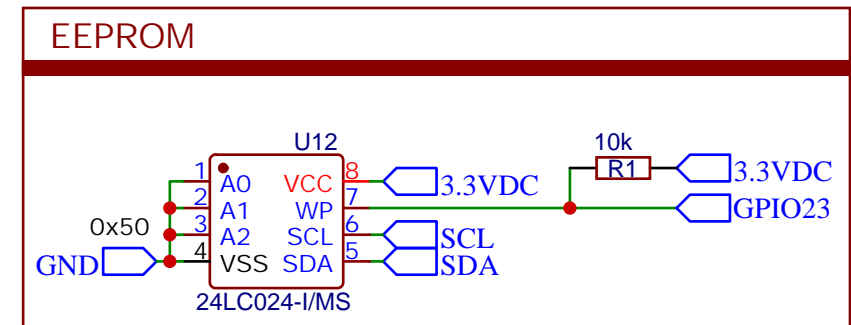
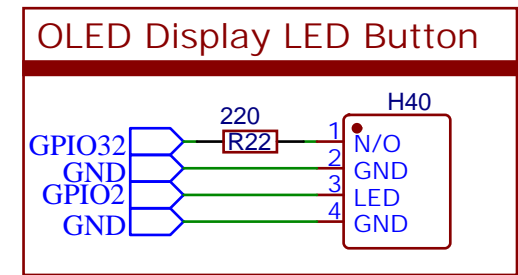
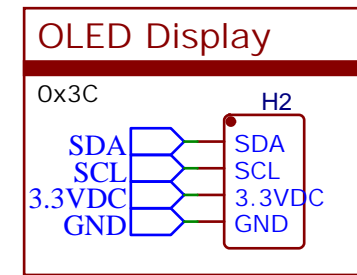
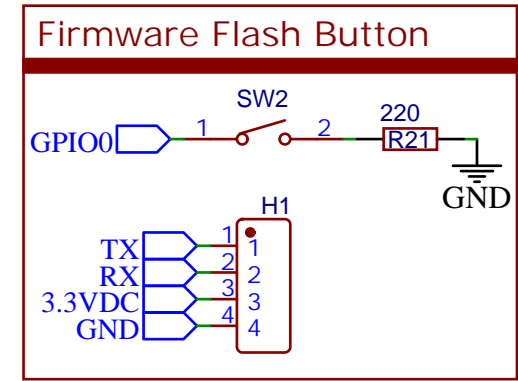
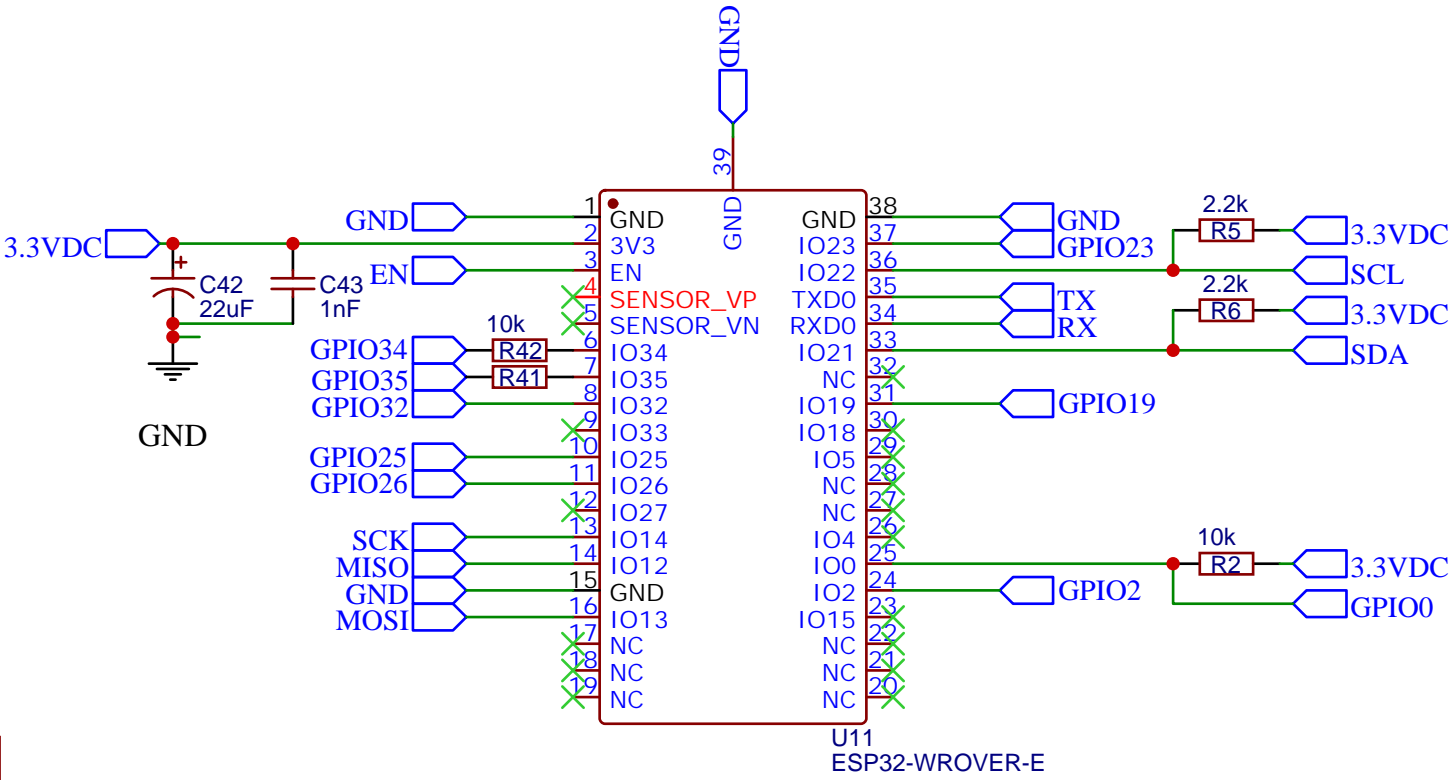
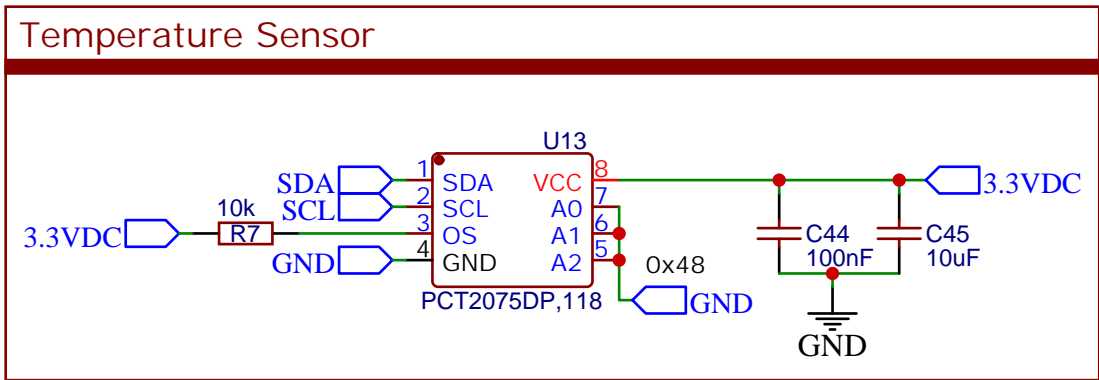
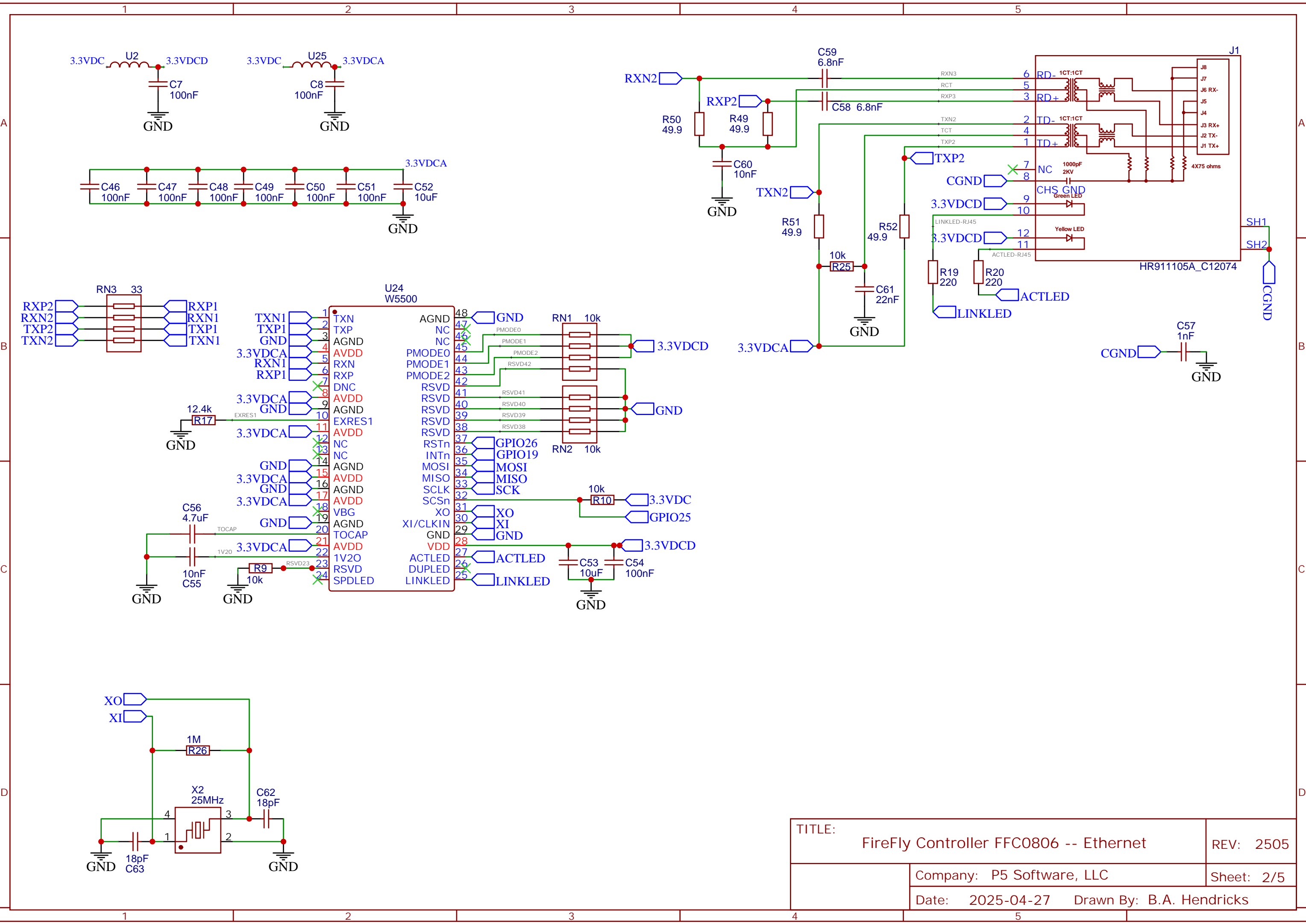


U31 = 30m ± 25% 30 @100MHz 0603 Ferrite Bead

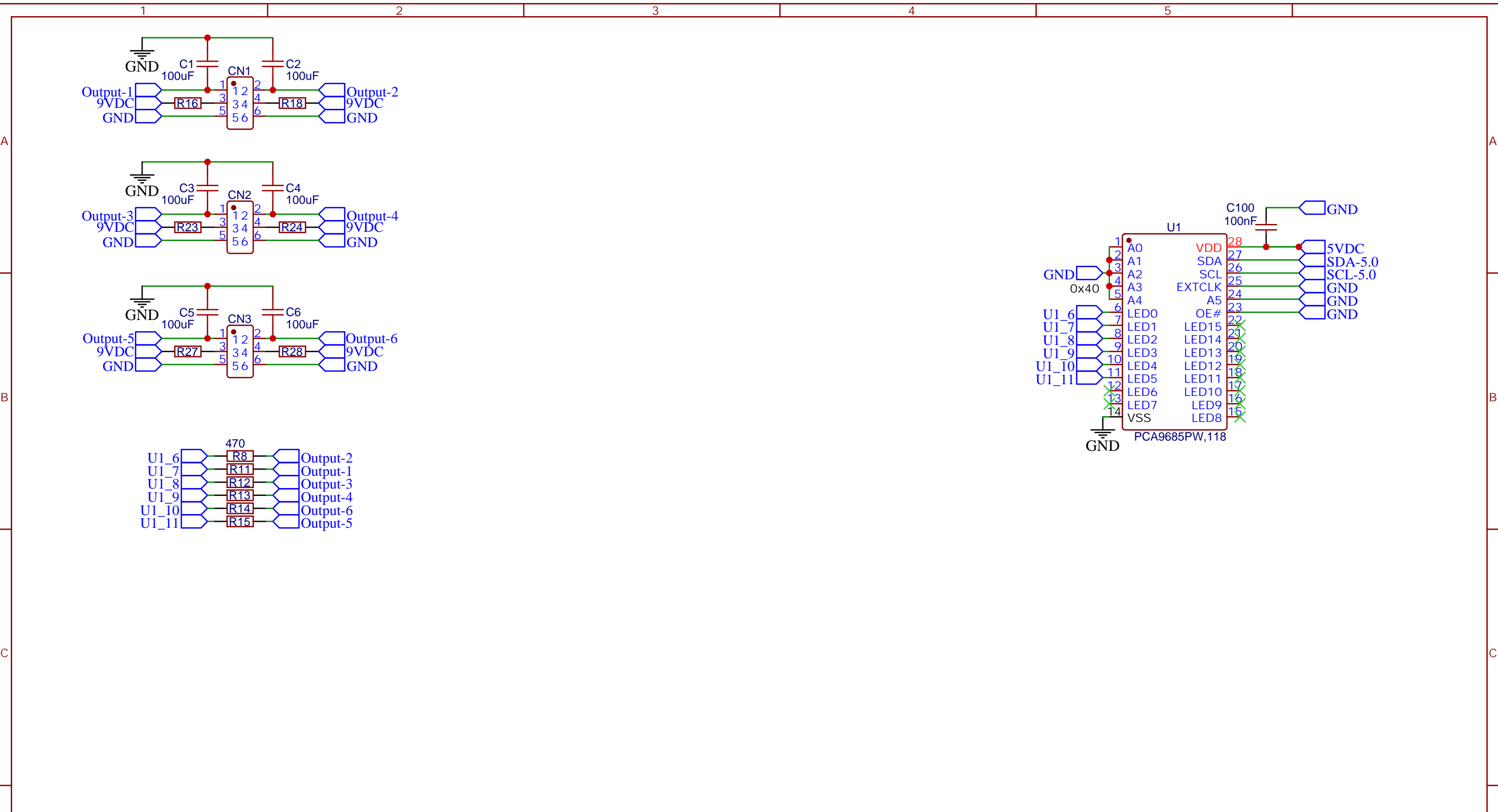


TITLE: FireFly Controller FFC0806 -- MCU		REV: 2505
	Company: P5 Software, LLC	Sheet: 1/5
	Date: 2025-04-27	Drawn By: B.A. Hendricks

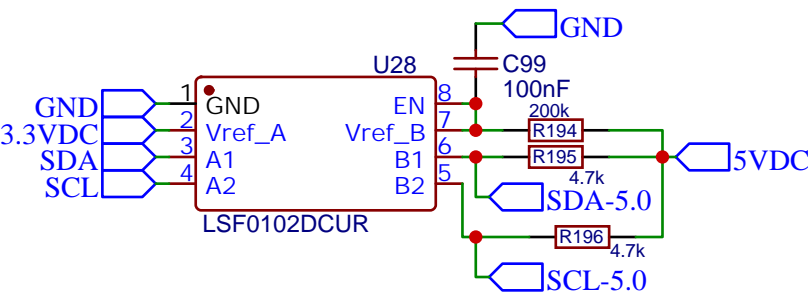


TITLE: FireFly Controller FFC0806 -- Ethernet		REV: 2505
	Company: P5 Software, LLC	Sheet: 2/5
	Date: 2025-04-27	Drawn By: B.A. Hendricks

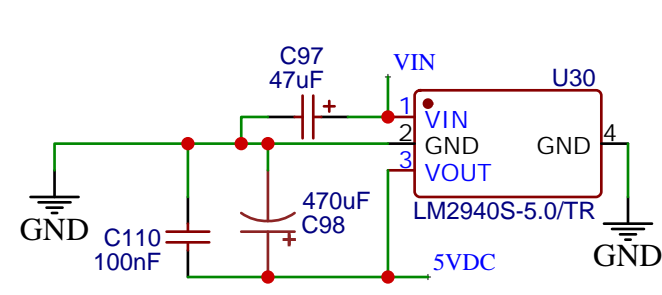
TITLE: FireFly Controller FFC0806 -- Inputs 1-8		REV: 2505
	Company: P5 Software, LLC	Sheet: 3/5
	Date: 2025-04-27 Drawn By: B.A. Hendricks	



i2C Logic Shifter



5VDC Power Supply



Resistors R16, R18, R23, R24, R27, R28 = 1k

TITLE: FireFly Controller FFC0806 -- Outputs 1-6		REV: 2505
	Company: P5 Software, LLC	Sheet: 4/5
	Date: 2025-04-27 Drawn By: B.A. Hendricks	

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Changes made since rev 2305

Connected Ethernet INTn (pin 36) to GPIO19 (pin 31)
Changed output capacitor on low-pass filter from 22uf to 100uf (C883598)
Changed output 510 array (C183868) to 470 individual (C23179) because of discontinuation
Changed output power supply 510 array (C183868) to 1k individual (C21190) because of discontinuation
Moved OLED Button LED to GPIO2 from GPIO33

I2C Addresses

0x20

Inputs Ports 1-4

0x21

Inputs Ports 5-8

0x40

Output Ports 1-6

0x70

Output All-Call

0x48

Temperature

0x50

EEPROM

0x3C

OLED Display Header
(Check Display Pinout)

A

B

C

D

A

B

C

D

TITLE: FireFly Controller FFC0806 -- Notes		REV: 2505
	Company: P5 Software, LLC	Sheet: 5/5
	Date: 2025-04-27 Drawn By: B.A. Hendricks	