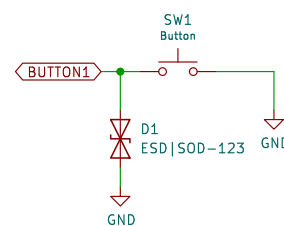
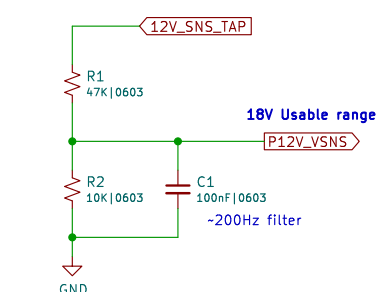
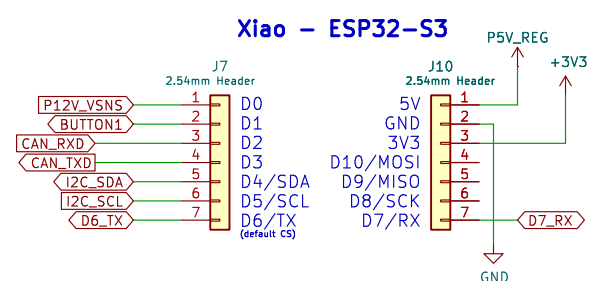


All resistors are 1% or better



By default – this module is not capable of driving data onto CAN

[illegible]

The diagram shows a vertical power rail starting from a +12V source at the top. A red arrow points upwards from the rail, labeled +12V. A red box labeled f1 1A|1206 is connected to the rail. A red arrow points to the rail with the text -0.46 Ohms. A red box labeled 12V_SNS_TAP is connected to the rail. A red diode labeled D2 1A|40V500-123 is connected to the rail. A red box labeled P12V_FUSED_RP is connected to the rail. A red capacitor labeled C9 1uF|0805 is connected to the rail and GND. A red box labeled FB1 1A|0805 is connected to the rail. A red box labeled P12V_FUSED is connected to the rail. A red capacitor labeled C2 1uF|0805 is connected to the rail and GND. A red arrow points downwards from the rail, labeled GND.

Typically only need about -2.5W MAX (500mA/5V)
 – so less than 333mA across VIN range (9V to 18V)
 – use a polyfuse 1208 here... rated for at least 500mA, at most 1A

Fusing, Filters

- TINY VERSION
 - CANBUS/WIFI/BT
oshw
 Sheet: /
 File: OBD - XIAO-QT CAN-BT - TINY V1.kicad_sch
Title: Xiao/QT ESP32 Based OBD CAN to BT

Size: A2	Date: 2024-07-12	Rev: V1
KiCad E.D.A. 8.0.0		Id: 1/1