

LED Indicators

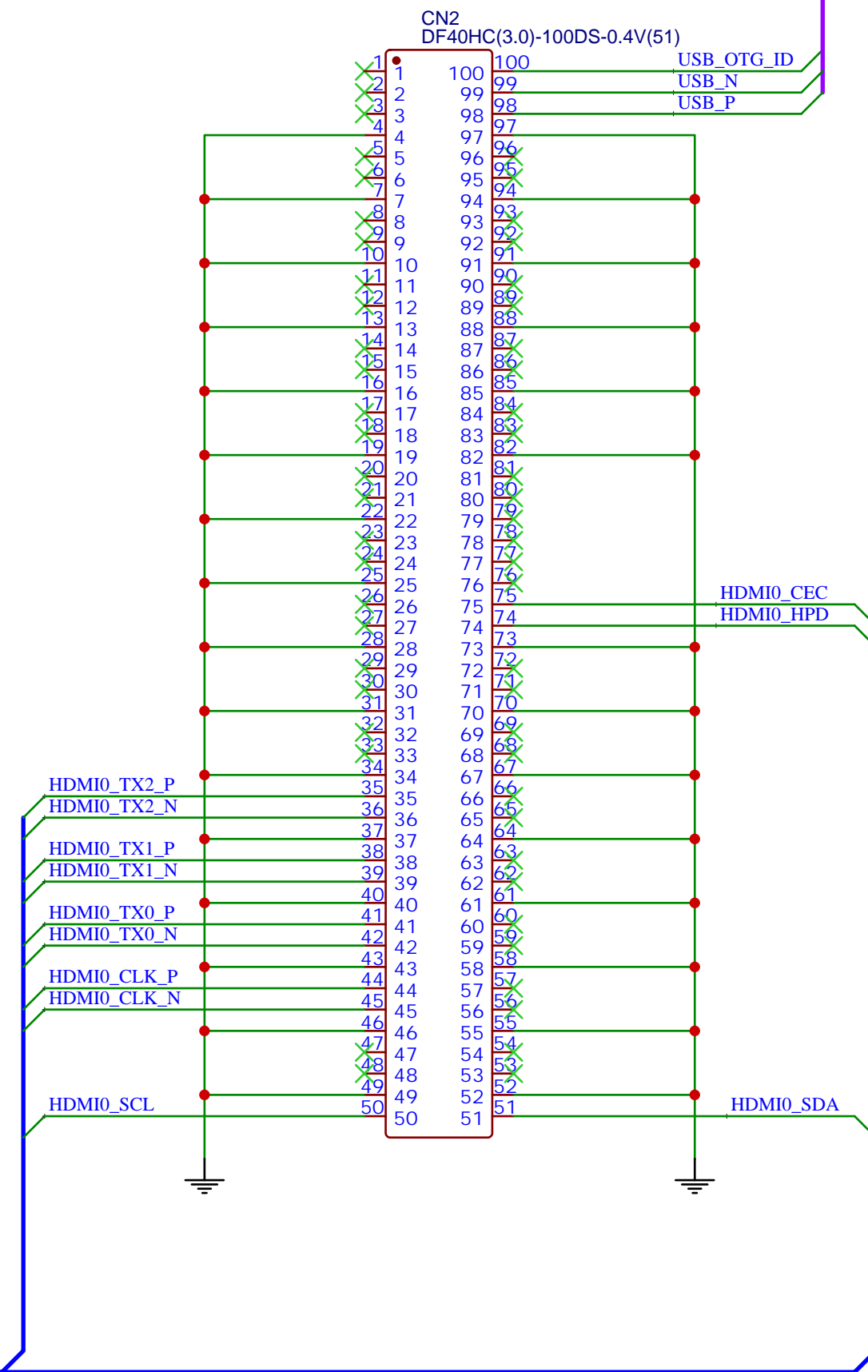
The diagram illustrates a circuit for two LED indicators. The components and connections are as follows:

- Inputs:** Two pins, `Pi_LED_nPWR` and `Pi_LED_nACT`, are shown as blue connectors.
- Resistors:** Two resistors, `R21` and `R22`, both with a value of `330`, are connected in series with the inputs.
- LEDs:**
 - A yellow LED, labeled `0805Y (Yellow) POWER`, is connected to `R21`.
 - A green LED, labeled `0805G (Green) ACTIVE`, is connected to `R22`.
- Grounding:** The cathodes of both LEDs are connected to a common ground point labeled `CM4_3V3`.

I2C External Devices

Power Distribution

The diagram illustrates a power distribution circuit. A +5V supply is connected to a diode D6 (B5819W) in series with a fuse F1 (BSMD0805-050-24V). The output is labeled +5V_HDMI. The +5V supply is also connected to a series of capacitors C67, C68, C69, and C70, each 100nF. A CM4_3V3 supply is connected to a series of capacitors C71 and C72, each 100nF. A fuse F2 (BSMD0805-050-24V) is connected to the CM4_3V3 supply, with the output labeled 3V3.



HDMI

HDMI-019S

HDMI0_TX2_P 1

HDMI0_TX2_N 2

HDMI0_TX1_P 3

HDMI0_TX1_N 4

HDMI0_TX0_P 5

HDMI0_TX0_N 6

HDMI0_CLK_P 7

HDMI0_CLK_N 8

HDMI0_CEC 9

HDMI0_SCL 10

HDMI0_SDA 11

HDMI0_HPD 12

+5V_HDMI 13

GND 14

GND 15

GND 16

GND 17

GND 18

GND 19

D2+ 20

D2- 21

D1+ 22

D1- 23

D0+ 24

D0- 25

CK+ 26

CK- 27

HEC 28

I2C-CLK 29

I2C_DATA 30

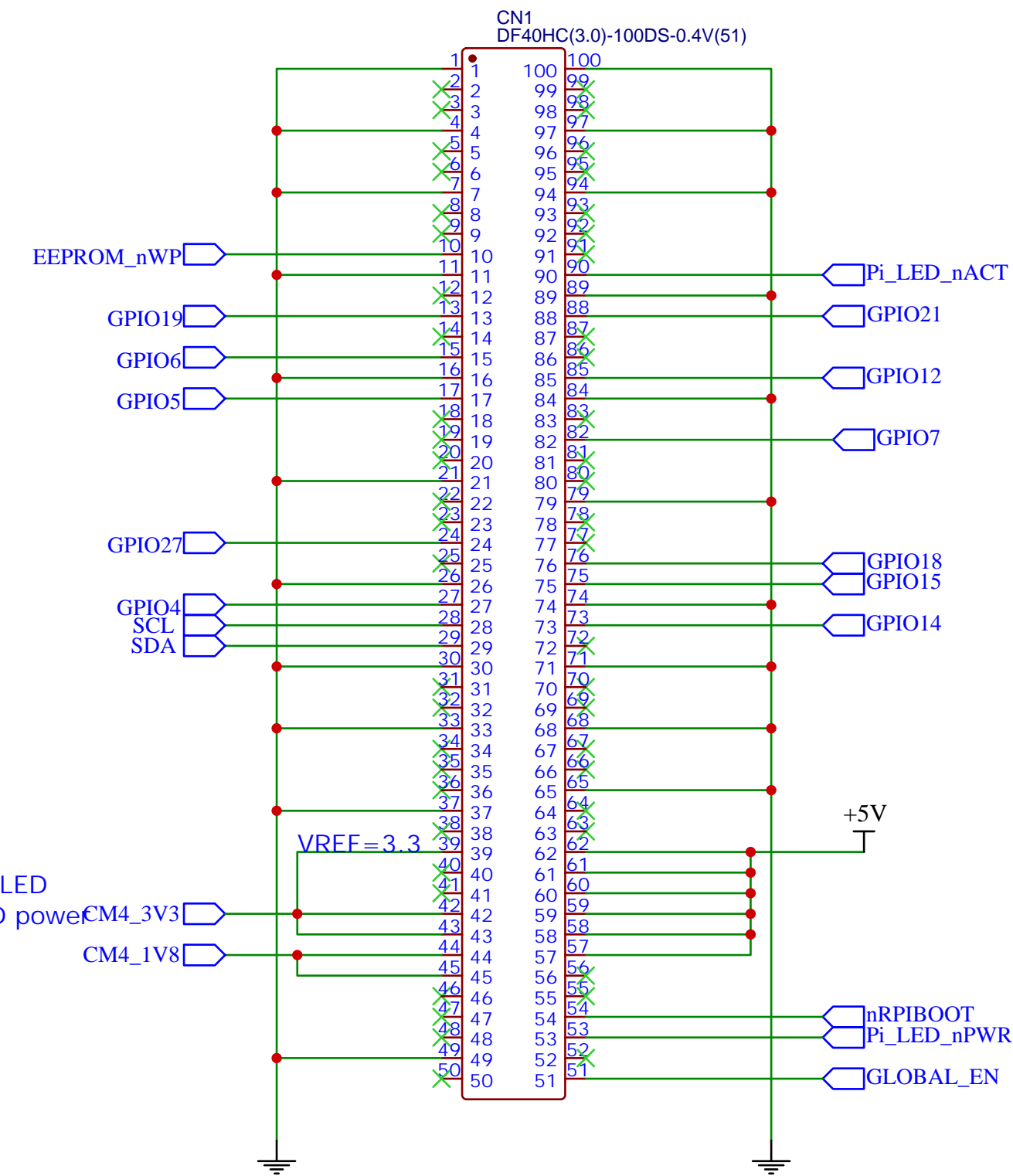
GND 31

+5V 32

HOT_PLUG_DET 33

SHD 34

SHD 35



eCM4_3V3

[illegible]

PWR
WJ500V-5.08-2P-14-00A

PVCC

D8
SS54

U8
LM2596S-5.0/TR

C13
220uF

C14
100nF

D7
SS54

L5
33uH

GND

L6
33uH

+5V

C32
220uF

C33
100nF

C34
220uF

C35
100nF

U9
LM2596S-5.0/TR

D11
SS54

C56
220uF

C55
100nF

D5
SS54

L1
33uH

GND

L2
33uH

+5V_UP

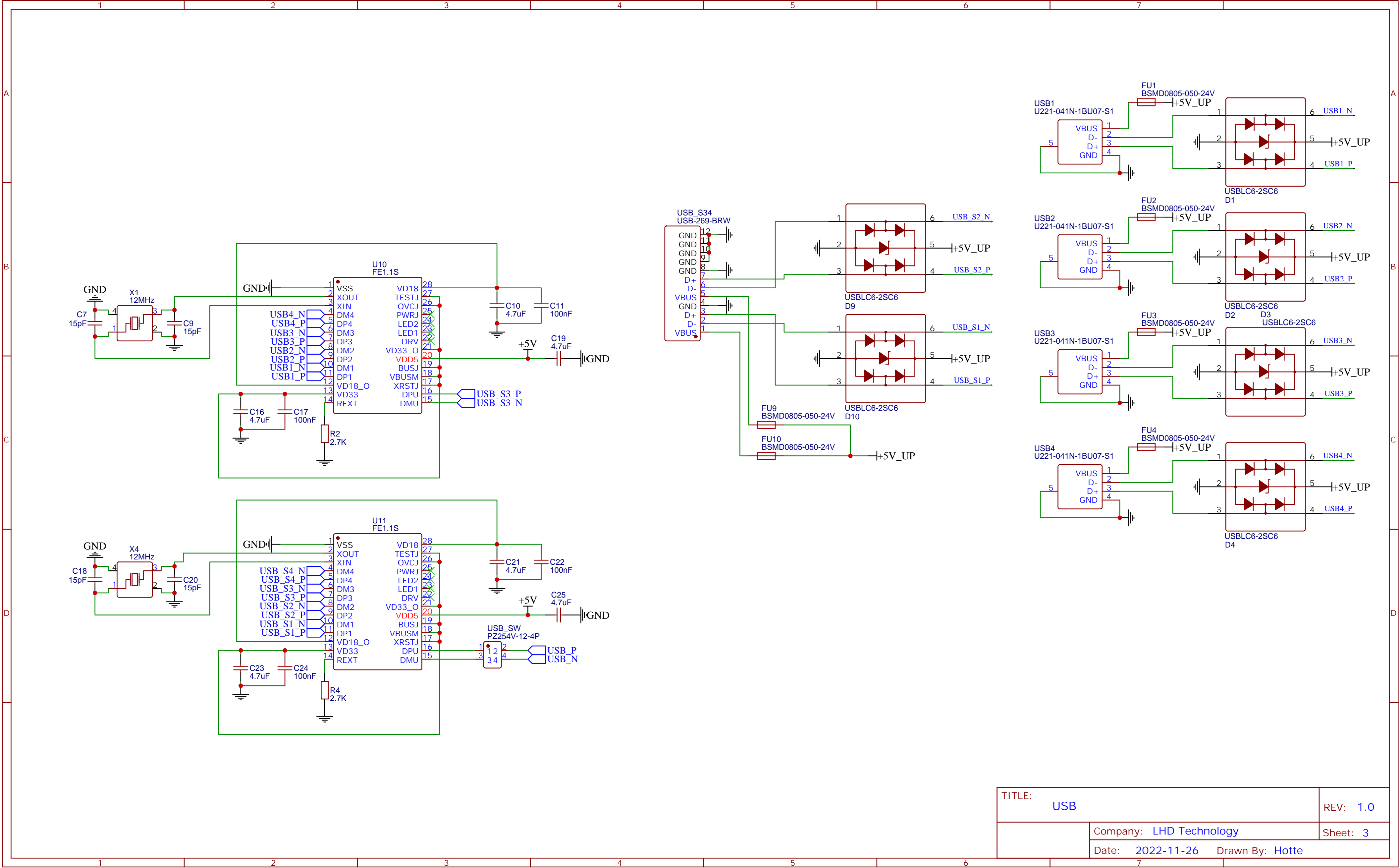
C59
220uF

C57
100nF

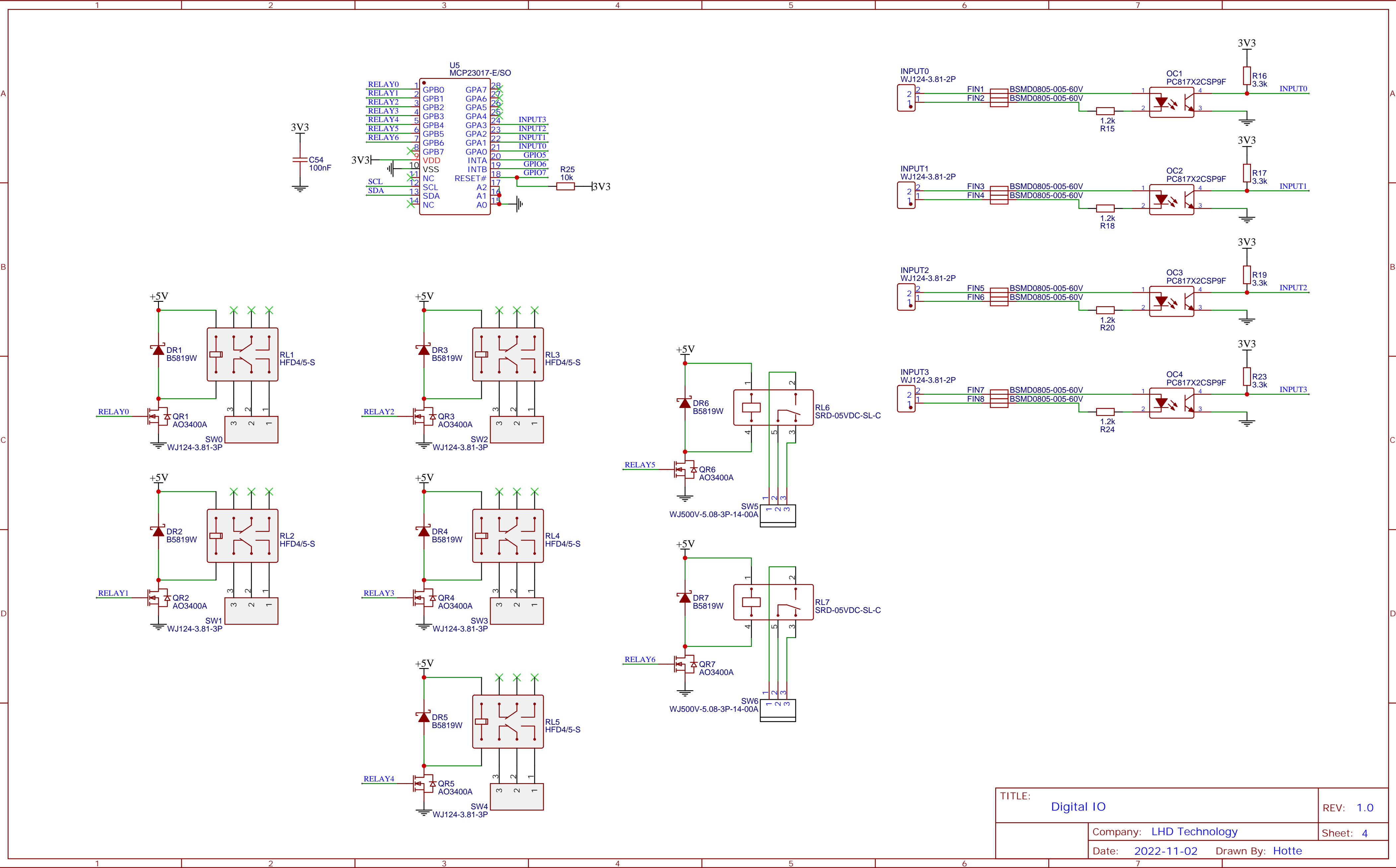
C60
220uF

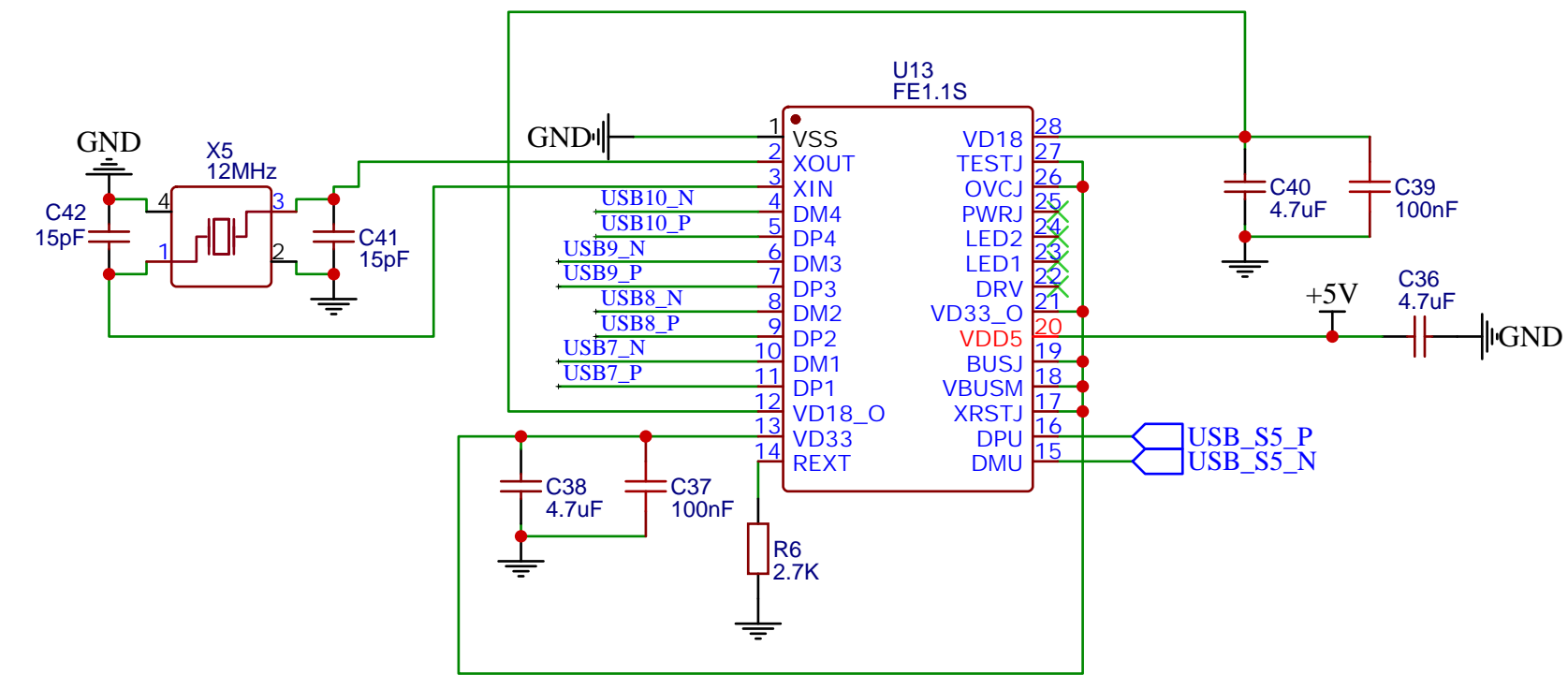
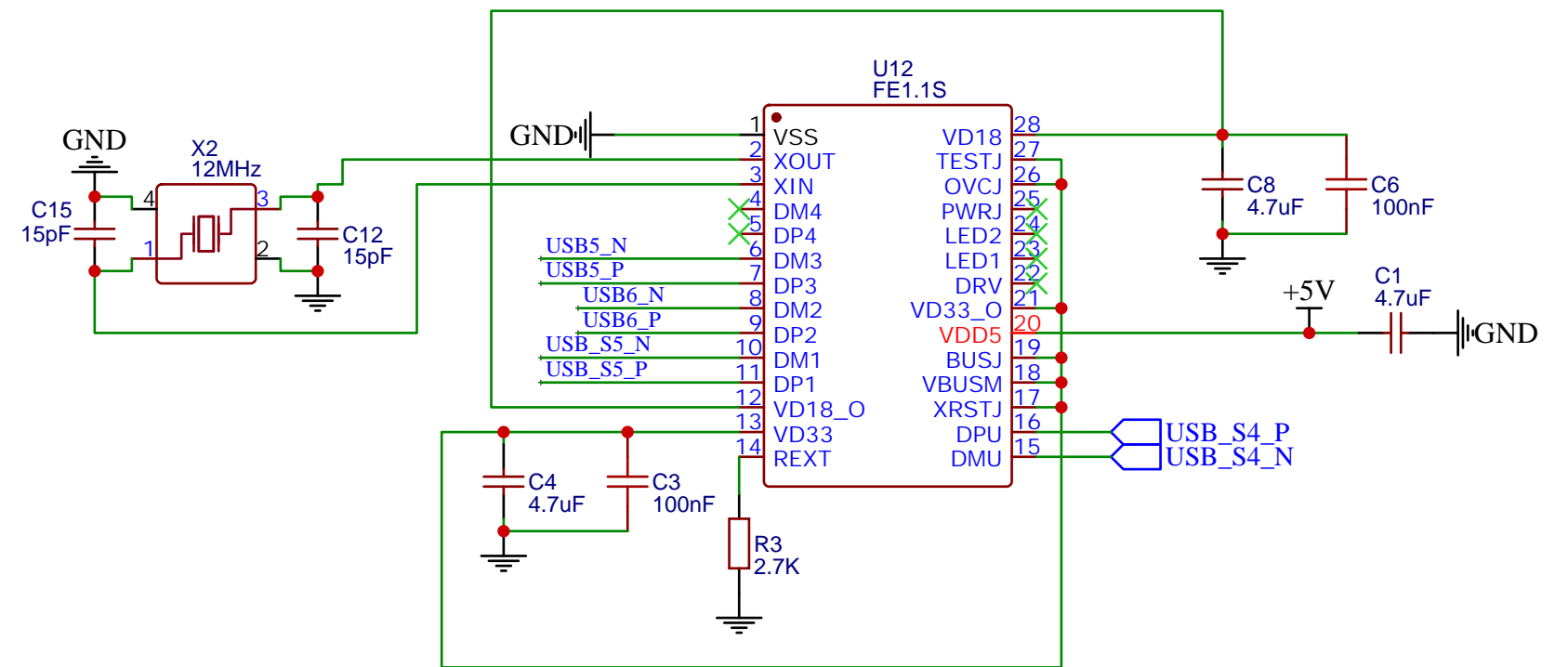
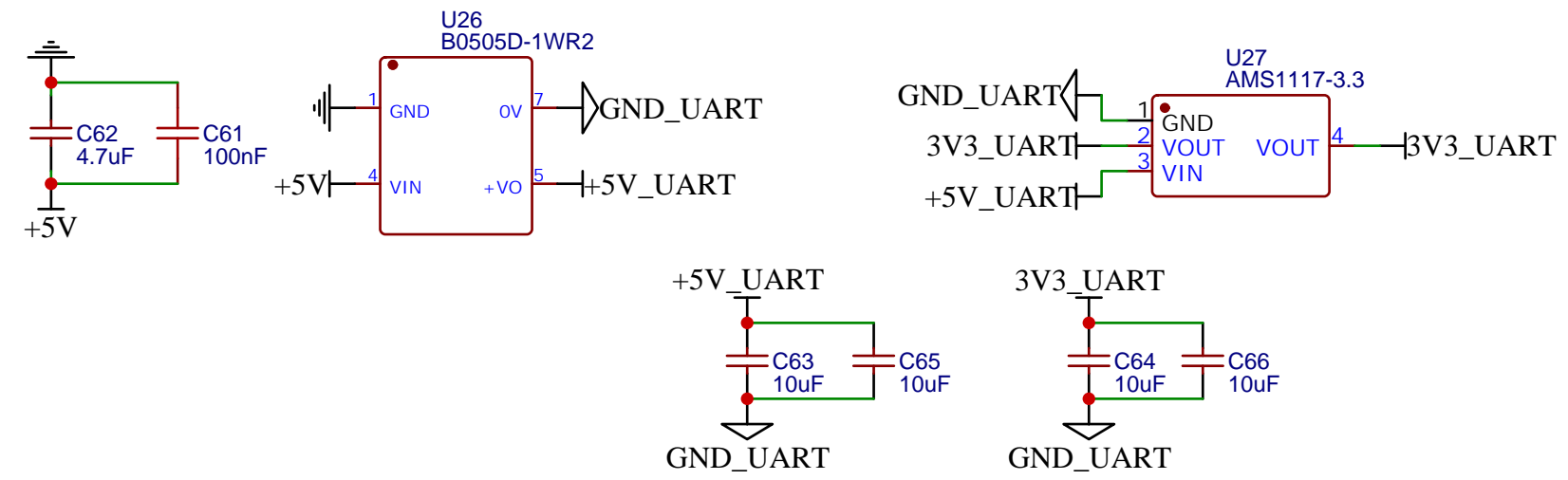
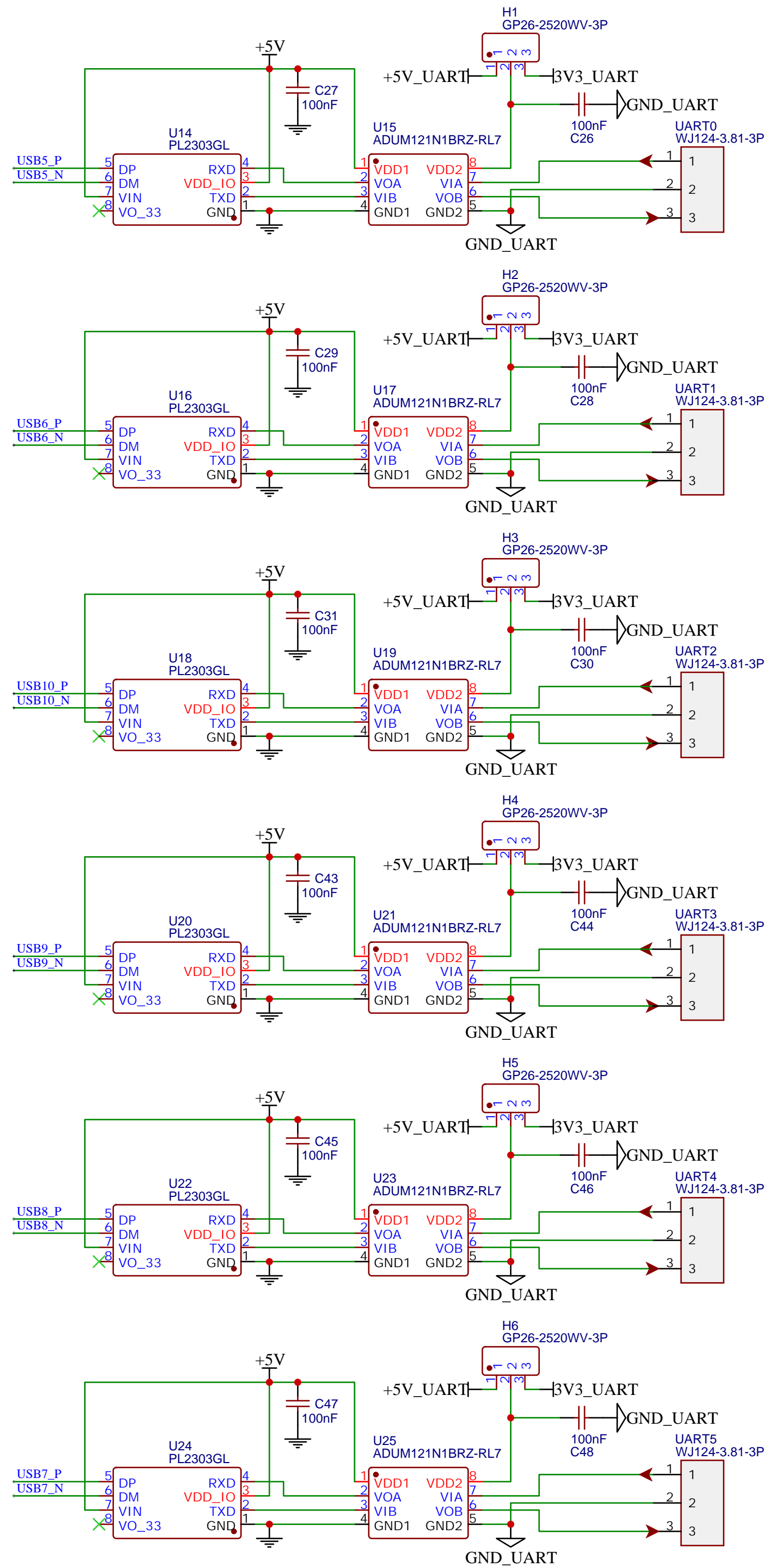
C58
100nF

TITLE: Power Supply		REV: 1.0
	Company: LHD Technology	Sheet: 2
	Date: 2022-11-01 Drawn By: Hotte	

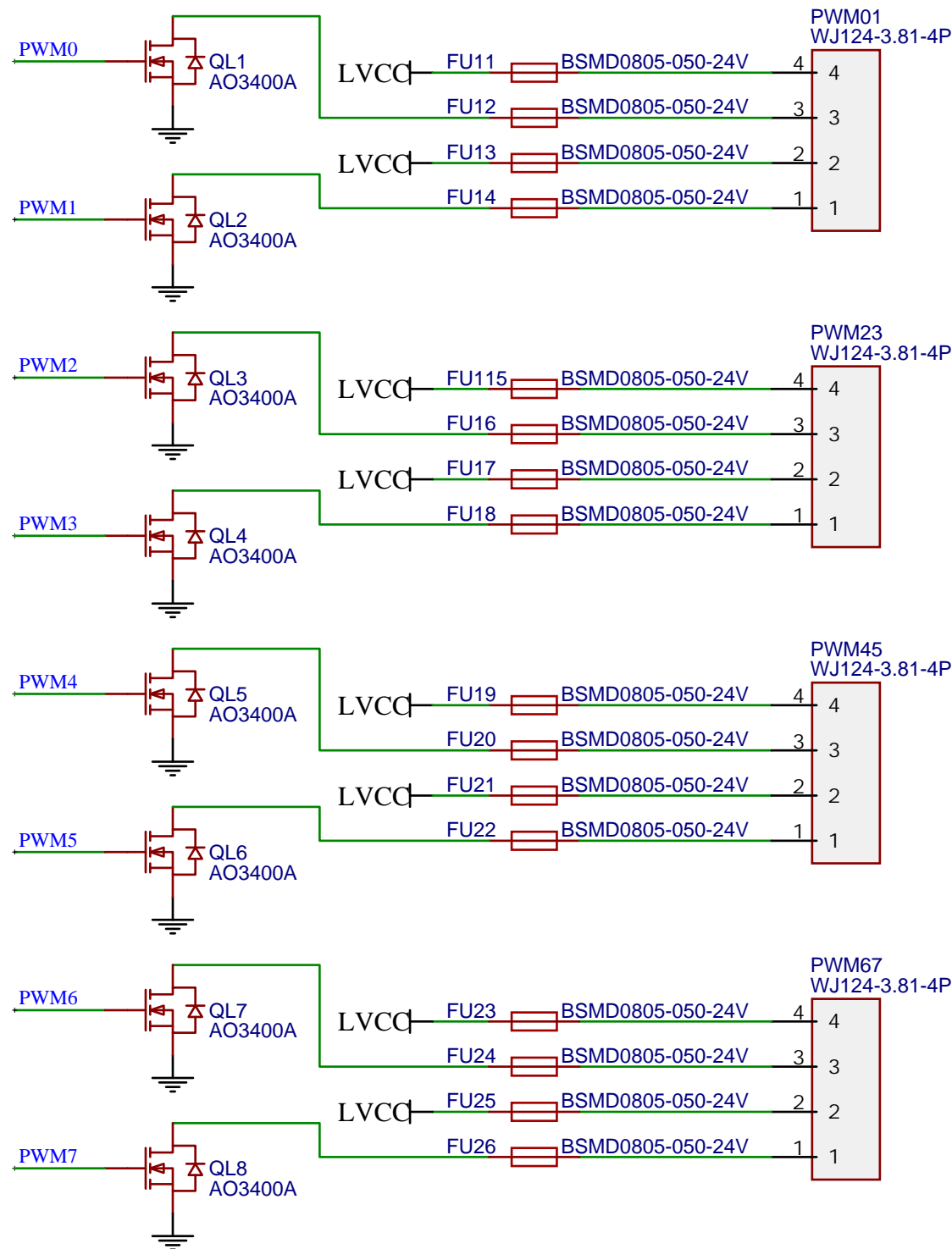
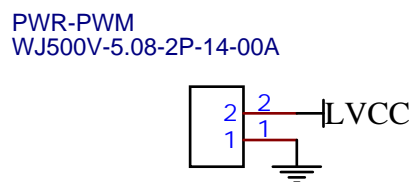
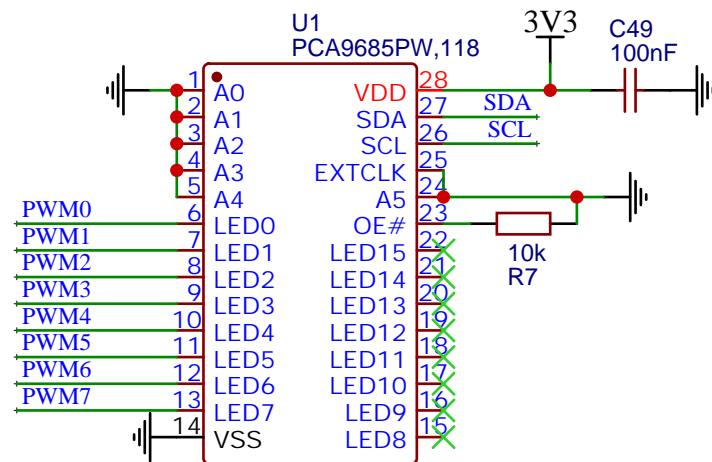


TITLE: USB		REV: 1.0
	Company: LHD Technology	Sheet: 3
	Date: 2022-11-26	Drawn By: Hotte





TITLE: UART		REV: 1.0
Company: LHD Technology		Sheet: 5
Date: 2022-11-02		Drawn By: Hotte Shen



TITLE: PWM		REV: 1.0
	Company: LHD Technology	Sheet: 6
	Date: 2022-11-02	Drawn By: Hotte

