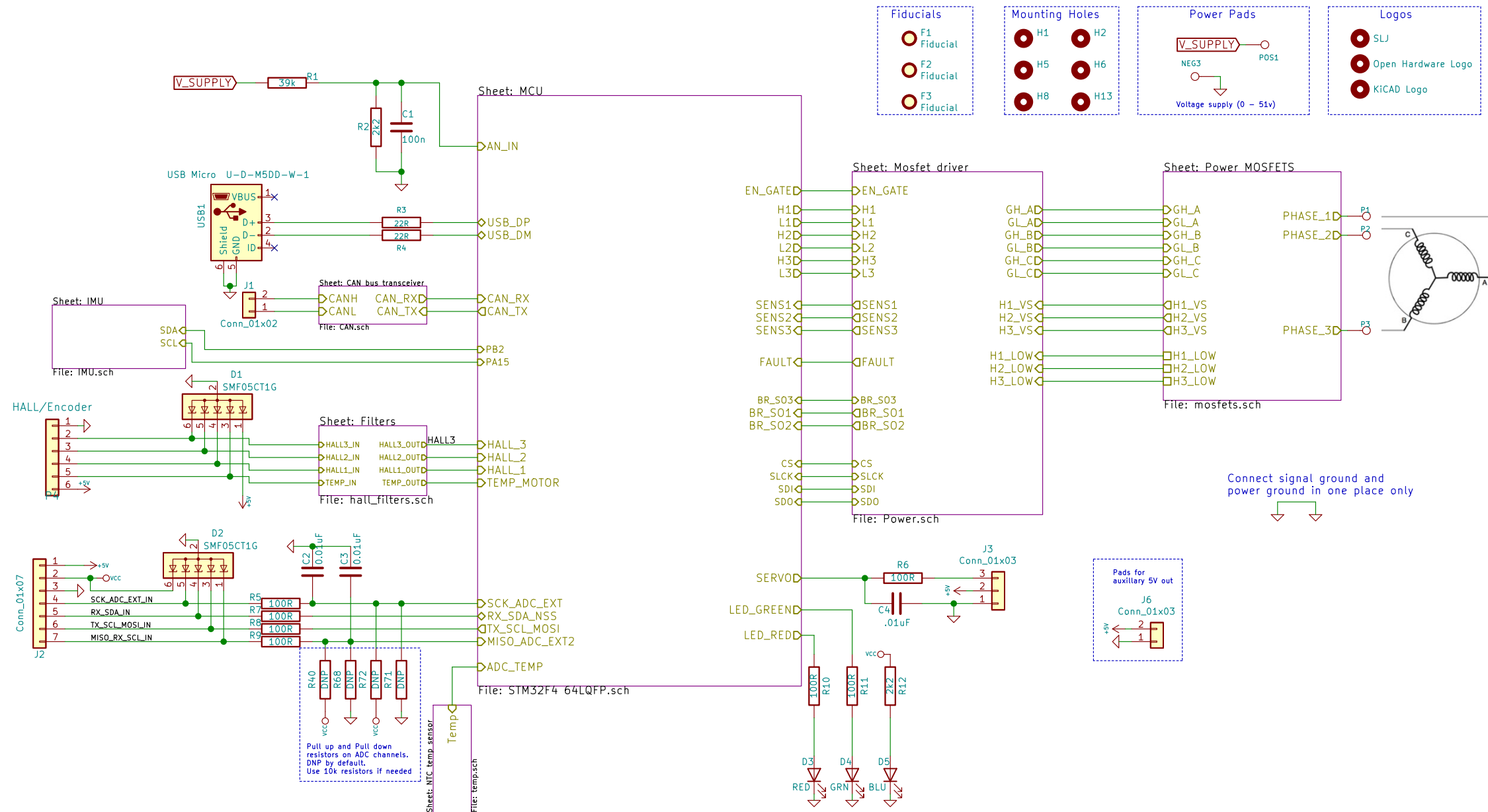
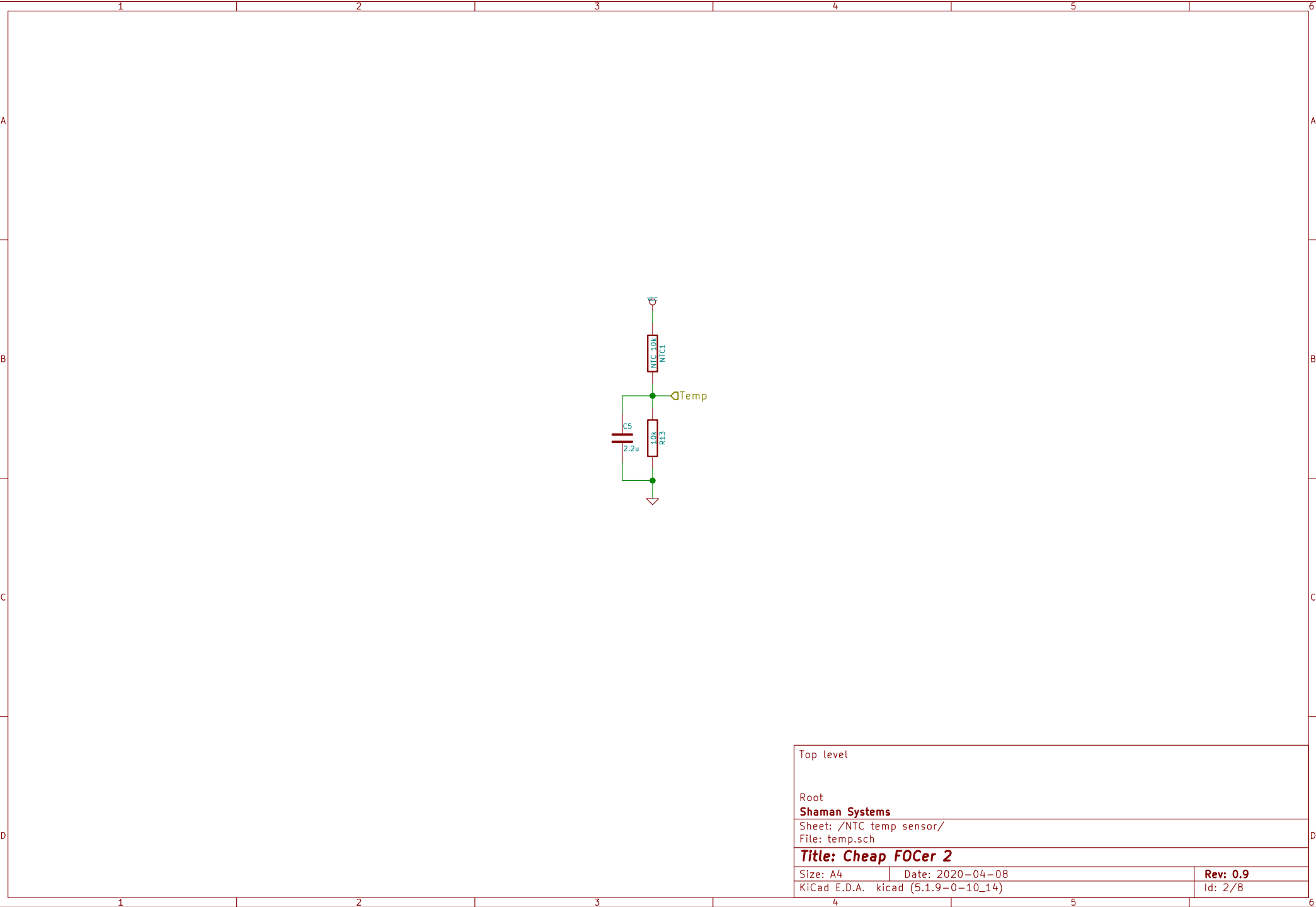


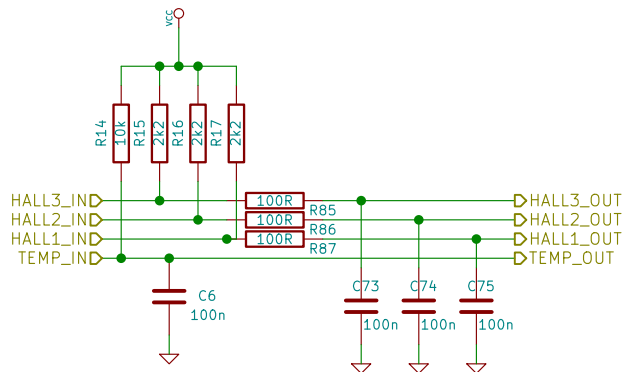
# Cheap FOCer 2



Top level		
Root		
Shaman Systems		
Sheet: /		
File: Cheap FOCer 2 60mm.sch		
Title: Cheap FOCer 2		
Size: A3	Date: 2020-04-08	Rev: 0.9
KiCad E.D.A. kicad (5.1.9-0-10.14)		Id: 1/8



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Root		
Shaman Systems		
Sheet: /NTC temp sensor/		
File: temp.sch		
Title: Cheap FOCer 2		
Size: A4	Date: 2020-04-08	Rev: 0.9
KiCad E.D.A. kicad (5.1.9-0-10_14)		Id: 2/8



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Root

**Shaman Systems**

Sheet: /Filters/

File: hall\_filters.sch

**Title: Cheap FOCer 2**

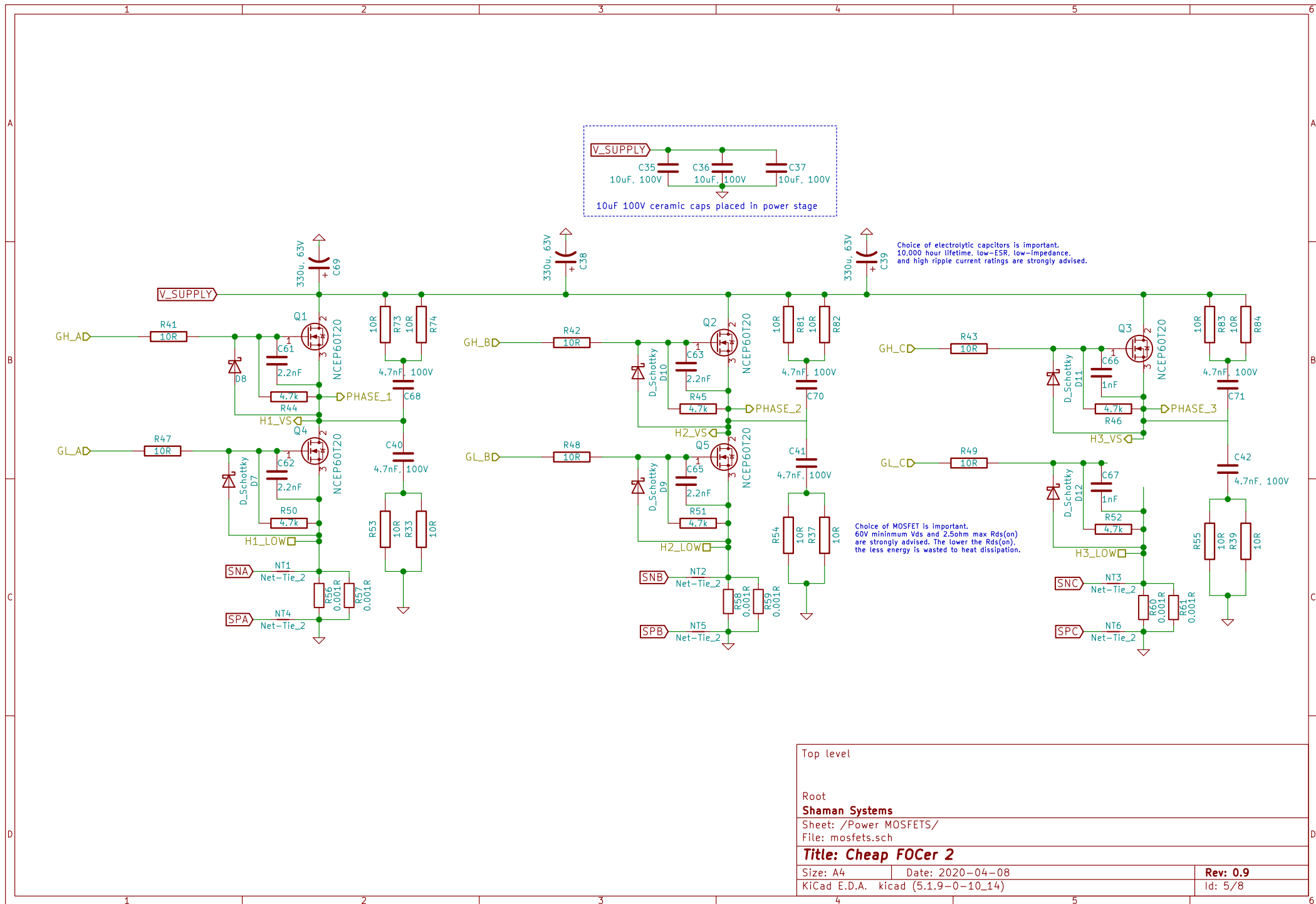
Size: User      Date: 2020-04-08

KiCad E.D.A.    kicad (5.1.9-0-10\_14)

**Rev: 0.9**

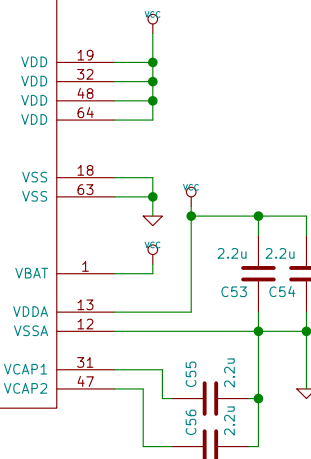
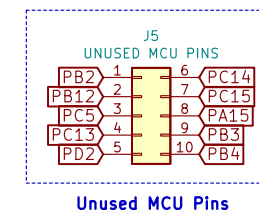
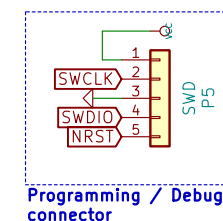
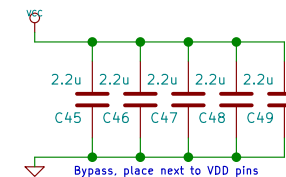
Id: 3/8



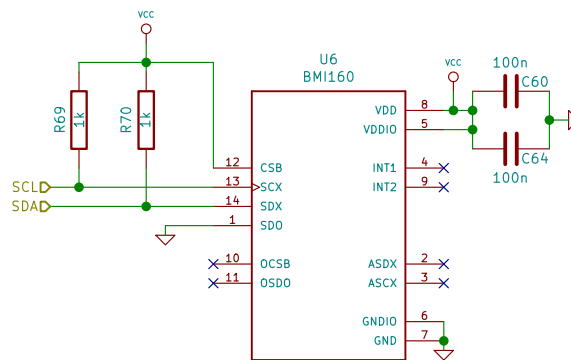




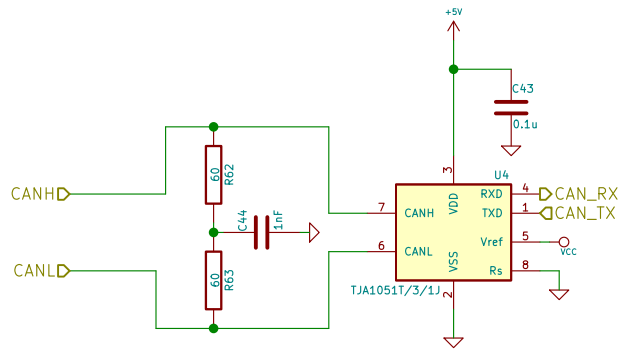
SENS1▷	14	PA0(ADC123_IN0/WKUP)
SENS2▷	15	PA1(ADC123_IN1)
SENS3▷	16	PA2(ADC123_IN2)
ADC_TEMP▷	17	PA3(ADC123_IN3)
RX_SDA_NSS▷	20	PA4(ADC12_IN4/DAC1_OUT)
SC1_ADC_EXT▷	21	PA5(ADC12_IN5/DAC2_OUT)
MISO_ADC_EXT▷	22	PA6(ADC12_IN6)
TX_SCL_MOSI▷	23	PA7(ADC12_IN7)
H1◇	41	PA8
H2◇	42	PA9(OTG_FS_VBUS)
H3◇	43	PA10
USB_DM◇	44	PA11
USB_DP◇	45	PA12
LED_GREEN▷	26	PB0(ADC12_IN8)
LED_RED▷	27	PB1(ADC12_IN9)
EN_GATE▷	57	PB5
SERVO▷	58	PB6
FAULT▷	59	PB7
CAN_RX▷	61	PB8
CAN_TX▷	62	PB9
TX_SCL_MOSI▷	29	PB10
RX_SDA_NSS▷	30	PB11
PB12▷	33	PB12
L1◇	34	PB13(OTG_HS_VBUS)
L2◇	35	PB14
L3◇	36	PB15
BR_S01▷	8	PC0(ADC123_IN10)
BR_S02▷	9	PC1(ADC123_IN11)
BR_S03▷	10	PC2(ADC123_IN12)
AN_IN▷	11	PC3(ADC123_IN13)
TEMP_MOTOR▷	24	PC4(ADC12_IN14)
PC5▷	25	PC5(ADC12_IN15)
HALL_1▷	37	PC6
HALL_2▷	38	PC7
HALL_3▷	39	PC8
CSD▷	40	PC9
SLCK▷	51	PC10
SD0▷	52	PC11
SD1▷	53	PC12
PC13▷	2	PC13_(RTC_AF1)
PD2▷	54	PD2



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Root		
Shaman Systems		
Sheet: /IMU/		
File: IMU.sch		
Title: Cheap FOCer 2		
Size: User	Date: 2020-04-08	Rev: 0.9
KiCad E.D.A. kicad (5.1.9-0-10_14)		Id: 7/8



Top level

Root

**Shaman Systems**

Sheet: /CAN bus transceiver/

File: CAN.sch

**Title: Cheap FOCer 2**

Size: User Date: 2020-04-08

KiCad E.D.A. kicad (5.1.9-0-10\_14)

**Rev: 0.9**

Id: 8/8