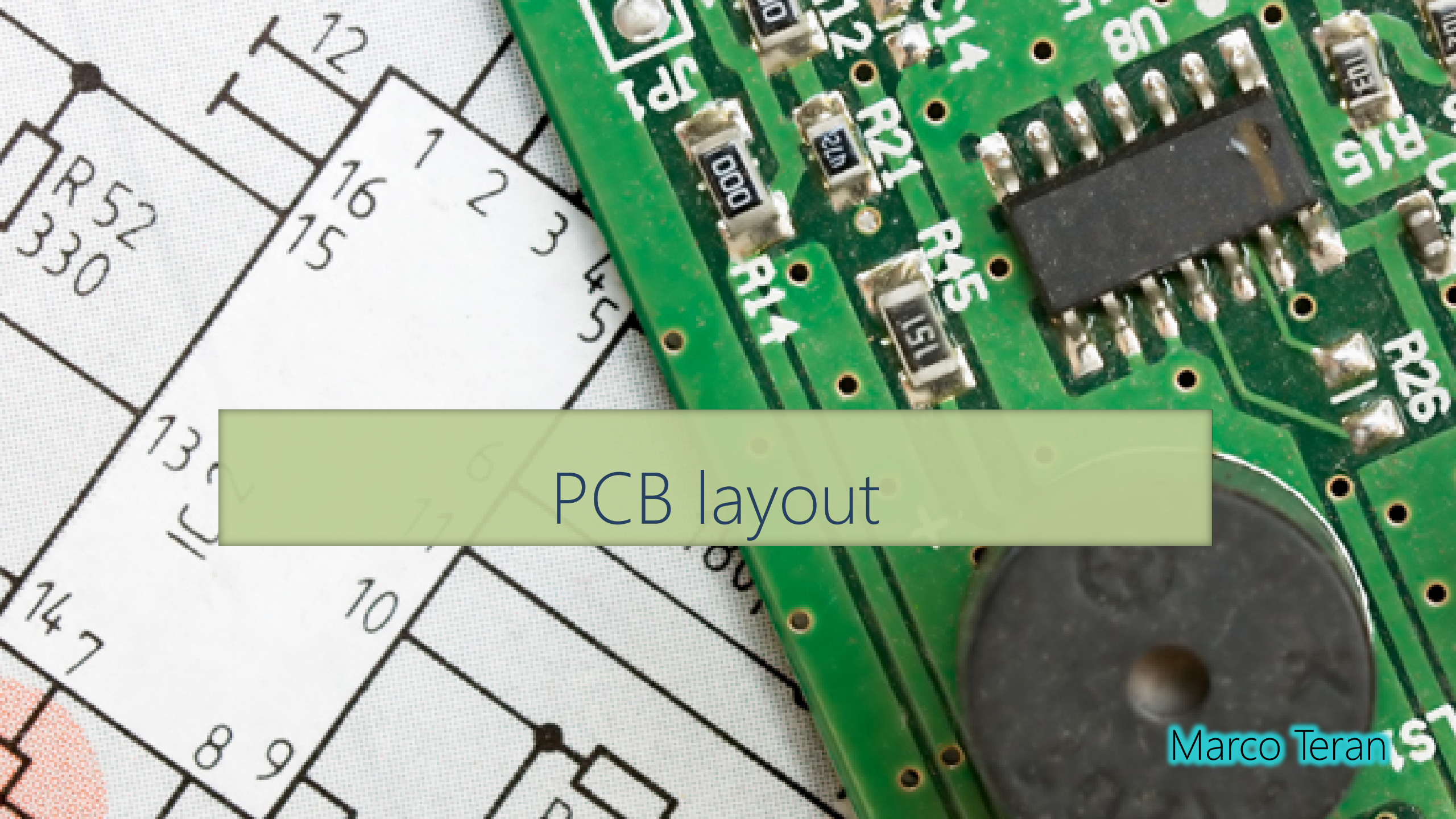
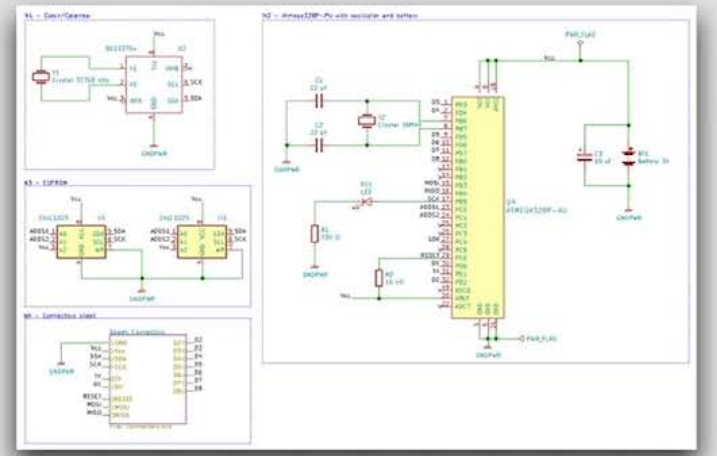
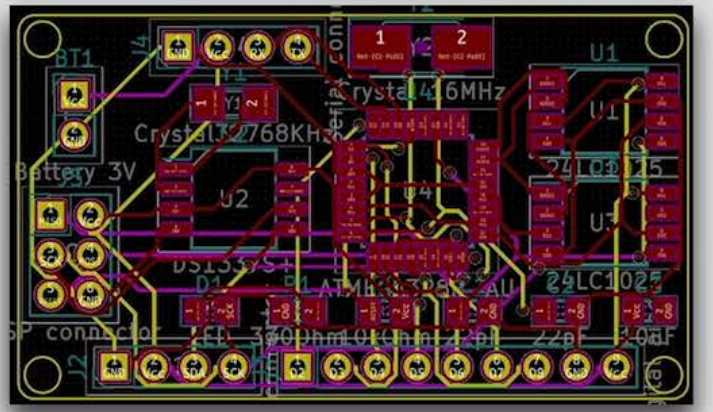


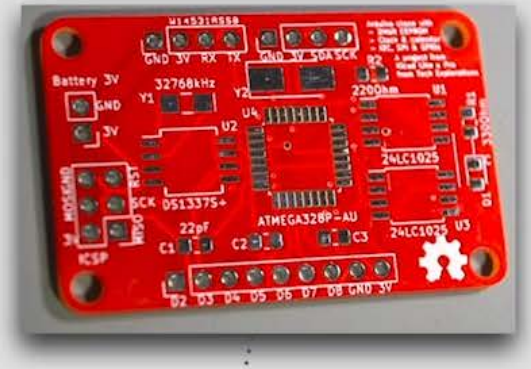
PCB layout

Marco Teran

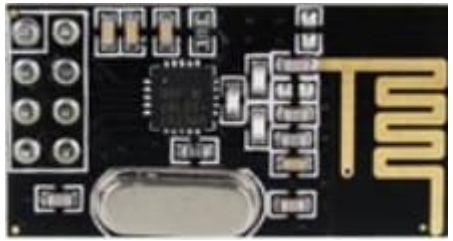
The Kicad design workflow

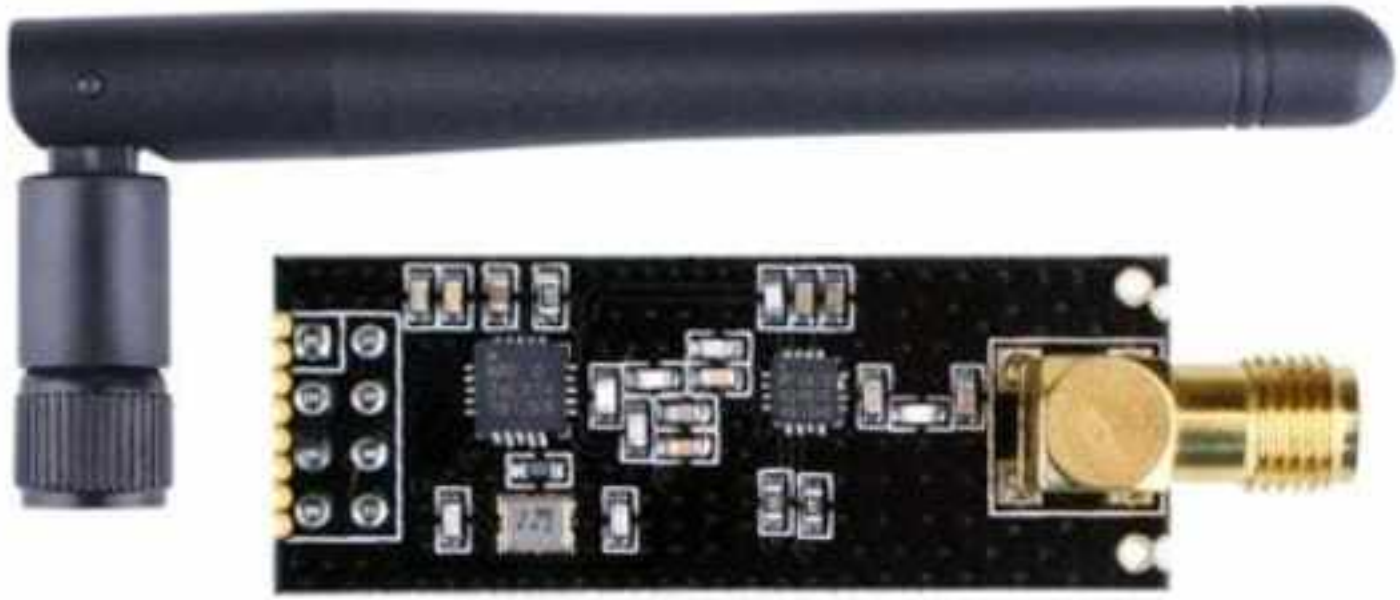






nRF24L01 módulo Vs nRF24L01 módulo PA/LNA

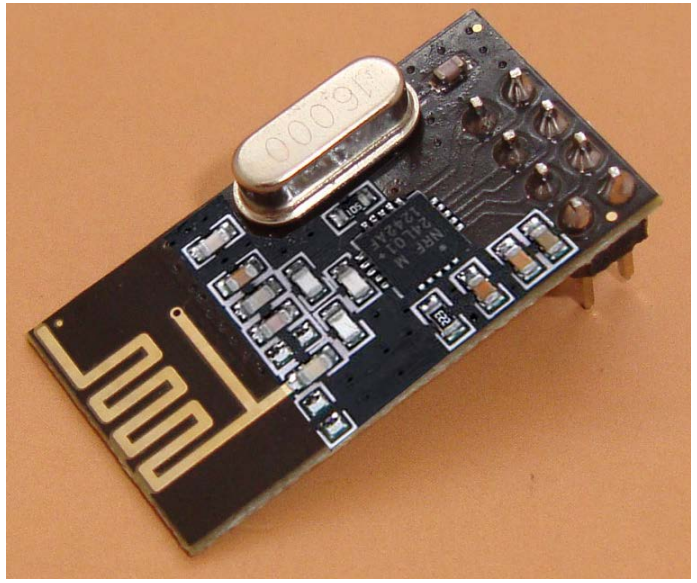


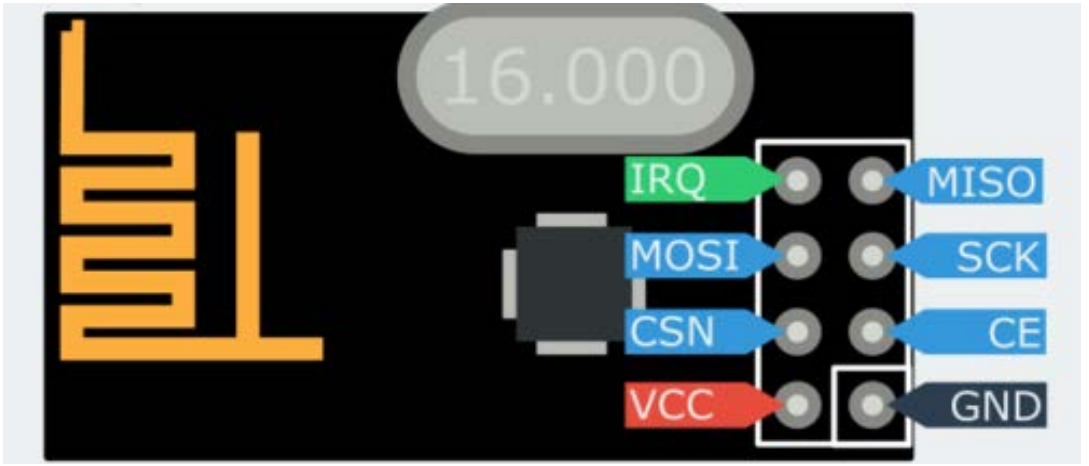


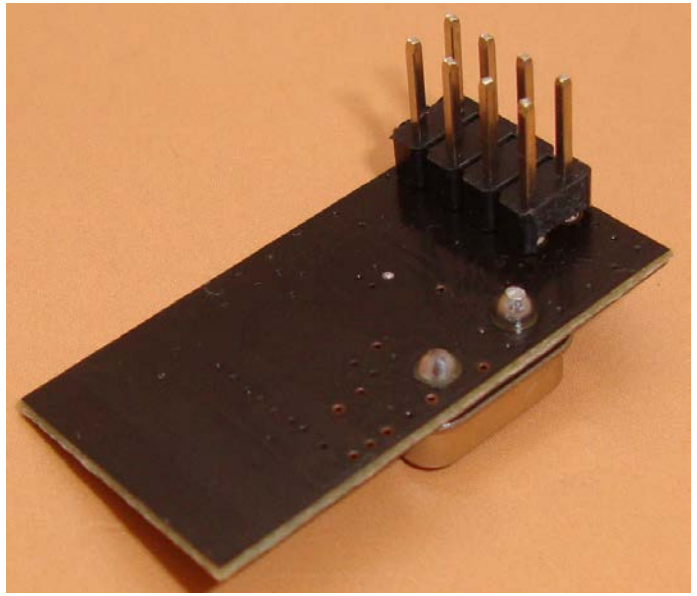
Características

- Rango de frecuencia 2.4 GHz Banda ISM
- Tasa máxima de datos aéreos 2 Mb/s
- Formato de modulación GFSK
- Max. Potencia de salida 0 dBm
- Tensión de alimentación de funcionamiento 1,9 V a 3,6 V
- Max. Corriente de operación 13.5mA
- Min. Corriente (Modo de espera) 26µA
- Entradas lógicas 5V Tolerante
- Alcance de la comunicación 800+ m (línea de visión)
- COM SPI

nRF24L01

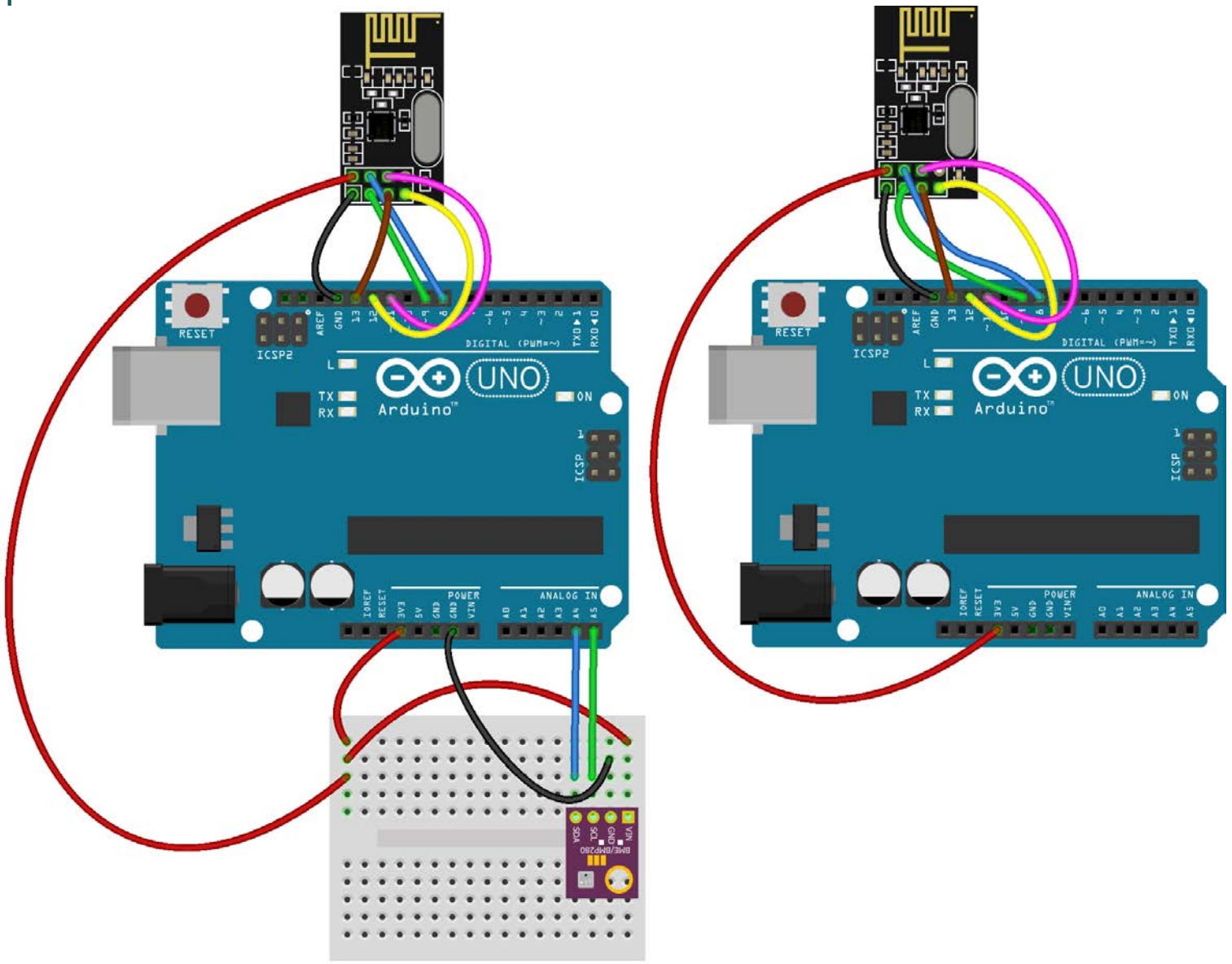



16.000
IRQ
MISO
MOSI
SCK
CSN
CE
VCC
GND

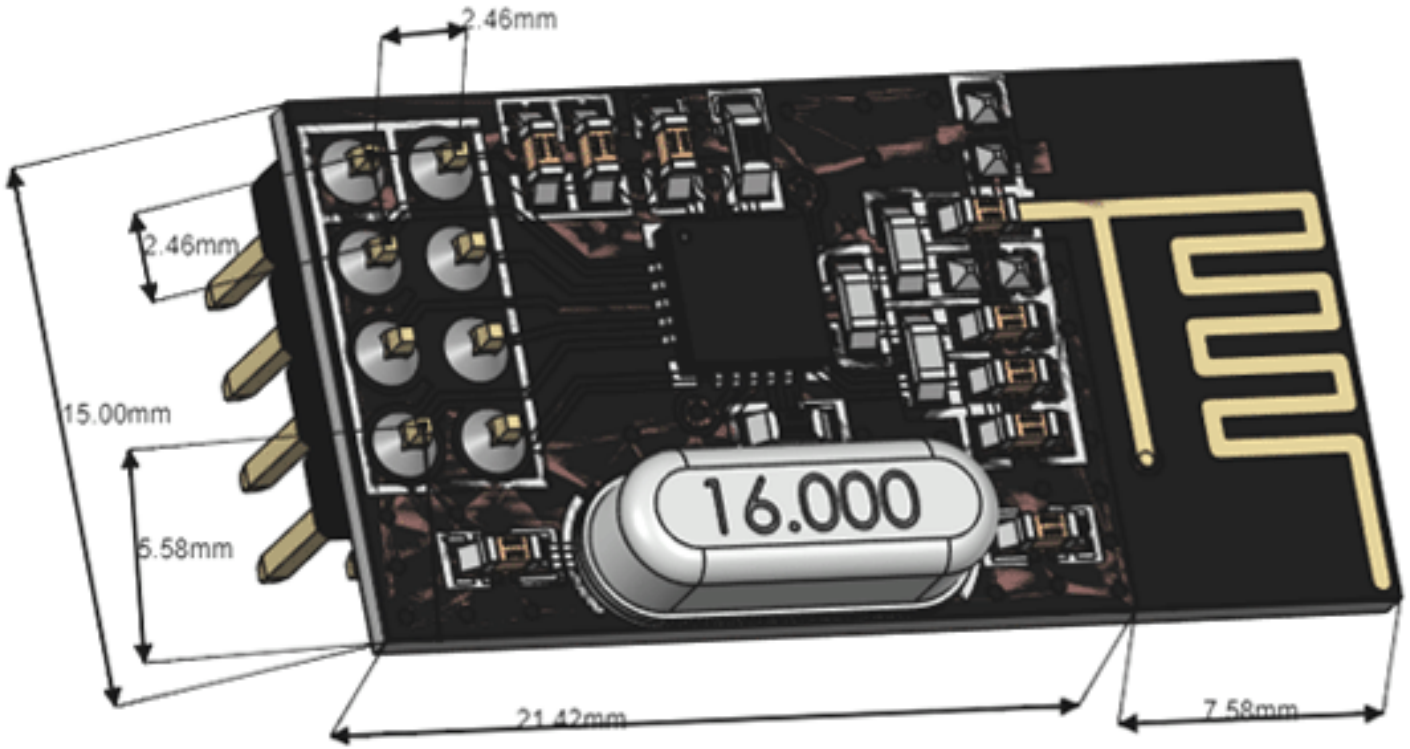


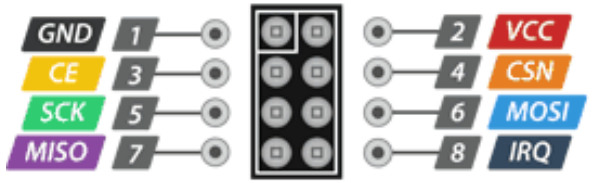

VCC
GND
CSN
CE
MOSI
SCK
IRQ
MISO

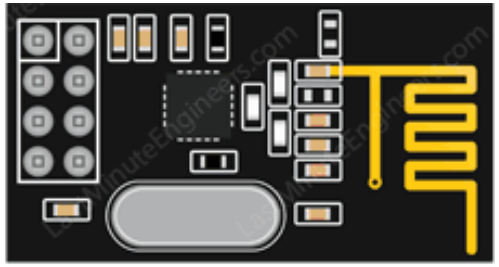
nRF24L01

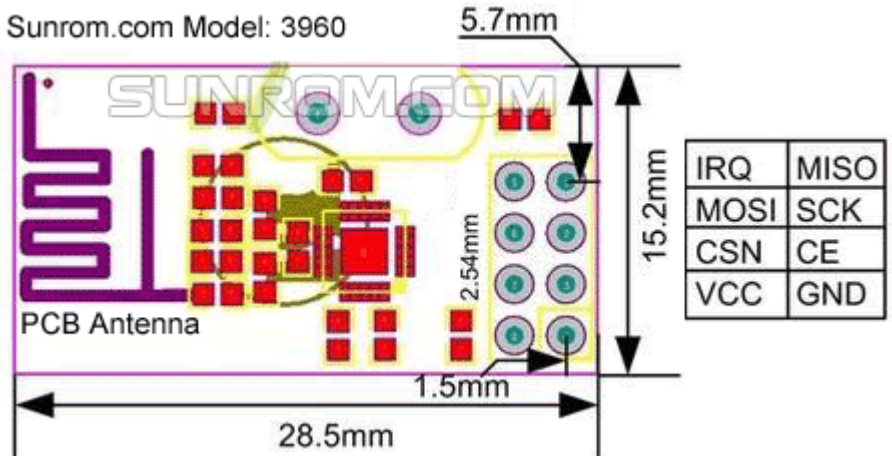

RESET
ICSP2
DIGITAL (PWM=~)
UNO
Arduino
TX
RX
ON
ICSP
POWER
ANALOG IN
BME/BMP280
SDA
SCL
GND
VIN
fritzing

nRF24L01

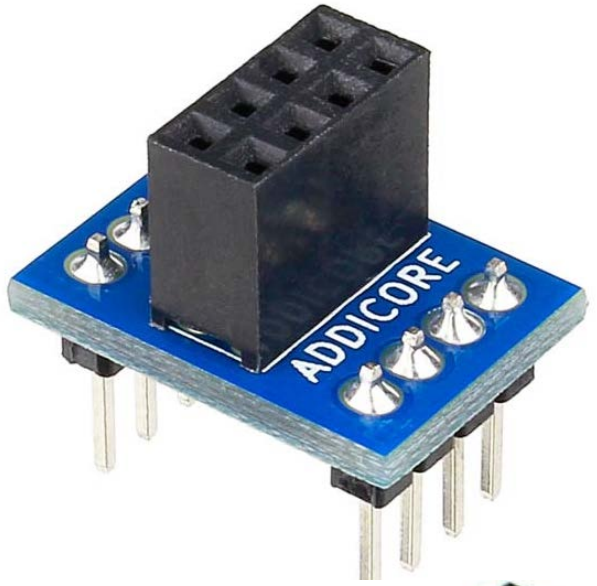

2.46mm
2.46mm
15.00mm
6.58mm
16.000
21.42mm
7.58mm

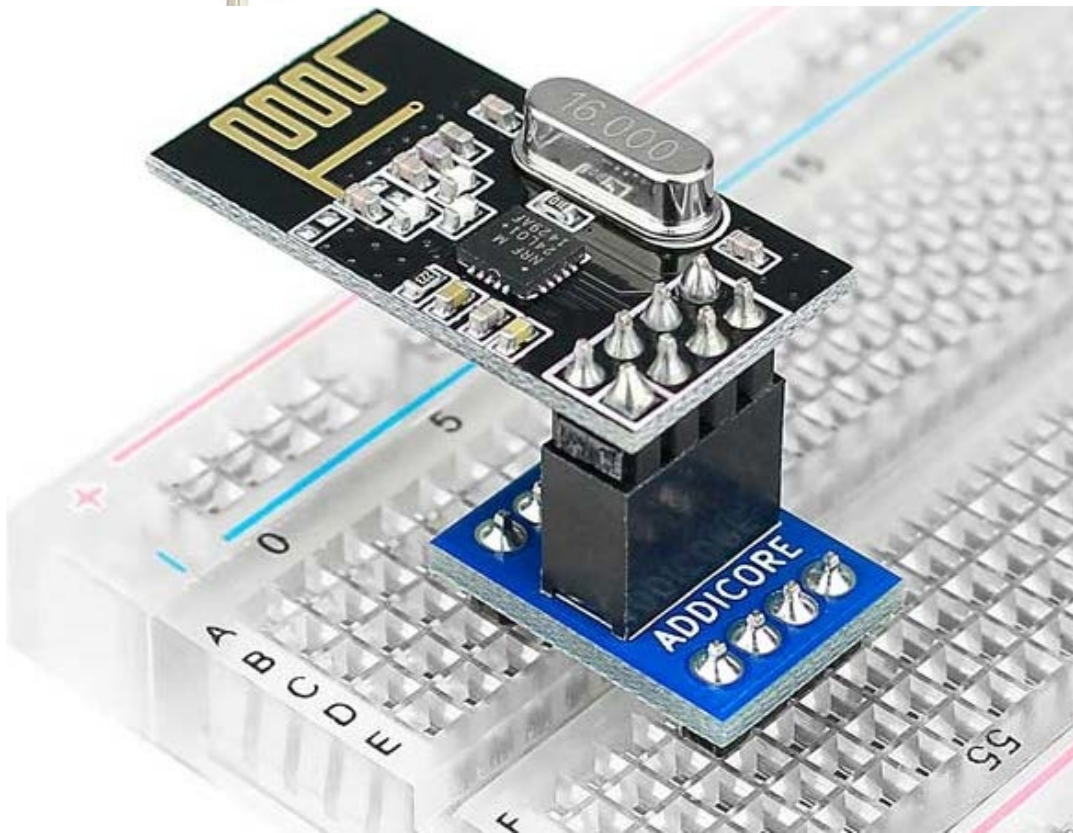

GND 1
CE 3
SCK 5
MISO 7
2 VCC
4 CSN
6 MOSI
8 IRQ




Sunrom.com Model: 3960
5.7mm
SUNROM.COM
15.2mm
2.54mm
PCB Antenna
1.5mm
28.5mm
IRQ MISO
MOSI SCK
CSN CE
VCC GND

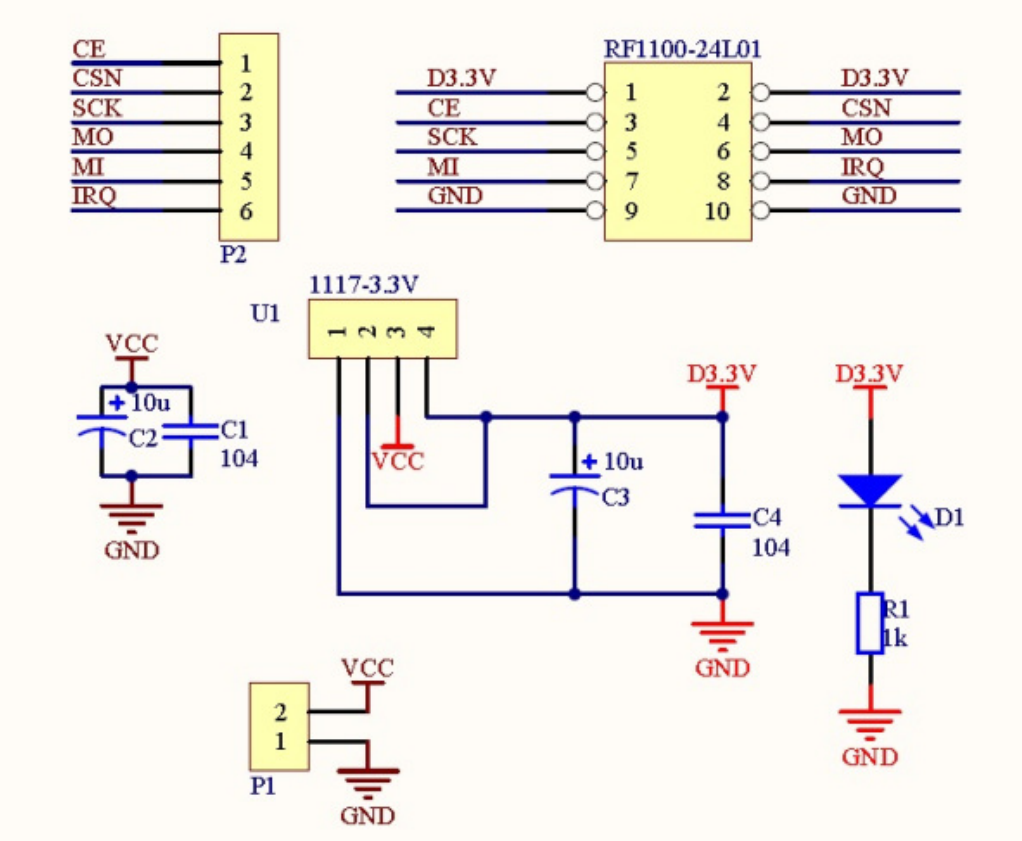
nRF24L01 brekaout





2x4 Female Header 2.54mm (0.1") Spacing
1x8 Straight Male Header Pins 2.54mm (0.1") Spacing

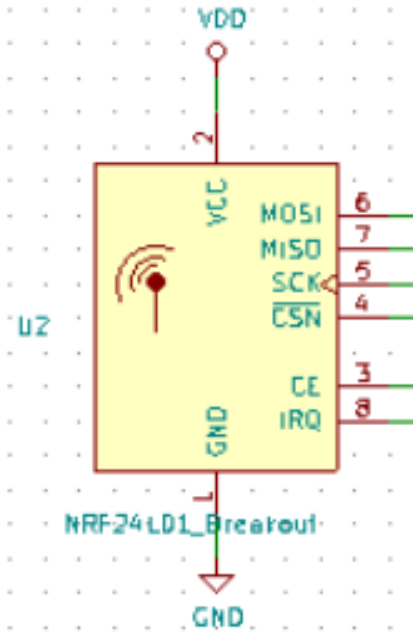
nRF24L01 brekaout

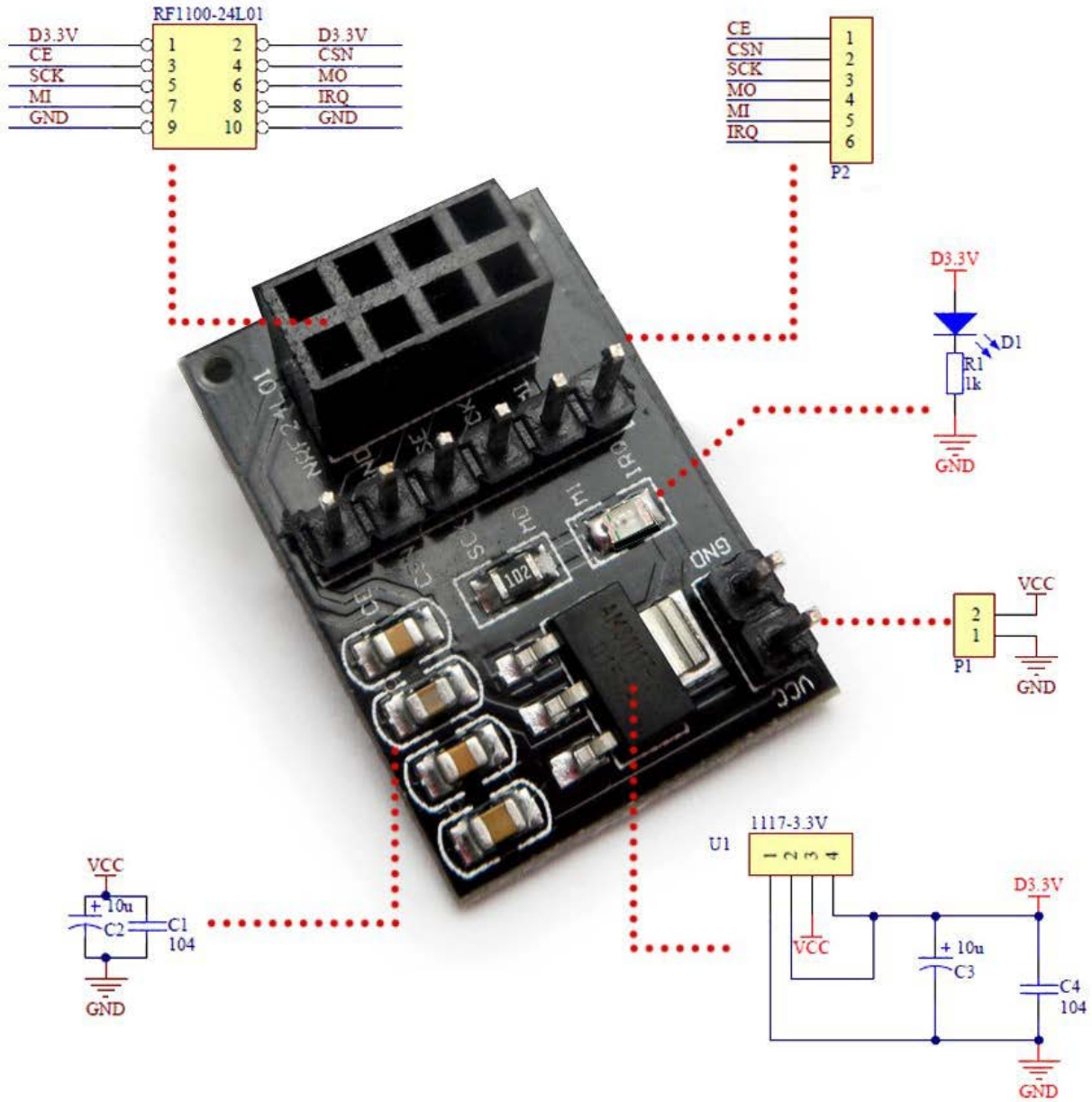


2x4 Female Header 2.54mm (0.1") Spacing
1x8 Straight Male Header Pins 2.54mm (0.1") Spacing

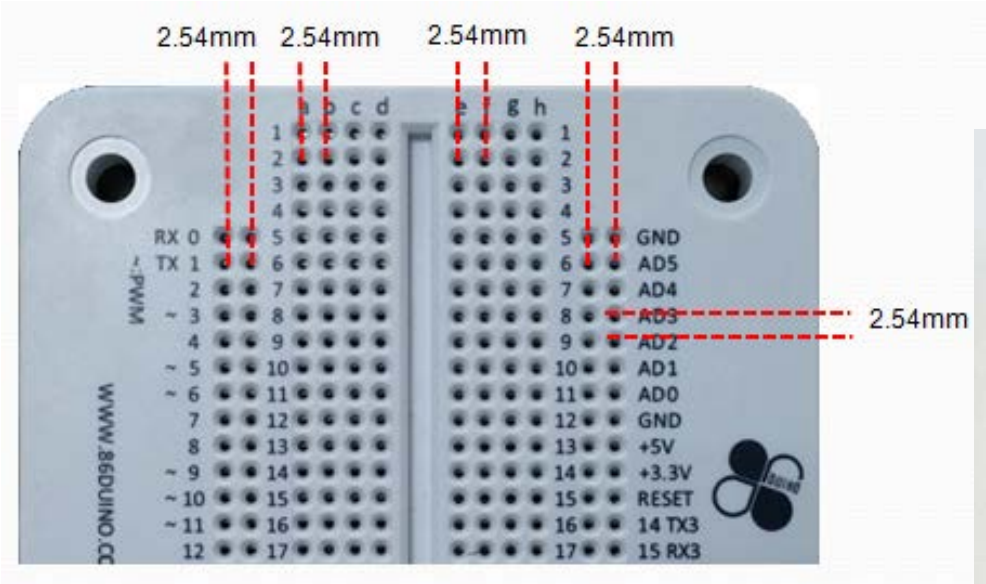
100nF Ceramic Capacitor
10uF Electrolytic Capacitor

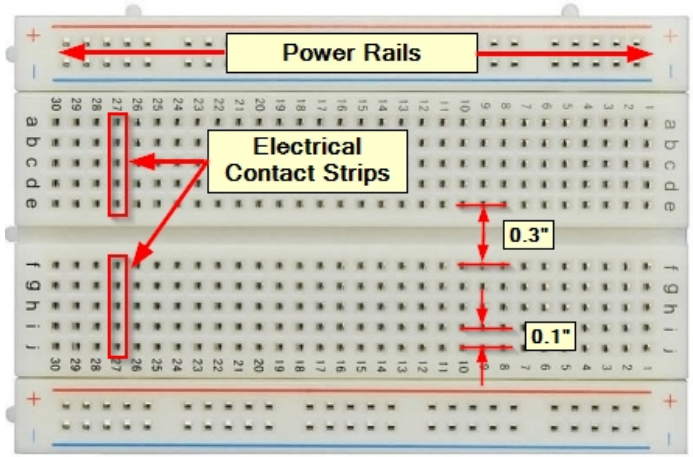
nRF24L01 brekaout

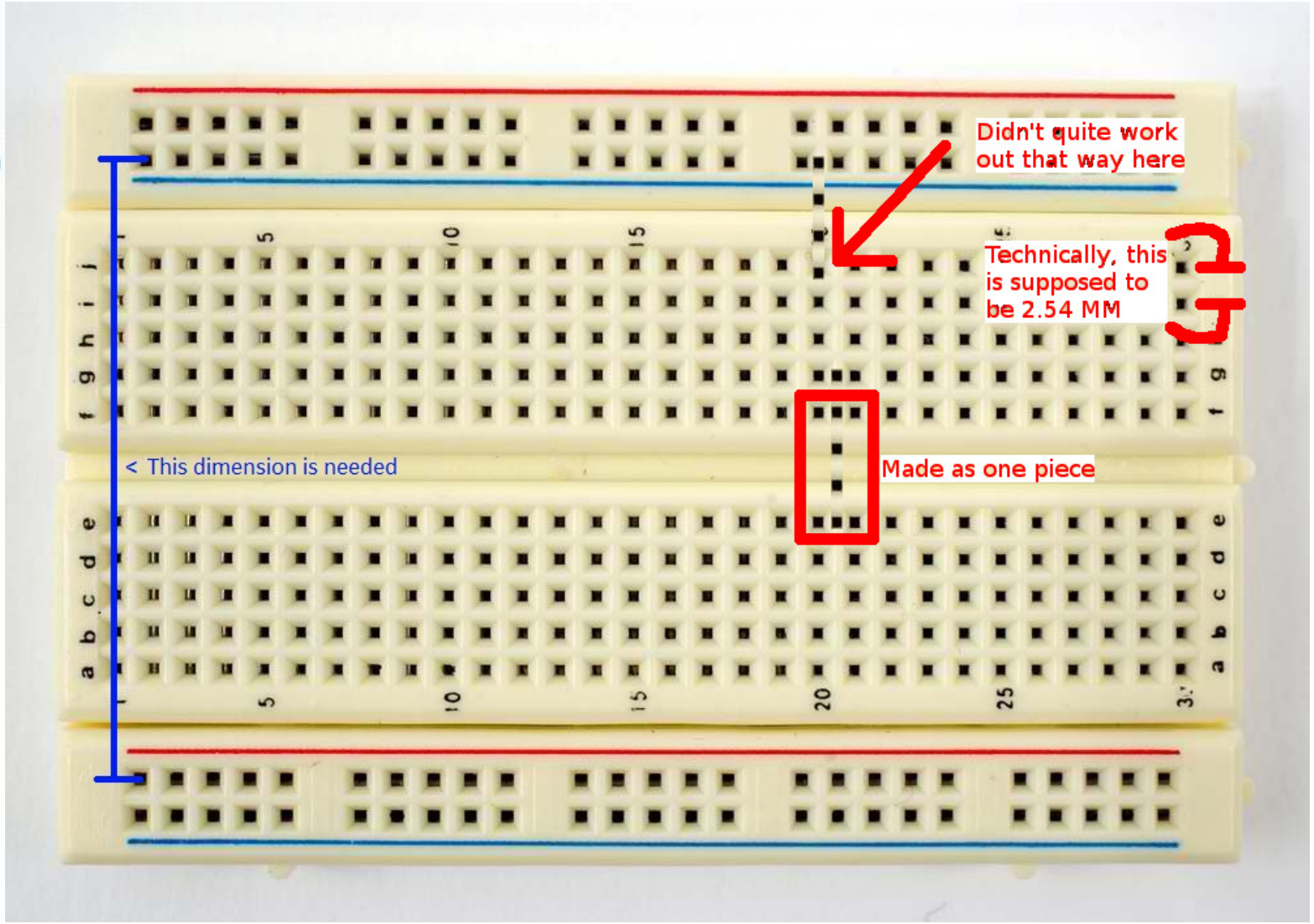




https://github.com/hallard/NRF24-Breakout


2.54mm
2.54mm
2.54mm
2.54mm
2.54mm
RX 0
TX 1
~PWM
GND
AD5
AD4
AD3
AD2
AD1
AD0
GND
+5V
+3.3V
RESET
14 TX3
15 RX3
WWW.86DUINO.CO


Power Rails
Electrical Contact Strips
0.3"
0.1"


Didn't quite work out that way here
Technically, this is supposed to be 2.54 MM
< This dimension is needed
Made as one piece