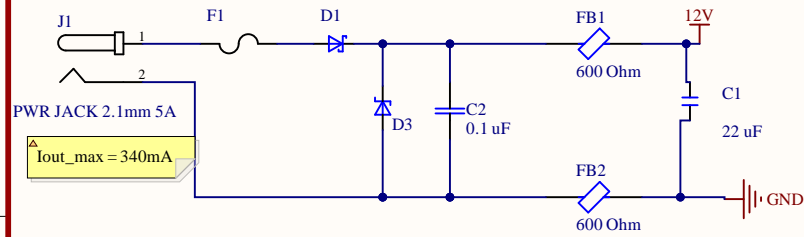
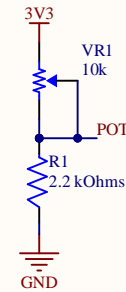


## POWER\_INPUT\_AND\_FILTER



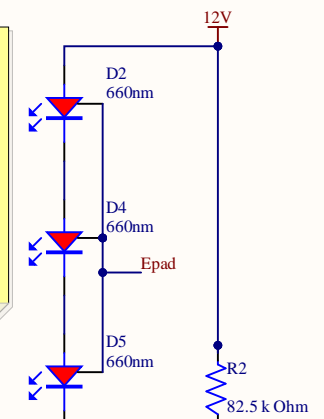
## LEDS CONTROL



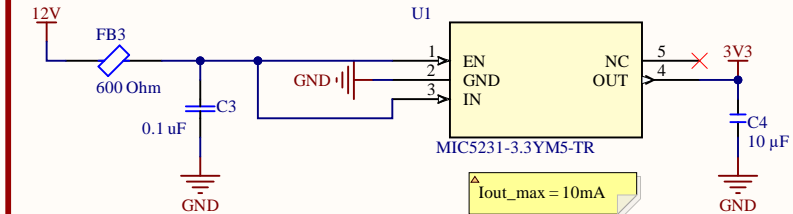
## LED\_DRIVER

$$R_{BIAS} = (V_{CC} - 3.75V) / 0.1mA$$
$$R_{BIAS} = (12V - 3.75V) / 0.1mA = 82.5k\Omega$$

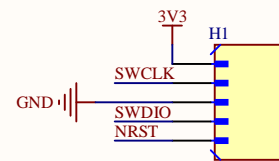
$$R_{EXT} = VR_{SET} / I_{LED}$$
$$R_{EXT} = 0.56V / 350mA = 1.6\Omega$$



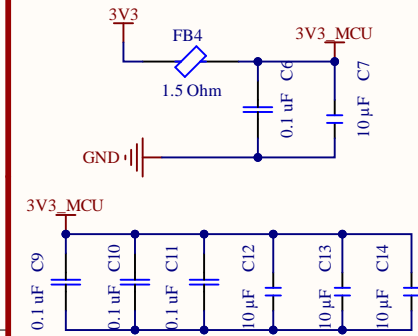
## DC/DC 12V TO 3V3



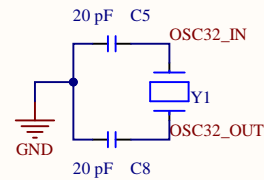
## ST-Link



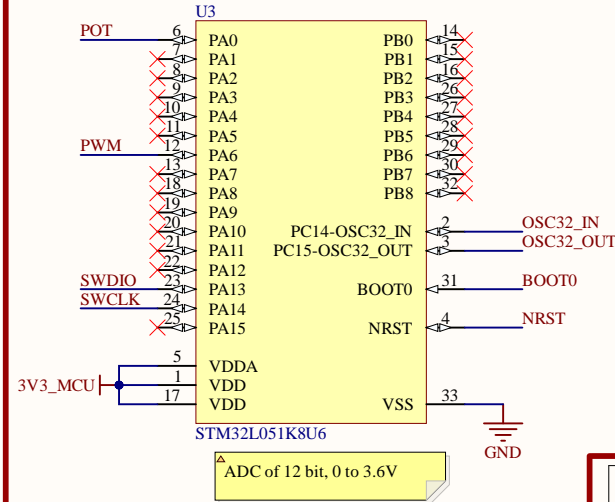
## MCU POWER INPUT



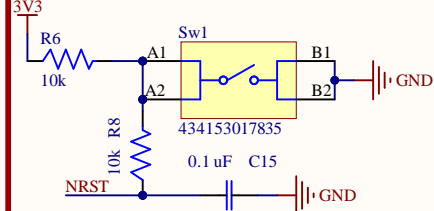
## CRYSTALL OSCILLATOR



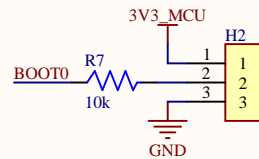
## STM32 MICROCONTROLLER



## RESET BUTTON



## BOOT MODES



Title Main

Size A4

Number

Revision v1

Date: 2/07/2024

Sheet of

File: C:\Users\...\Main.SchDoc

Drawn By: Kamilo Yani Vam Burbano Rinco

