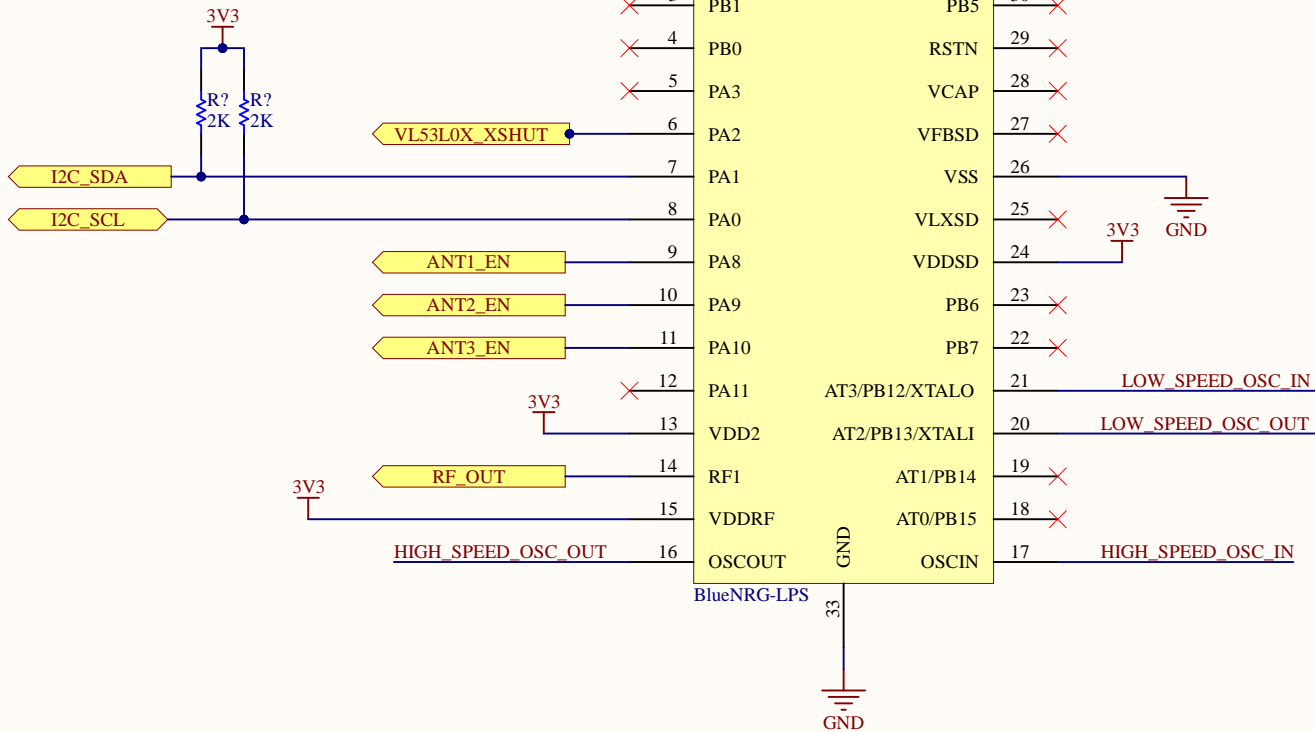
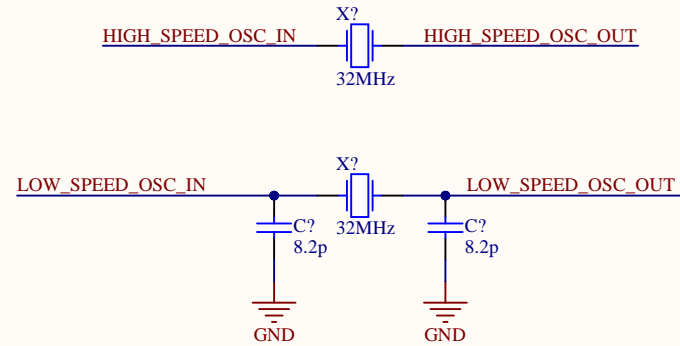


From VL53L0X Datasheet: External pull-up resistors values can be found in I2C-bus specification. Pull-up are typically fitted only once per bus, near the host. Recommended values for pull-up resistors for an AVDD of 2.8V and 400KHz I2C clock



BLE



32MHz Crystals

Title BlueNRG-LPS		
Size A	Number	Revision
Date: 6/30/2023	Sheet of	
File: C:\Users\...\Proc.SchDoc	Drawn By: Justin Vuong	

A

B

C

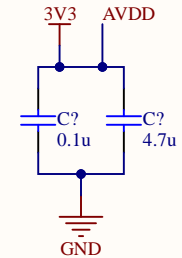
D

A

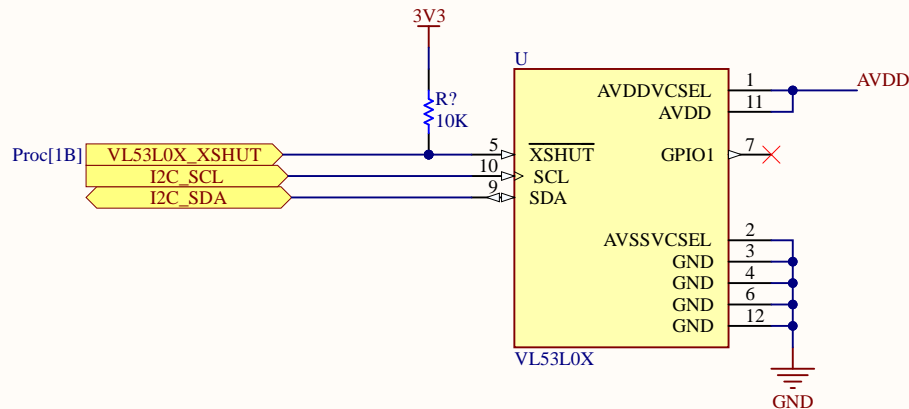
B

C

D



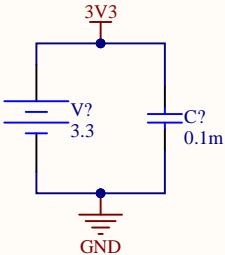
Decoupling Capacitors



Time of Flight Sensor

Title VL53L0X		
Size A	Number	Revision
Date: 6/30/2023	Sheet of	
File: C:\Users\...\Sensor.SchDoc	Drawn By: Justin Vuong	

CR2477 Power

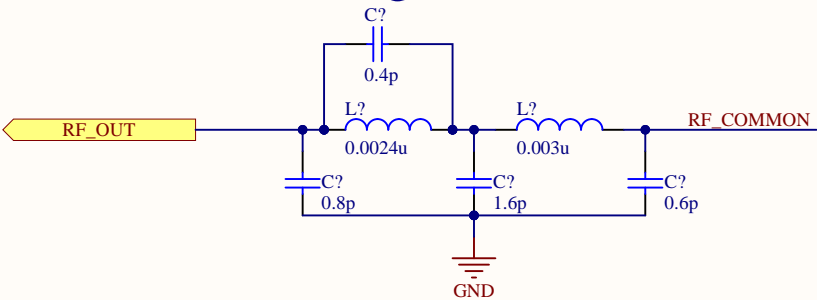


Ground

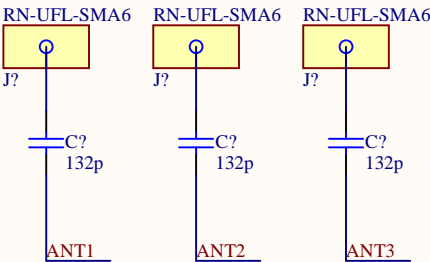


Title Power		
Size A	Number	Revision
Date: 6/30/2023	Sheet of	
File: C:\Users\...\Power.SchDoc	Drawn By: Justin Vuong	

Antenna Matching Circuit

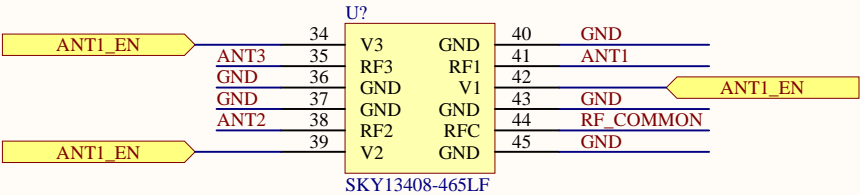


DC Blocking Capacitors
 $X_c = 1 / (2 * \pi * f * c)$ where $f = 2.4\text{GHz}$, $X_c = 50 * 0.01$ hence
 $C = 1 / (2 * \pi * 2.4 * 10^{12} * 0.5)$



Antenna Connectors

Antenna Switch



Title Antenna		
Size A	Number	Revision
Date: 6/30/2023	Sheet of	
File: C:\Users\...\Antenna.SchDoc	Drawn By: Justin Vuong	

Board Stack Report