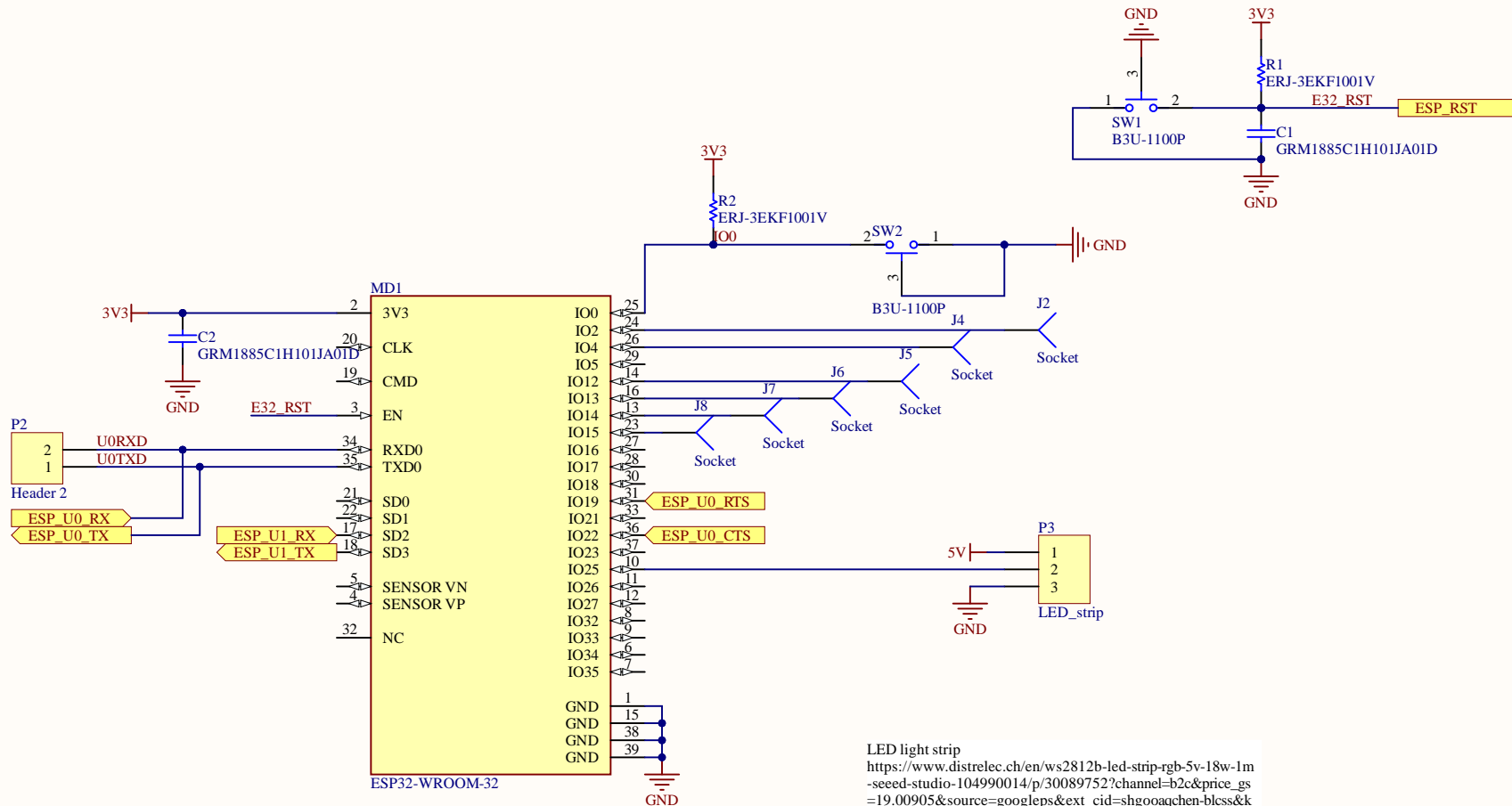


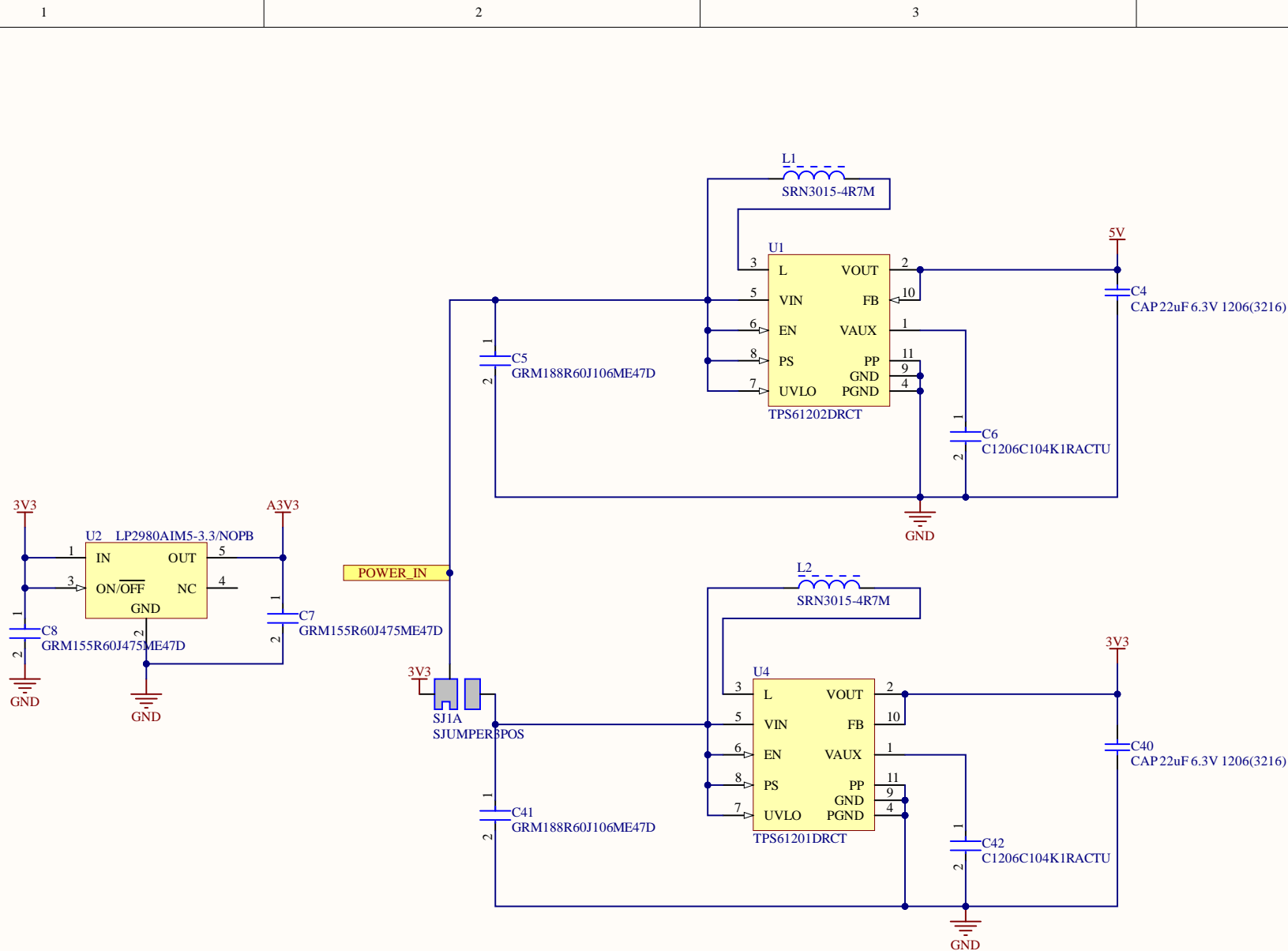
Title		
Size	Number	Revision
A4		
Date:	5/25/2022	Sheet of
File:	G:\My Drive\...\interconnect.SchDoc	Drawn By:



LED light strip
https://www.distrelec.ch/en/ws2812b-led-strip-rgb-5v-18w-1m-seed-studio-104990014/p/30089752?channel=b2c&price_gs=19.00905&source=googleps&ext_cid=shgooaqchen-blcss&kw=%7Bkeyword%7D&ext_cid=shgooaqchen-P-CSS-Shoppin-g-Lighting&pi=30089752&gclid=CjwKCAjww-CGBhALEiwAQzWxOvH7Gs9yD2iBi4Ge1DNC2TtA9CMgRWs6OTP8T3pO5INEQTRO2M92tBoC6-AQAvD_BwE

Library
<https://github.com/FastLED/FastLED>

Title		
Size	Number	Revision
A4		
Date:	5/25/2022	Sheet of
File:	G:\My Drive\...\ESP32.SchDoc	Drawn By:



Title		
Size	Number	Revision
A4		
Date:	5/25/2022	Sheet of
File:	G:\My Drive\...\power.SchDoc	Drawn By:

NEEDS OWN
ANALOG SUPPLY
FOR NOISE
REASONS!!!!

SDA
TOUCH_RESET
TOUCH_CHANGE
SCL
I2C address: 0x1B

3V3
C26
0.1uF
GND

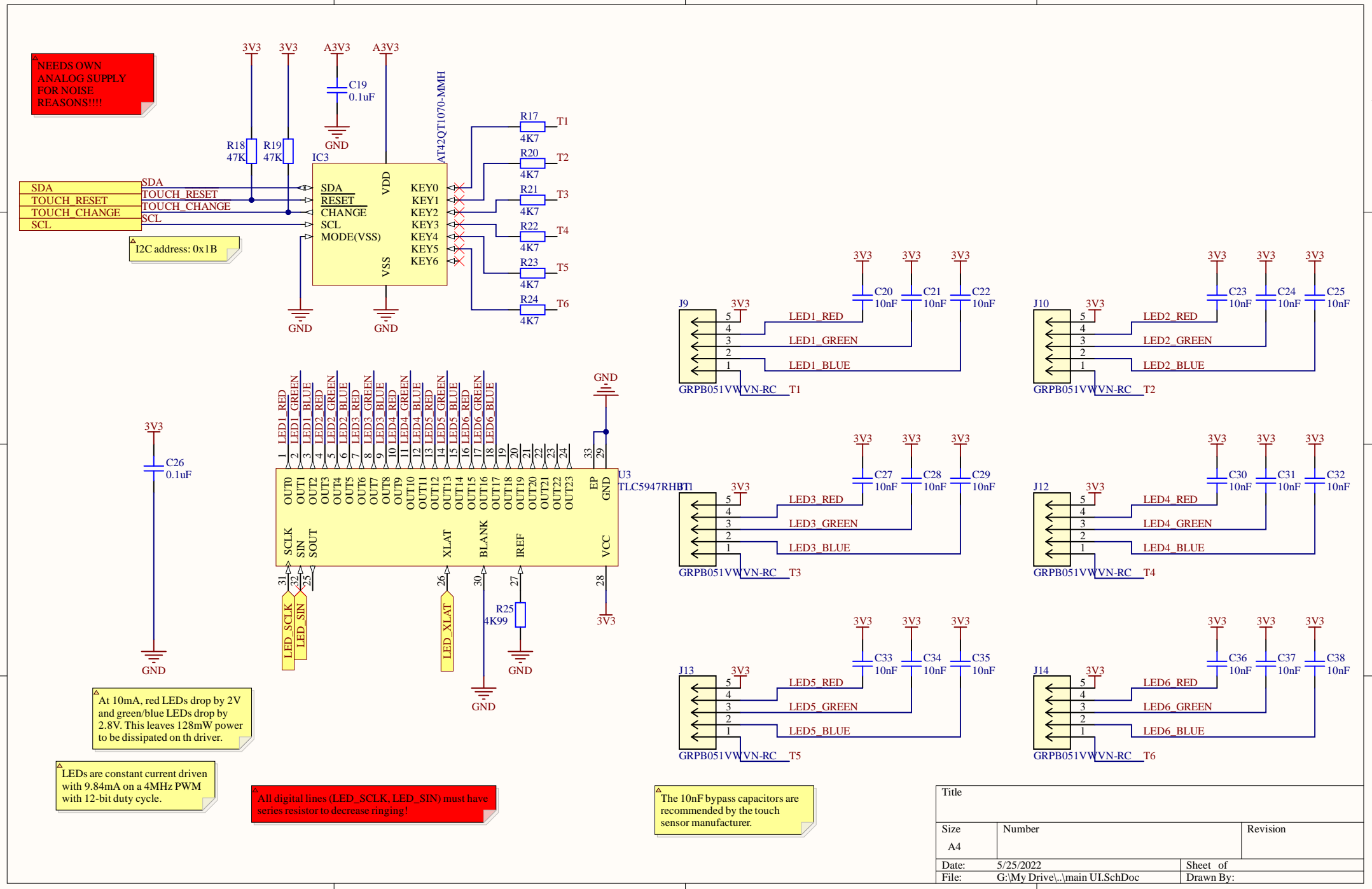
At 10mA, red LEDs drop by 2V
and green/blue LEDs drop by
2.8V. This leaves 128mW power
to be dissipated on th driver.

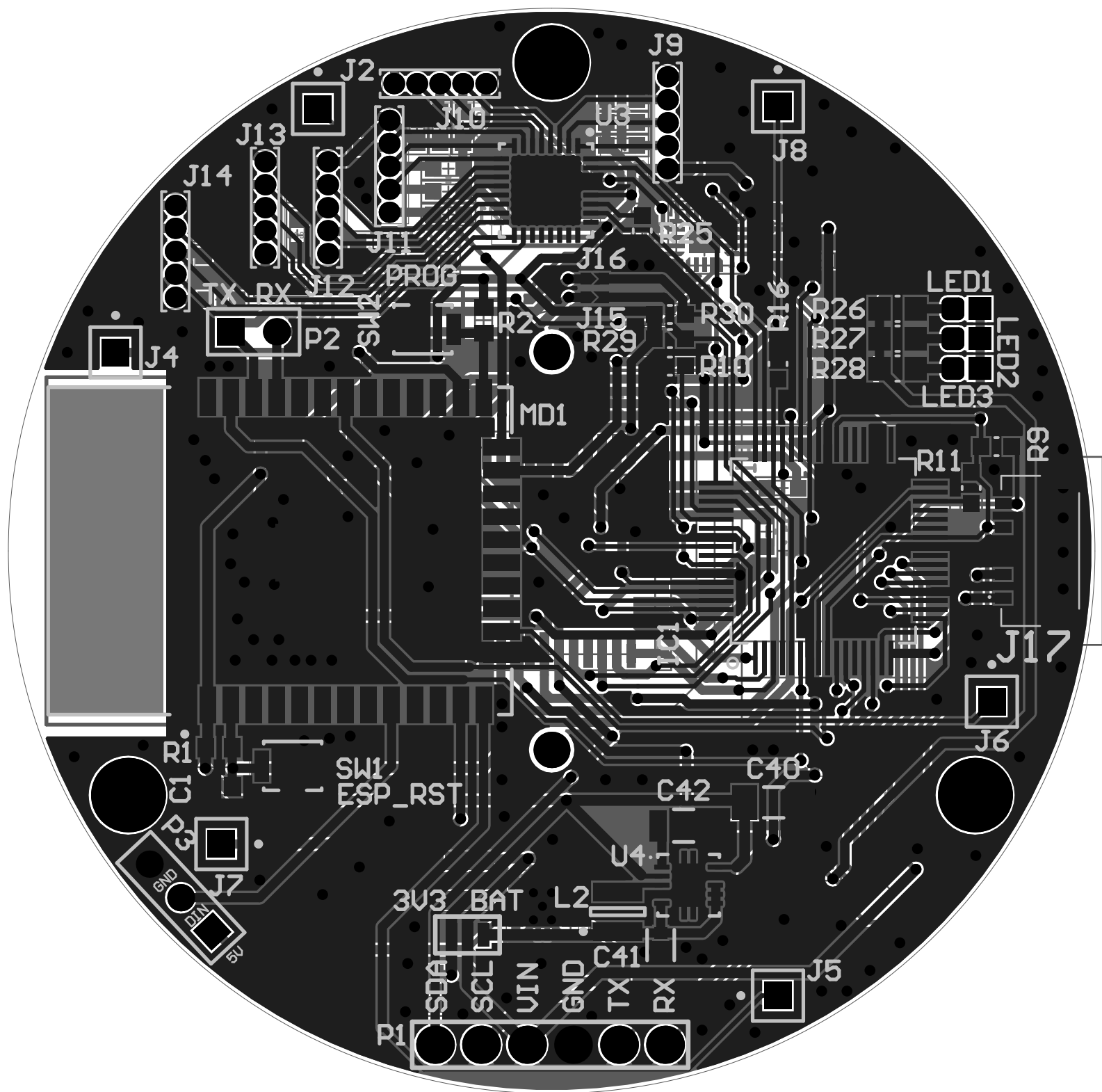
LEDs are constant current driven
with 9.84mA on a 4MHz PWM
with 12-bit duty cycle.

All digital lines (LED_SCLK, LED_SIN) must have
series resistor to decrease ringing!

The 10nF bypass capacitors are
recommended by the touch
sensor manufacturer.

Title		
Size A4	Number	Revision
Date: 5/25/2022	Sheet of	
File: G:\My Drive\...\main UI.SchDoc	Drawn By:	





[illegible]