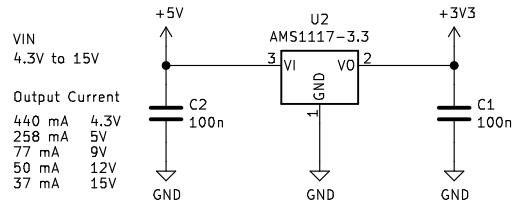


## Supply



Pessimistic Temperature Calculation:

SOT-223-3 Thermal Resistance = 90°C/W  
Maximum Temperature Rise = 40°C

Maximum Power Dissipation:  
40°C / 90°CW = 0.44W

Solving for Iout:  
Iout = 0.44W / (Vout - 3.3V)

## Interface

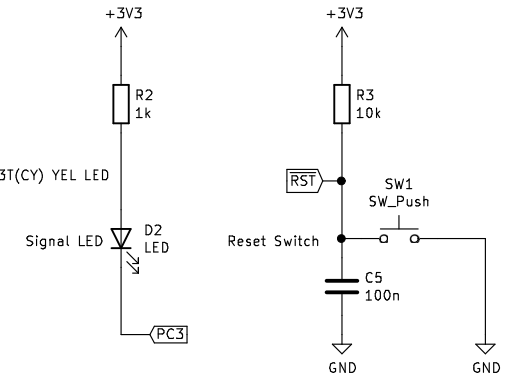
KENTO Elec KT-0603R RED LED  
Vf = 1.9V to 2.2V

If = (3.3V - 1.9V) / 1k = 1.4mA

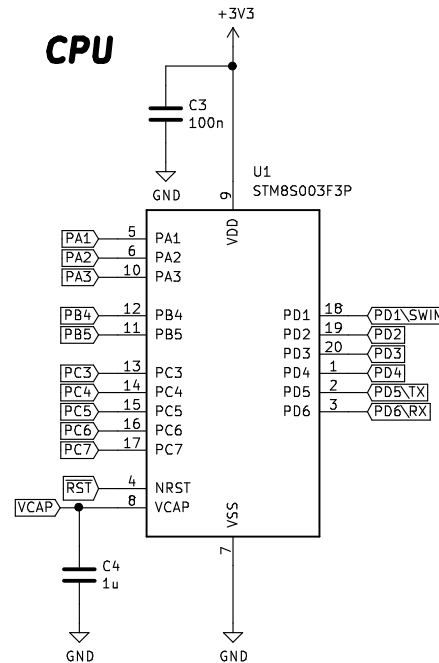
Power Indicator

Everlight Elec 19-213/Y2C-CQ2R2L/3T(CY) YEL LED  
Vf = 1.7V to 2.3V

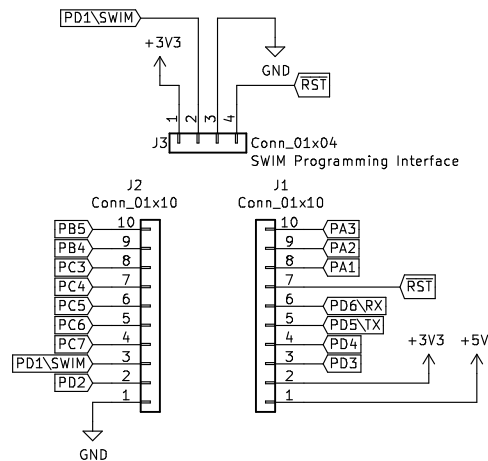
If = (3.3V - 1.7V) / 1k = 1.6mA



## CPU



## Connectors



V2.0 Transferred from EasyEDA to KiCad  
V1.0 First Issue (EasyEDA)

**Aardwolf Digital**

Sheet: /  
File: STM8S003F3.sch

**Title: STM8S003F3 Breakout**

Size: A4  
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Date: 2020-08-20

Rev: V2.0

Id: 1/1