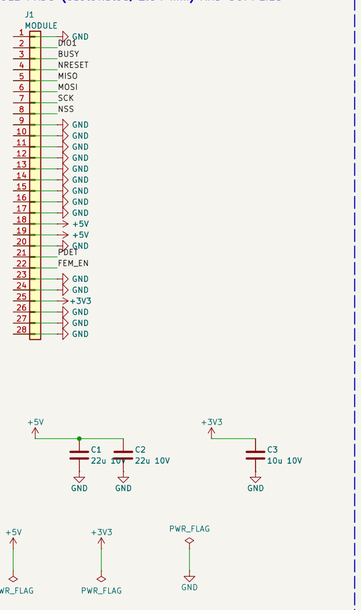
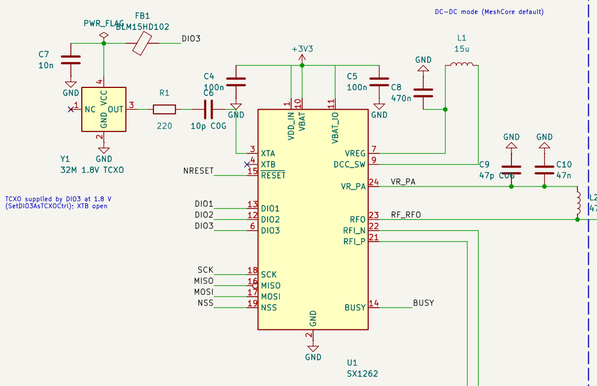
MODULE PADS (castellated, 2.54 mm) AND SUPPLIES

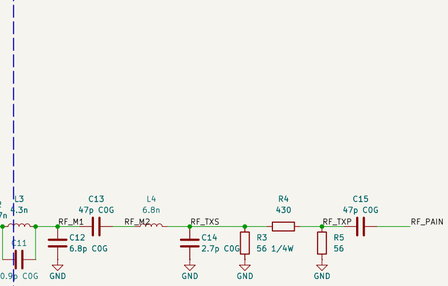


+5V: FEM supply 3.0–5.0 V (5 V for +30 dBm).
0.7 A peak in TX. +3V3: SX1262, 120 mA peak

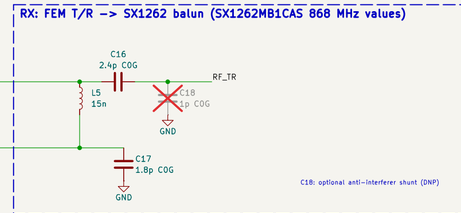
SX1262: TCXO 32 MHz (1.8 V from DIO3), DC–DC 15 uH, VR_PA



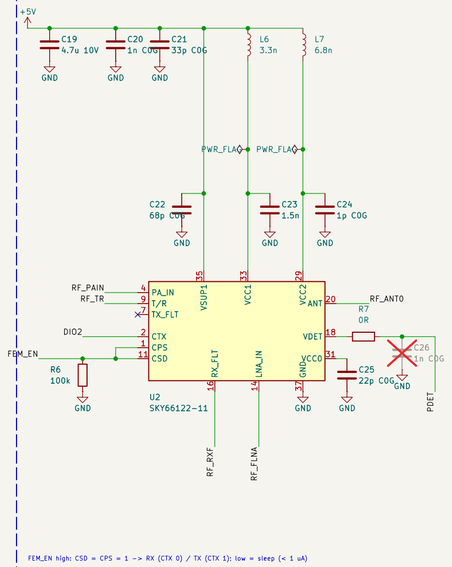
TX: SX1262 HP match (Semtech topology) + 25 dB pad –> FEM PA_IN



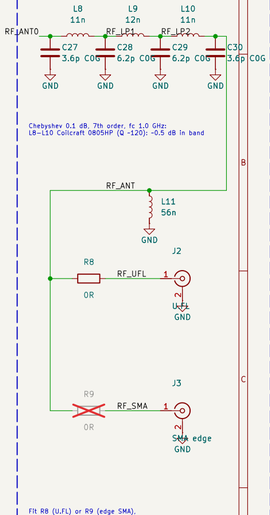
RX: FEM T/R –> SX1262 balun (SX1262MB1CAS 868 MHz values)



FEM SKY66122–11 at 5 V, supply network per evaluation board



TX HARMONIC LOW–PASS + ANTENNA



RX LOOP: RX_FLT –> SKY67150 LNA (0.23 dB NF, +20 dB) –> 3–pole LC band–pass 862–871 MHz –> FEM LNA_IN

4 layers JLC04161H–7628, 50 ohm CPWG on L1 over a solid L2 GND, castellated module
TX: SX1262 +22 dBm –> 25 dB pad –> PA_IN –> +30 dBm; RX: LNA 0.23 dB NF –> LC band–pass
MeshCore / RadioLib: DIO2 = RF switch (FEM CTX), DIO3 = 1.8 V TCXO, DC–DC, FEM_EN = CSD + CP

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Title: LoRa 868 MHz 1 W module: SX1262 + SKY66122–11 FEM + SKY6715

Size: A2	Date: 2026–11–02	**Rev: 3**
KiCad E.D.A. 10.0.4		Id: 1/1