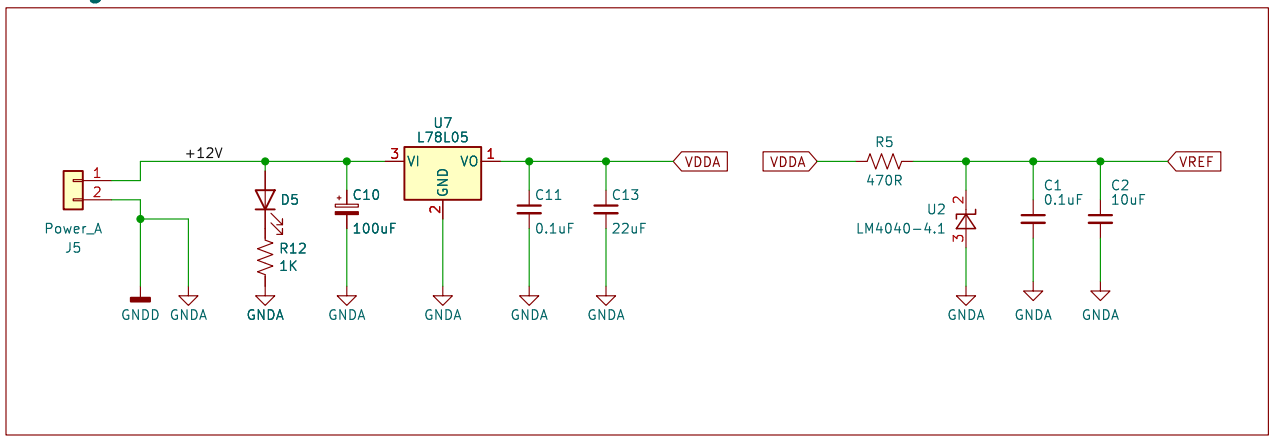
Analog



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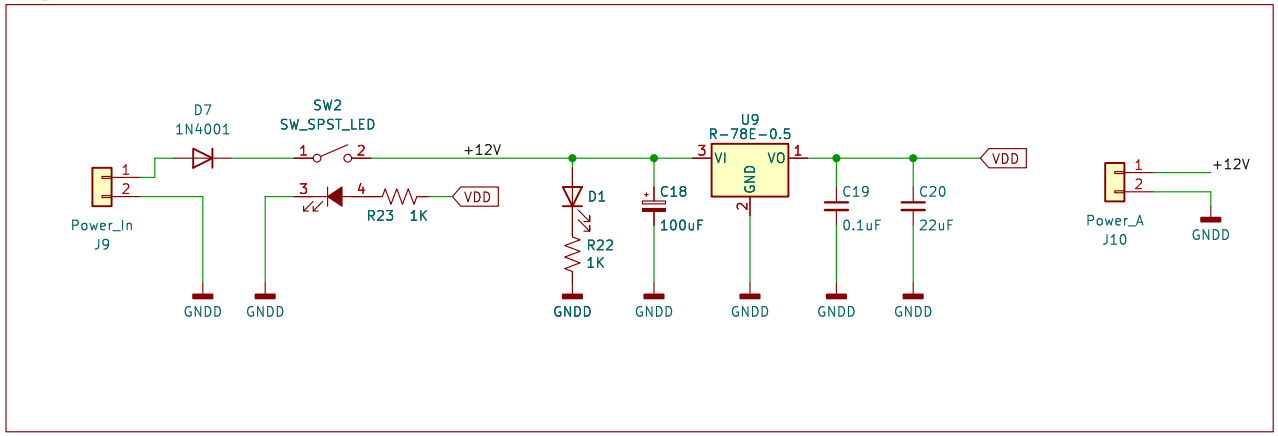
Digital



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Notes:

Switch LED VCC from FP LED VCC

Sheet: /
File: DummyLoadV2.kicad_sch

Title: Dummy Load V2

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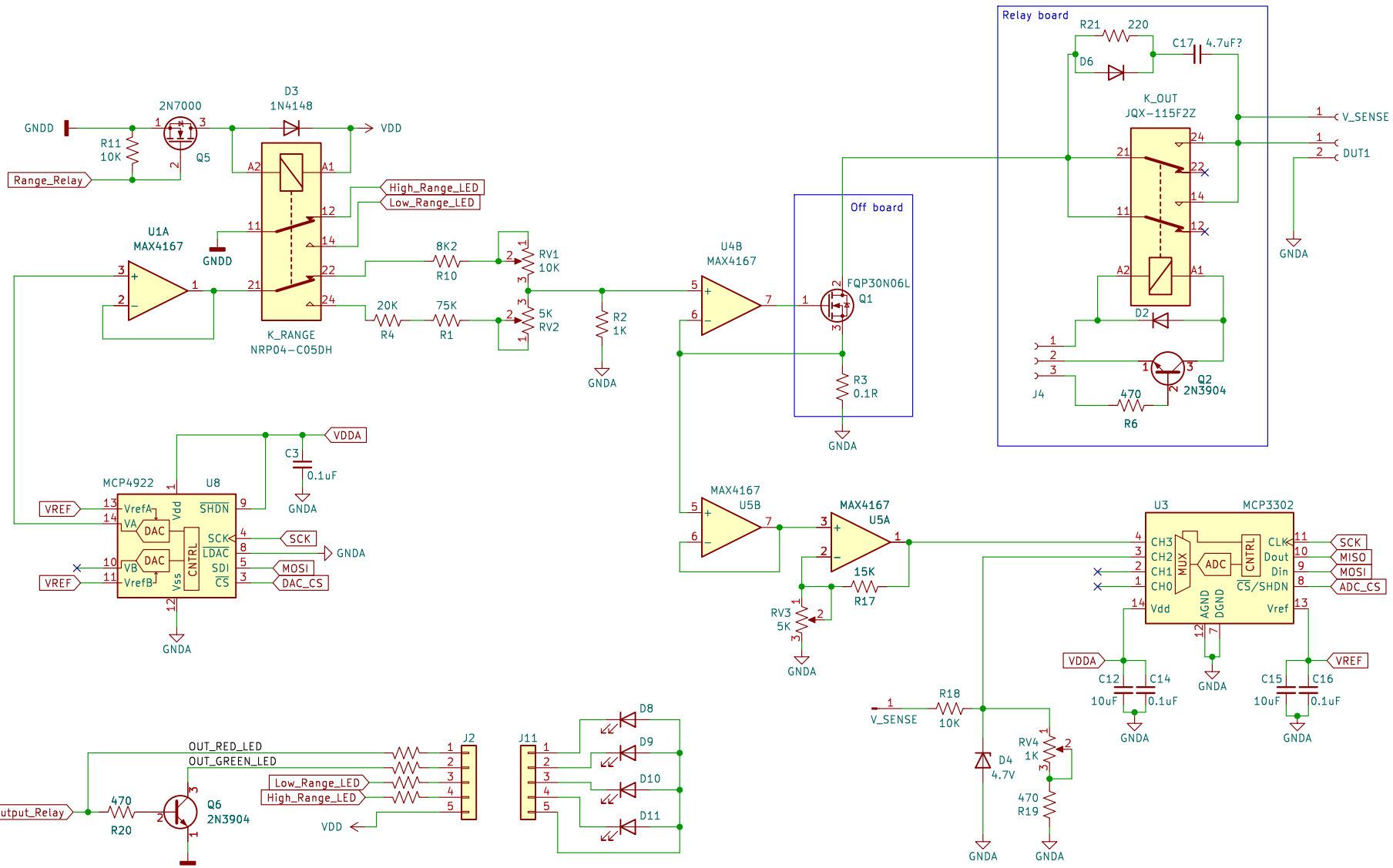
Relay board
R21 220
C17 4.7uF?
D6
K_OUT
JQX-115F2Z
V_SENSE
DUT1
GNDA
D2
Q2
2N3904
J4
470
R6
2N7000
Q5
D3
1N4148
GNDD
VDD
R11
10K
Range_Relay
High_Range_LED
Low_Range_LED
U1A
MAX4167
GNDD
8K2
R10
RV1
10K
20K
R4
75K
R1
5K
RV2
K_RANGE
NRP04-C05DH
R2
1K
U4B
MAX4167
Off board
FQP30N06L
Q1
R3
0.1R
GNDA
VDDA
C3
0.1uF
MCP4922
U8
VREF
VrefA
VA
DAC
Vdd
SHDN
SCK
LDAC
SDI
CS
MOSI
DAC_CS
VB
VrefB
Vss
CNTRL
MAX4167
U5B
MAX4167
U5A
15K
R17
RV3
5K
U3
MCP3302
CH3
CH2
CH1
CH0
MUX
ADC
CNTRL
CLK
Dout
Din
CS/SHDN
Vdd
AGND
DGND
Vref
C12
10uF
C14
0.1uF
C15
10uF
C16
0.1uF
R18
10K
D4
4.7V
RV4
1K
470
R19
OUT_RED_LED
OUT_GREEN_LED
Low_Range_LED
High_Range_LED
J2
Output_Relay
470
R20
Q6
2N3904
J11
D8
D9
D10
D11
J8
Digital
MISO
MOSI
SCK
DAC_CS
ADC_CS
Output_Relay
Range_Relay
SPI Bus wire colors
CLK – Blue
CS – Purple
MOSI – Green
MISO – White
Relay snubber from
https://sound-au.com/articles/relays2.htm#s42
Sheet: /Analog/
File: DummyLoadV2_Analog.kicad_sch
Title: Dummy Load V2
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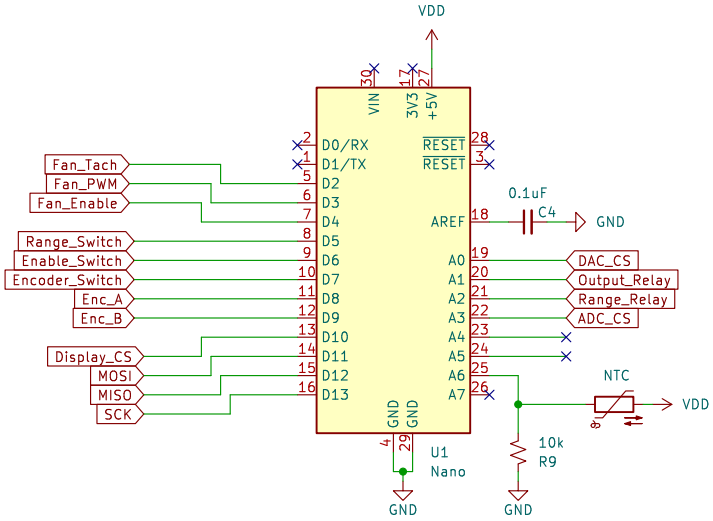

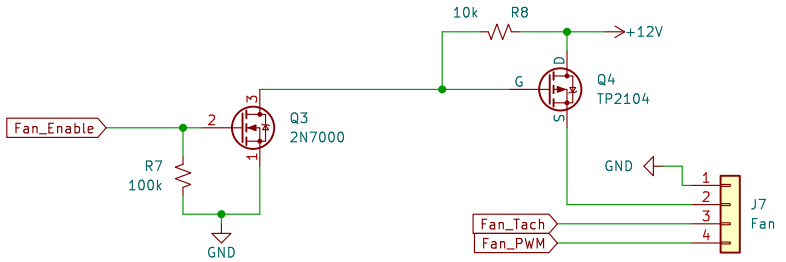

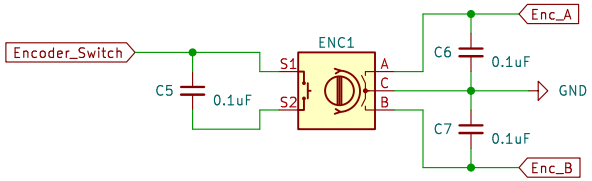

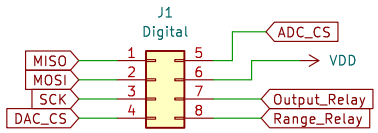

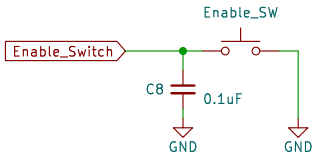

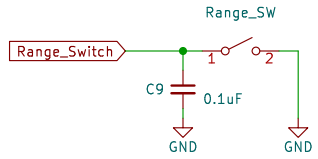

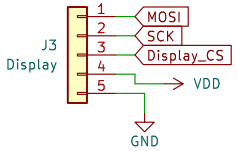

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Title: Dummy Load V2	
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