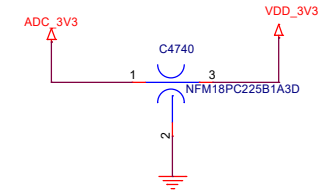
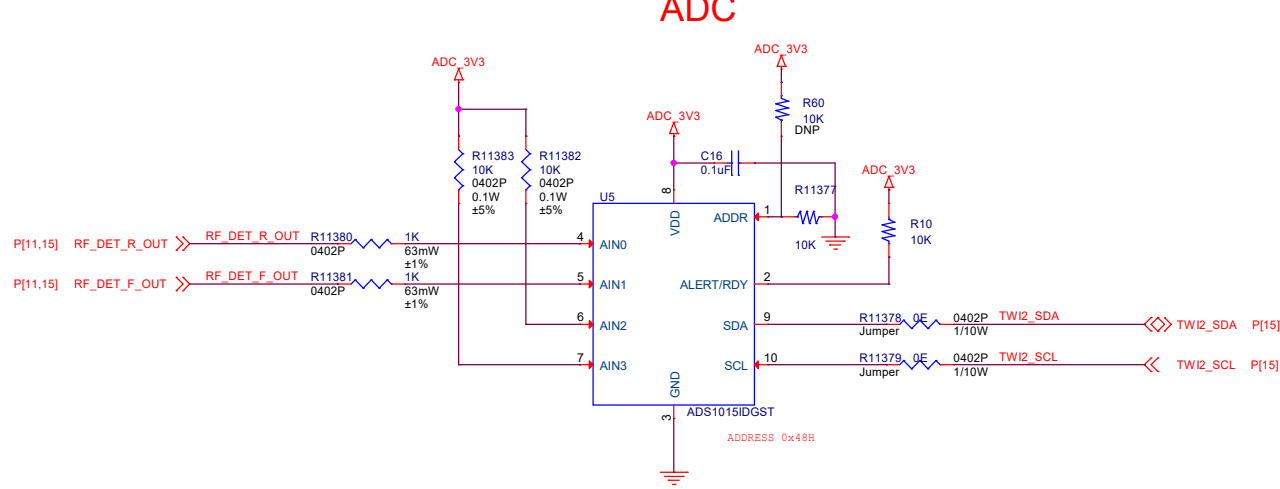
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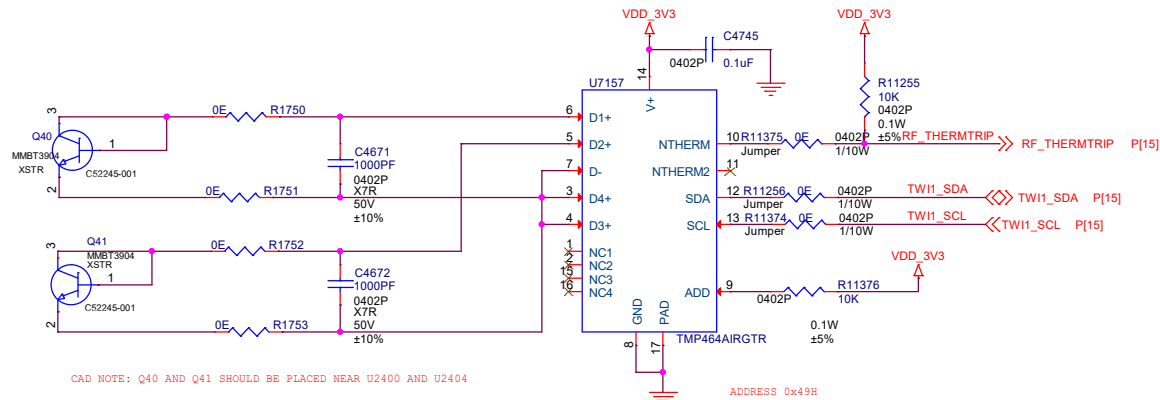
RF_LNA_SAWFILTERS



ADC



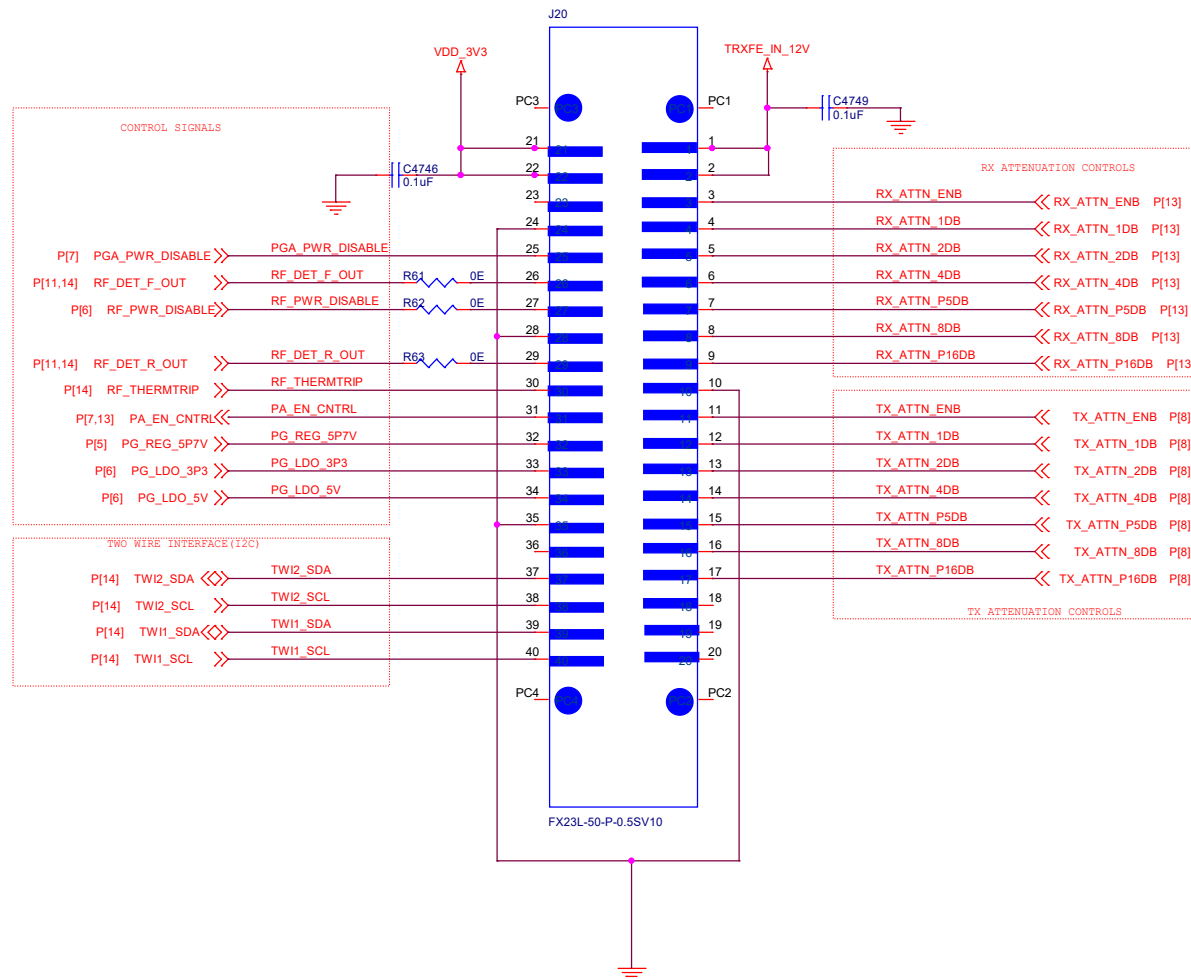
TEMPERATURE SENSOR



CAD NOTE: Q40 AND Q41 SHOULD BE PLACED NEAR U2400 AND U2404

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B2B CONNECTOR			
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