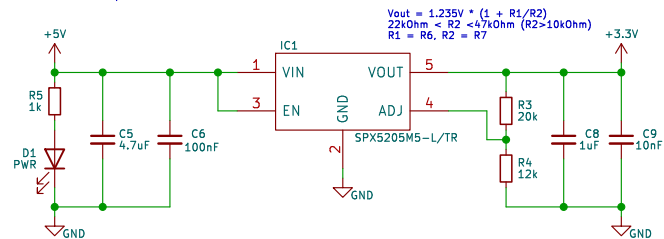


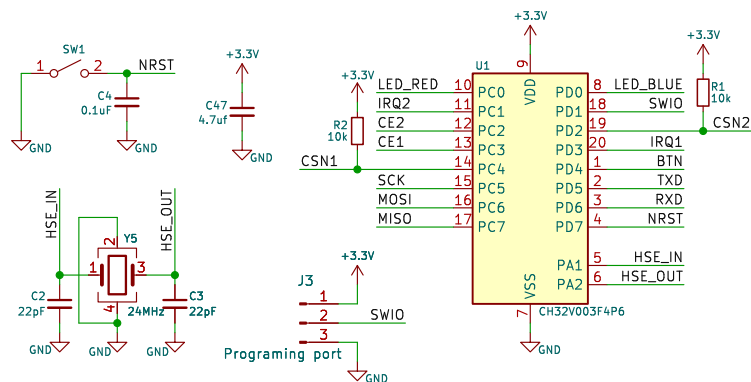
– SPX5205M5–L/TR

– SPX5205M5–L/TR



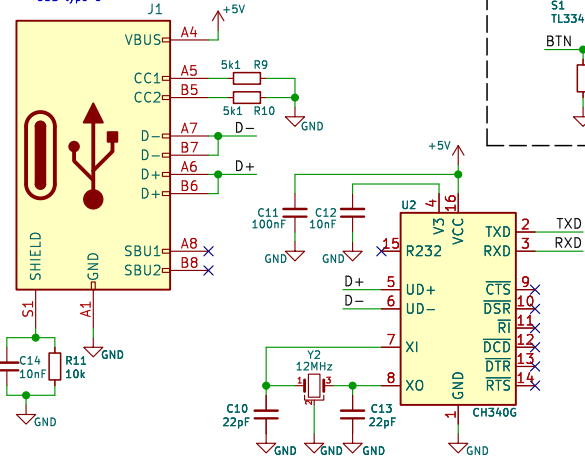
– WCH CH32V003F4P6

– WCH CH32V003F4P6



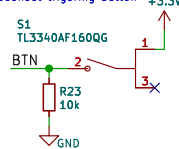
- USB type C

- USB type C



- Reconnect triggering button

- Reconnect triggering button

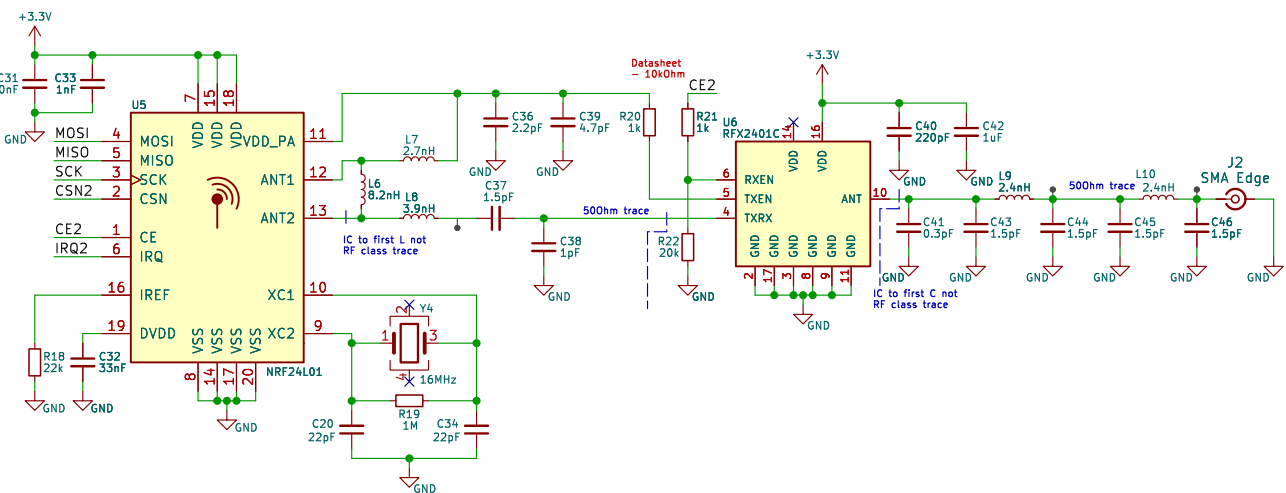
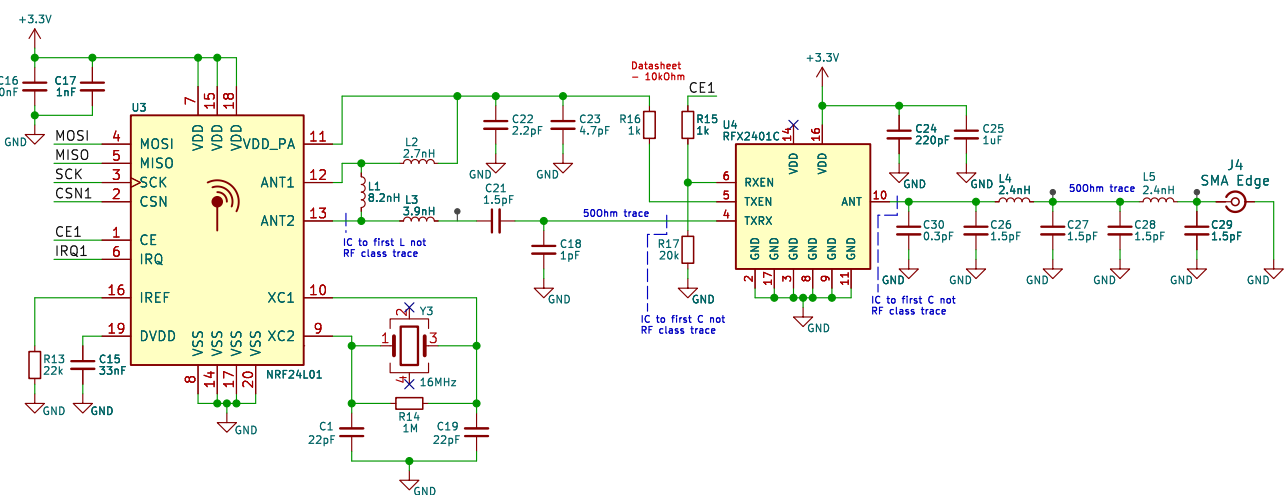


- Dual 2.4GHz radios

- Dual 2.4GHz radios
- Nordic nRF24L01
- Skyworks RFX2401C 2.4GHz(LNA & PA)
- ALL NC pins/pads connect to GND!

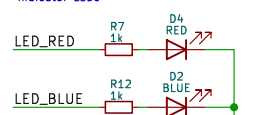
- Via stitching

FR4 (epsilon\_relative): ~4.2 - 4.8

$$f = 2.4\text{GHz} = 2.4 \cdot 10^9 \text{ Hz}$$
$$v = c / \text{sqrt}(\text{epsilon\_relative}) = (3 \cdot 10^8) / (\text{sqrt}(4.42)) = 1.42 \cdot 10^8 \text{ m/s}$$
$$\lambda / 10 = 0.059 / 10 = 0.0059 = \sim 5.9 \text{ mm}$$
$$(0.0009 / 10) = 0.0009 / 10 = 0.00009 = 9.9 \mu\text{m}$$


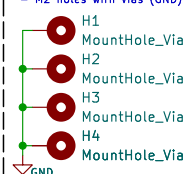
- Indicator LEDs

- Indicator LEDs



- M2 holes with vias (GND)

- M2 holes with vias (GND)



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**Title:**

Size: A4	Date:
KiCad E.D.A. 9.0.1	

Date:

Rev:  
Id: 1/1