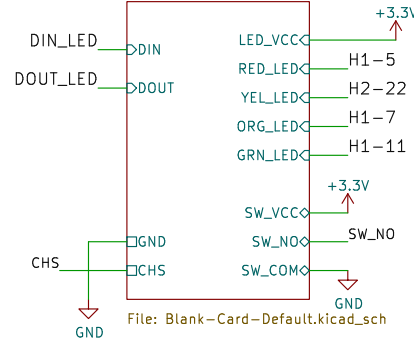


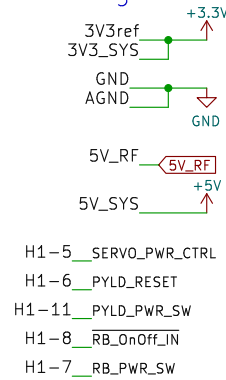
Edge Connector

Card Edge for HSEC8-160-01-S-DV-A-K-TR	
SEP1	1
-Z_SOLAR_TLE	3
-Z_SOLAR_RTN	5
-Z_SOLAR_PWR	7
SEP1_RET	9
BATT_NTC	11
BP_LED_EN	13
BP_LED_PWR	15
H1-5	17
GND	19
H1-7	21
H2-7	23
H1-9	25
H2-9	27
H1-11	29
H2-11	31
H1-13	33
H2-13	35
RB	37
H2-15	39
H1-17	41
H2-17	43
H1-19	45
H2-19	47
H1-21	49
H2-21	51
H1-23	53
H2-23	55
H1-25	57
5V_SYS	59
H1-27	61
3V3_SYS	63
RESET	65
GND	67
H1-31	69
AGND	71
5V_RF	73
H2-33	75
H1-35	77
H2-35	79
H1-37	81
H2-37	83
H1-39	85
H2-39	87
SDA_SYS	89
H2-41	91
SCL_SYS	93
H2-43	95
VBATT+	97
VBATT+	99
SELF_TEST	101
GND	103
VBATT-	105
VBATT-	107
H1-51	109
SEP3_RET	111
+Y_SOLAR_TLE	113
+Y_SOLAR_RTN	115
+Y_SOLAR_PWR	117
SEP3	119
SEP2	2
+X_SOLAR_TLE	4
+X_SOLAR_RTN	6
+X_SOLAR_PWR	8
SEP2_RET	10
H2-2	12
DIN_LED	14
DOUT_LED	16
H1-6	18
GND	20
H1-8	22
H2-8	24
H1-10	26
H2-10	28
H1-12	30
H2-12	32
H1-14	34
H2-14	36
H2-16	40
H1-18	42
H2-18	44
H1-20	46
H2-20	48
H1-22	50
H2-22	52
H1-24	54
H2-24	56
3V3ref	58
5V_SYS	60
H1-28	62
3V3_SYS	64
H1-30	66
GND	68
5V_USB	70
GND	72
5V_RF	74
H2-34	76
H1-36	78
H2-36	80
H1-38	82
H2-38	84
H1-40	86
H2-40	88
H1-42	90
H2-42	92
H1-44	94
H2-44	96
VBATT+	98
VBATT+	100
H1-48	102
GND	104
VBATT-	106
VBATT-	108
H1-52	110
SEP4_RET	112
-X_SOLAR_TLE	114
-X_SOLAR_RTN	116
-X_SOLAR_PWR	118
SEP4	120

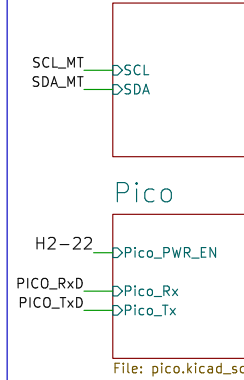
Backplane Card Interface



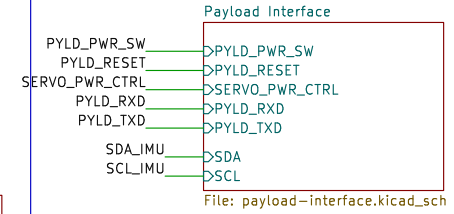
Card Edge to PIB Signals



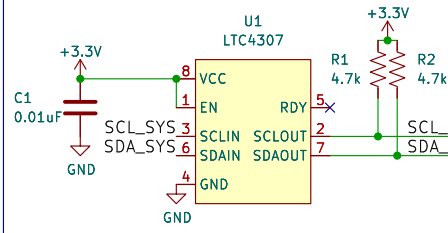
MT Drivers



TO FORAS PROMINEO PAYLOAD



I2C Buffer



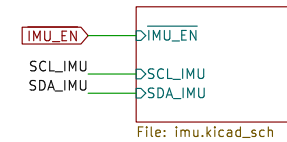
I2C-Protection-1



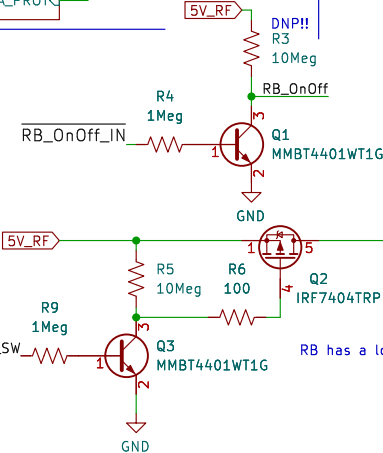
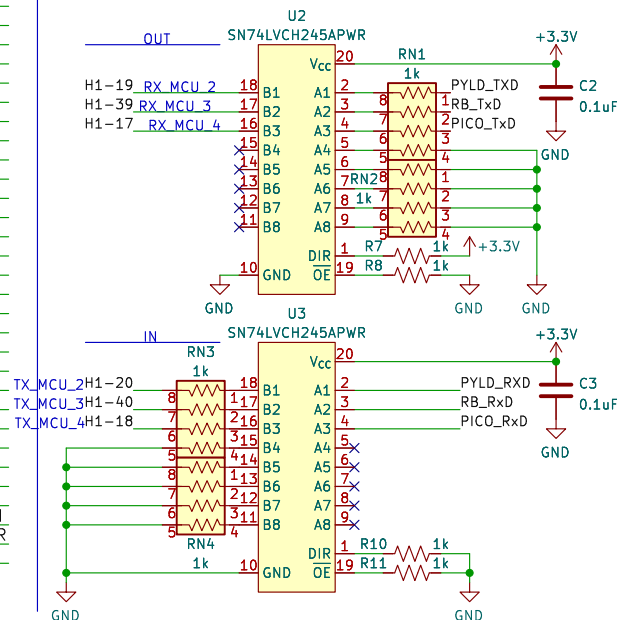
I2C-Protection-2



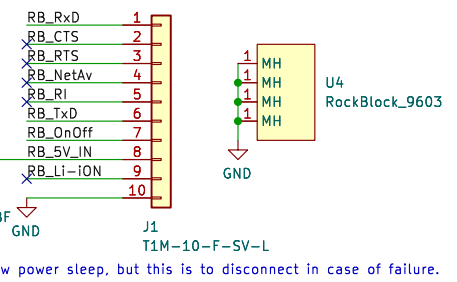
IMU



Serial IO Buffers



TO ROCKBLOCK 9603



Sierra Lobo INC.

Sheet: /

File: FP Interface Card.kicad_sch

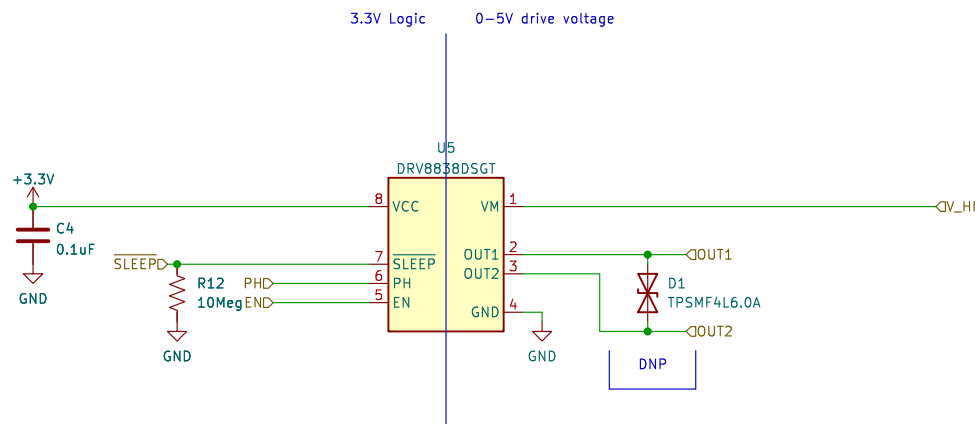
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Size: A4 Date: 2023-03-24

KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 1/17



Sierra Lobo INC

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File: Full_Bridge.kicad_sch

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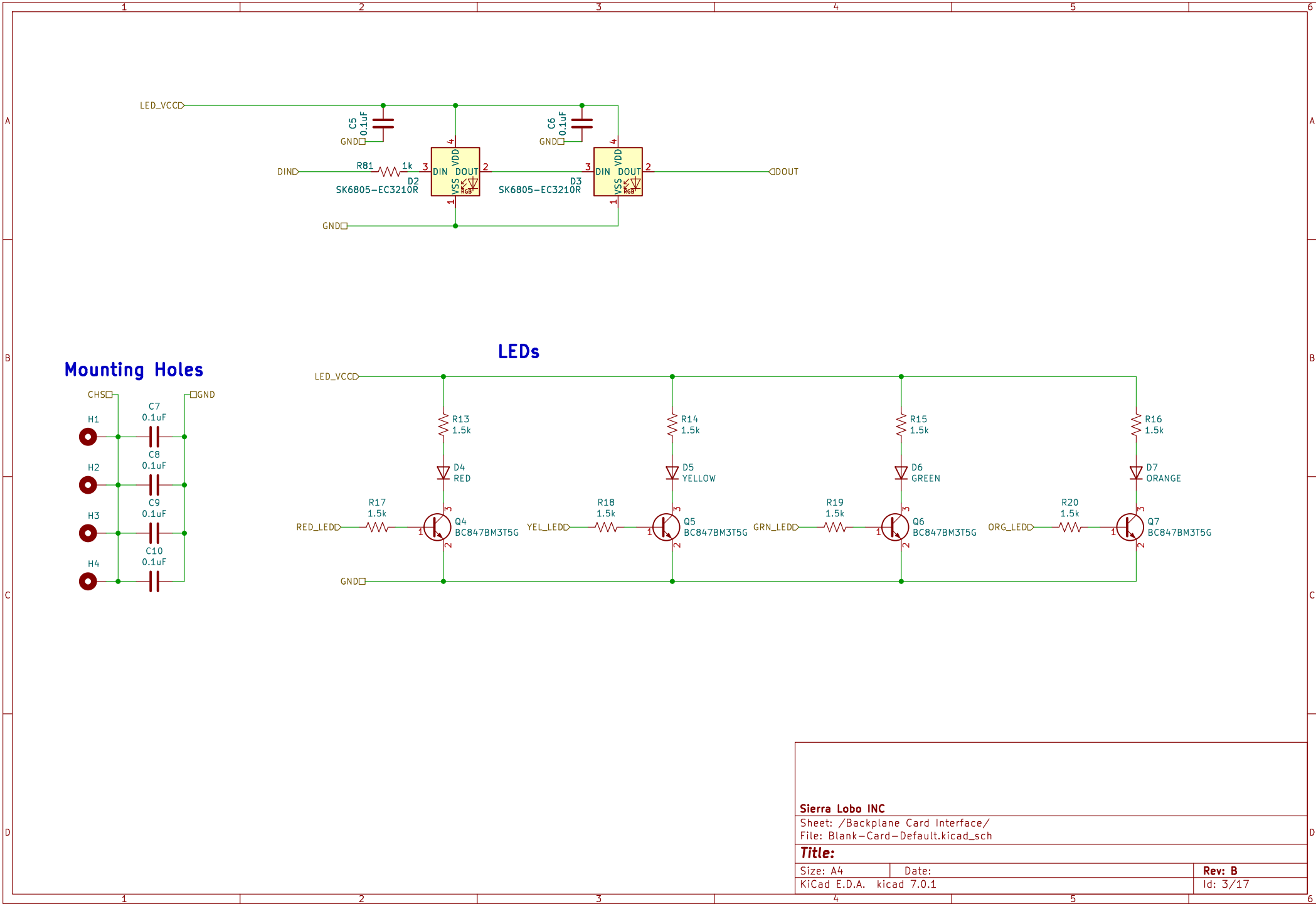
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KiCad E.D.A. kicad 7.0.1

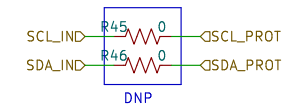
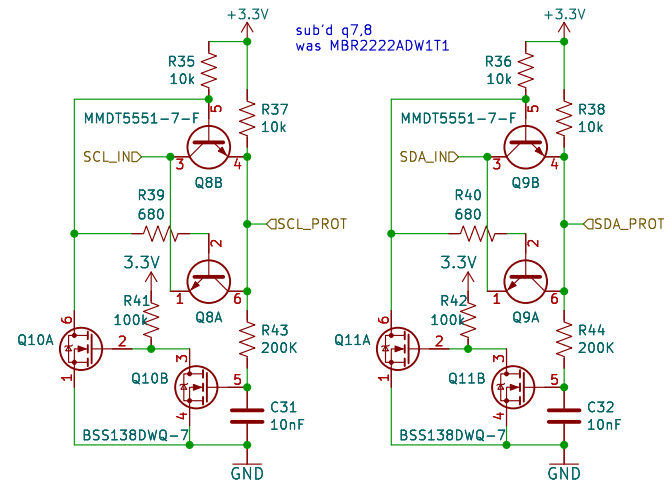
Rev: B

Id: 2/17





I2C Bus Protection PIB



Sierra Lobo INC

Sheet: /I2C-Protection-2/
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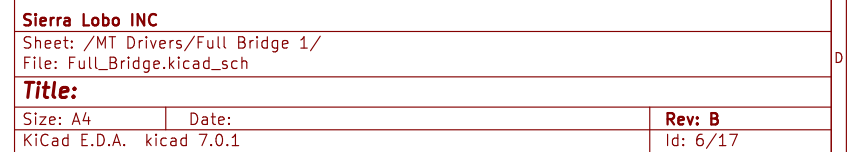
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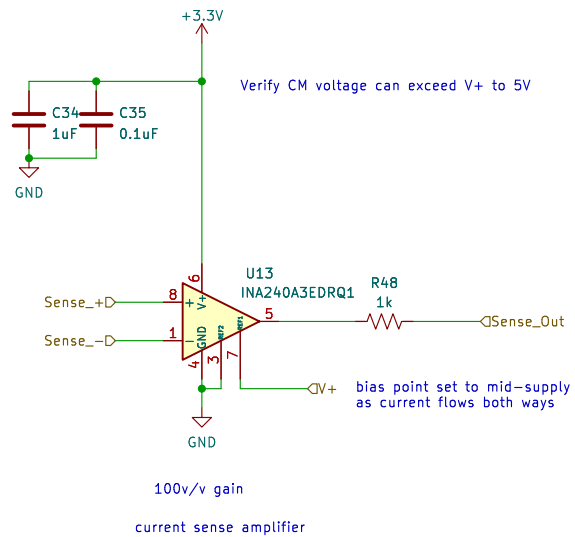
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KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 5/17





Sierra Lobo INC

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File: Sense_Amp.kicad_sch

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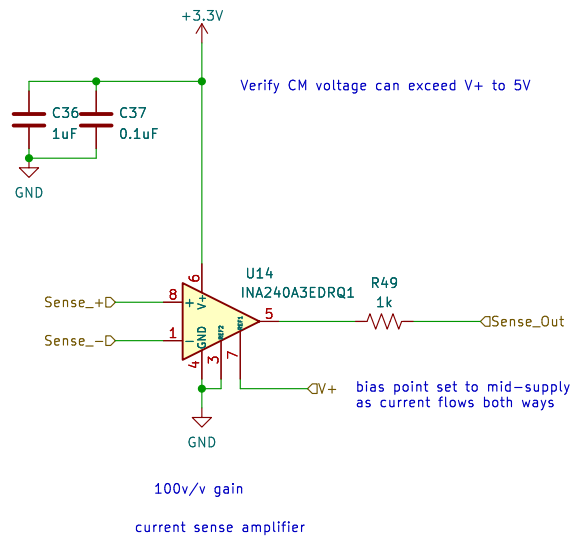
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Date:

KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 7/17



Sierra Lobo INC

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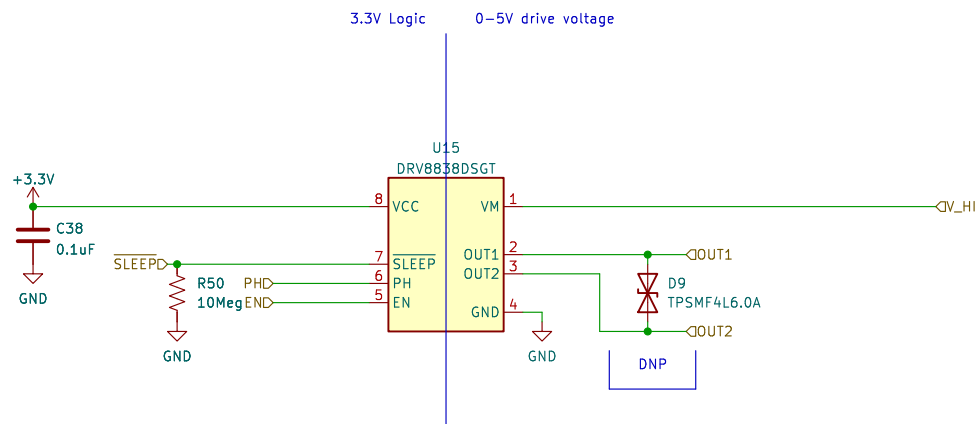
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KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 8/17



Sierra Lobo INC

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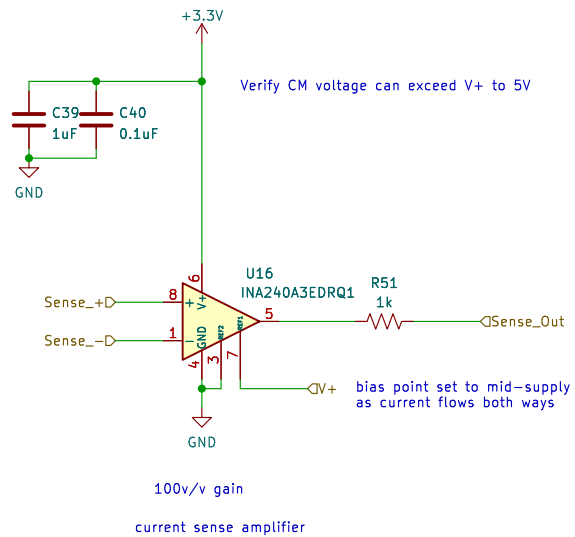
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Date:

KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 9/17



Sierra Lobo INC

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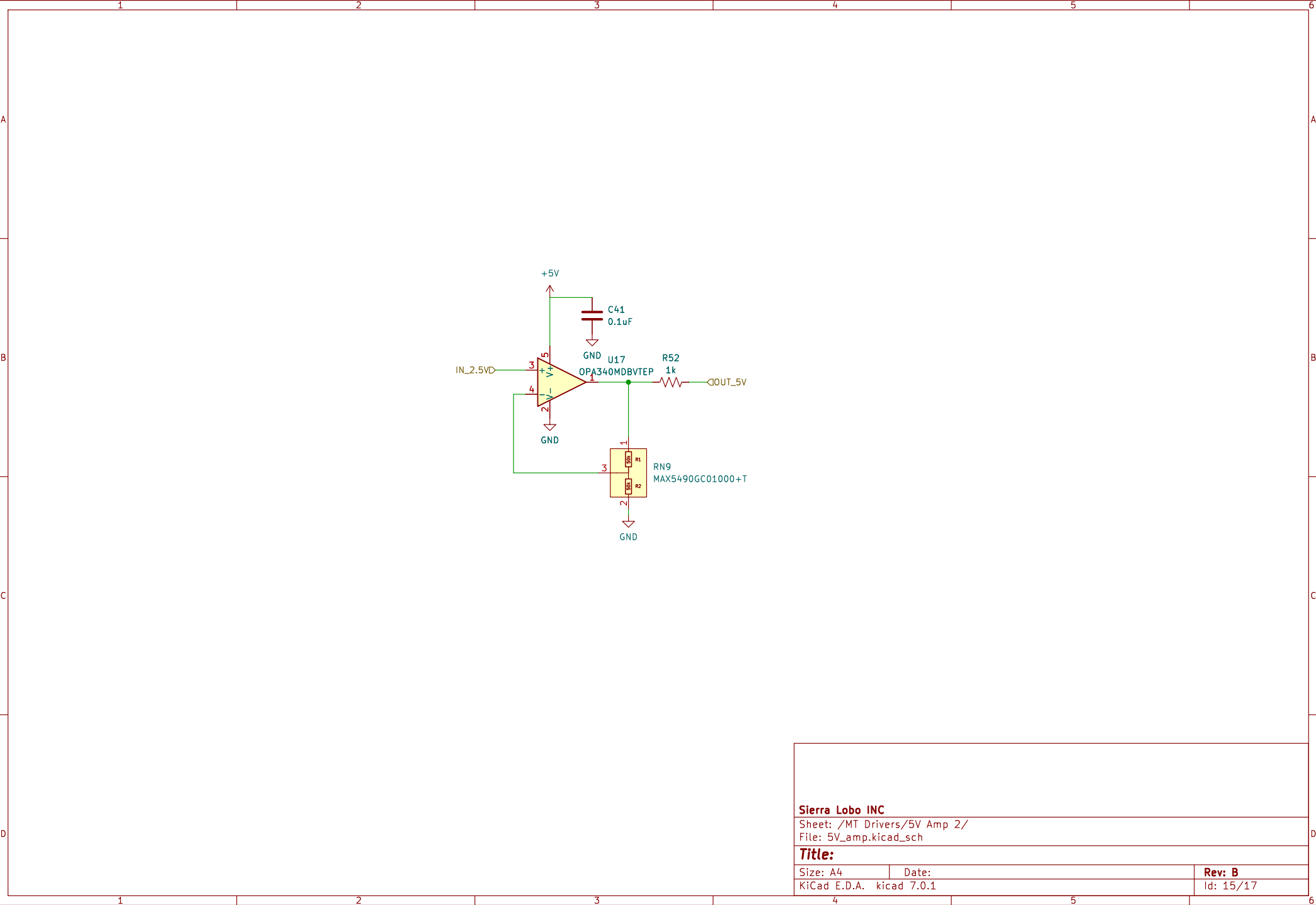
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KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 10/17



Sierra Lobo INC

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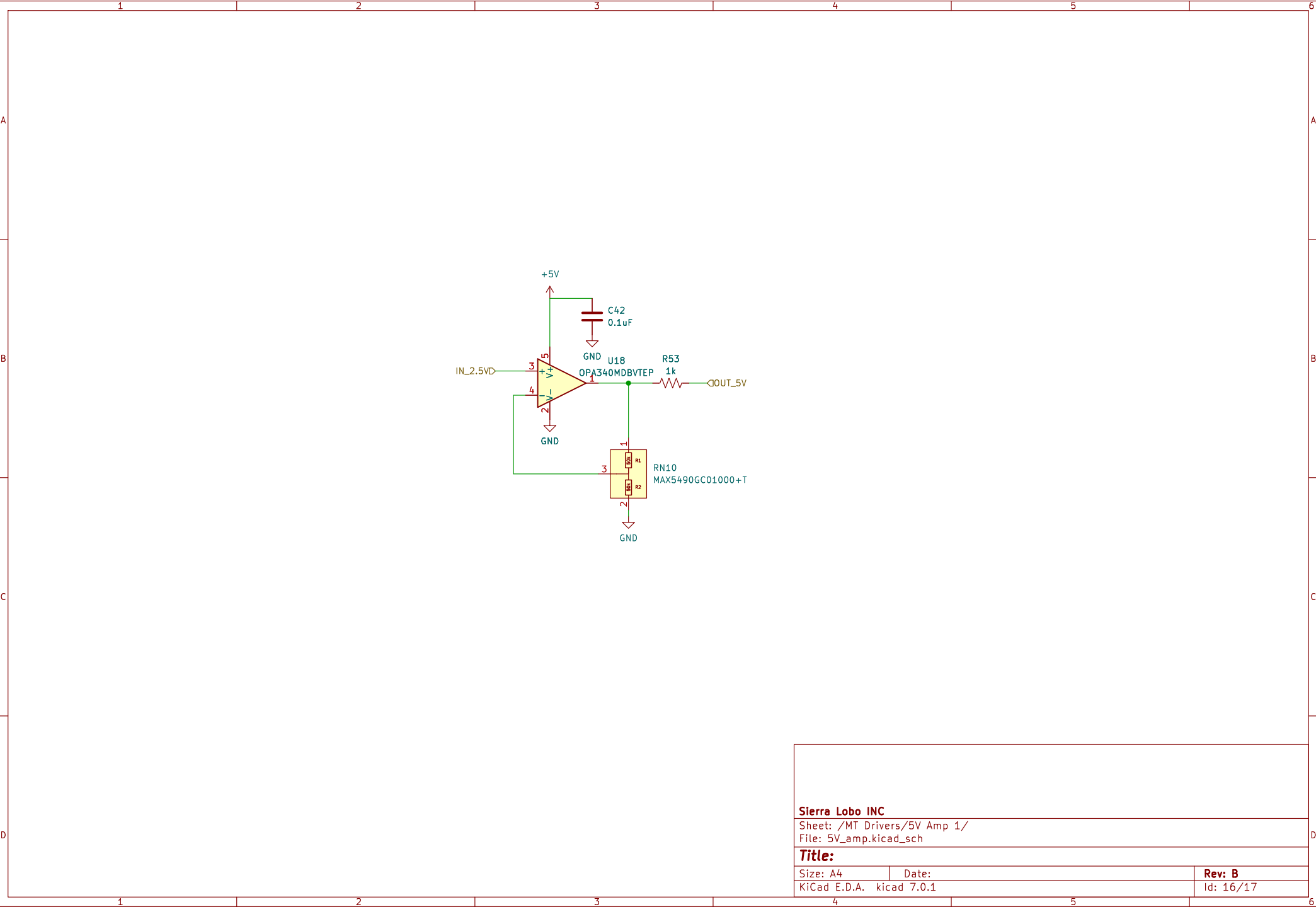
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Date:

KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 15/17



Sierra Lobo INC

Sheet: /MT Drivers/5V Amp 1/
File: 5V_amp.kicad_sch

Title:

Size: A4

Date:

Rev: B

KiCad E.D.A. kicad 7.0.1

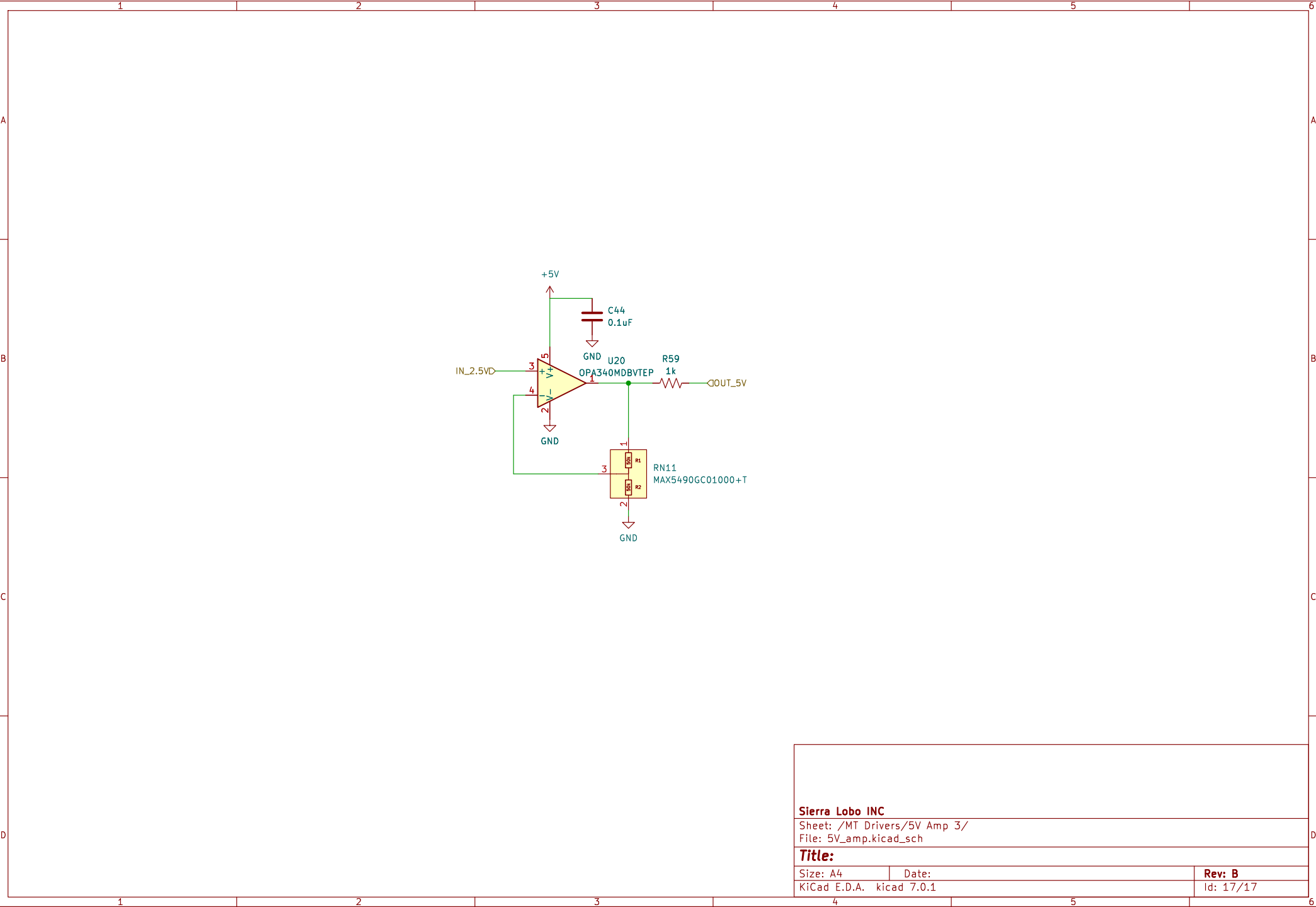
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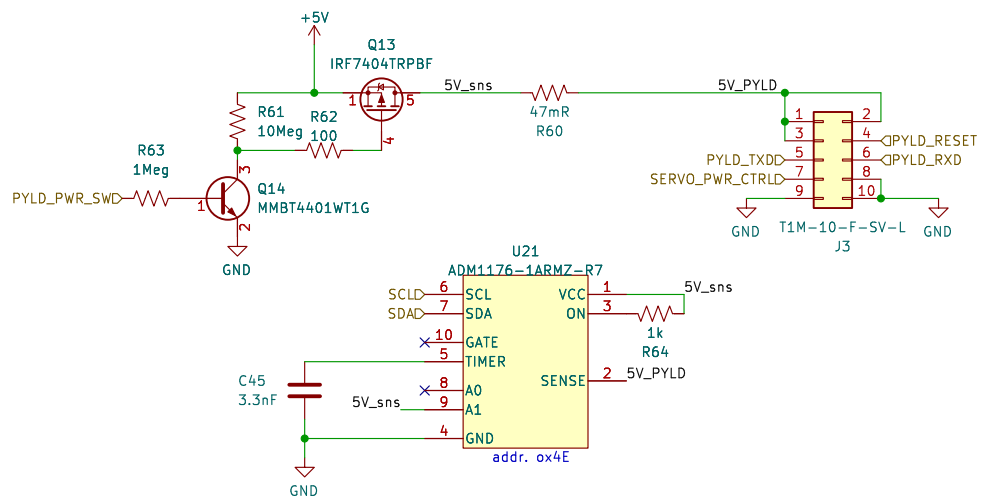


LTC4316 resistor div calculator	
Vcc	3.3
Desired V_XORL1/Vcc	0.34375
Desired V_XORL2/Vcc	0.40625
± tolerance	0.01
Desired Rtotal	1680000
R4	577500
R3	105000
R2	997500
Selected R4	576000
Selected R3	105000
Selected R2	988000
V_XORL1/Vcc Deviation	0.001
V_XORL2/Vcc Deviation	0.002

C	
D	

Rev: B
Id: 16/17





Sheet: /Payload Interface/
File: payload-interface.kicad_sch

Title:

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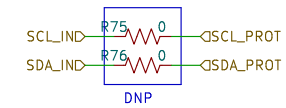
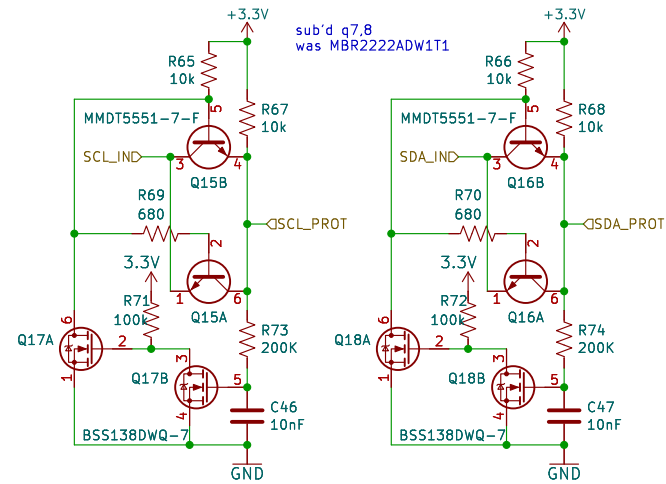
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KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 17/17

I2C Bus Protection PIB



Sierra Lobo INC

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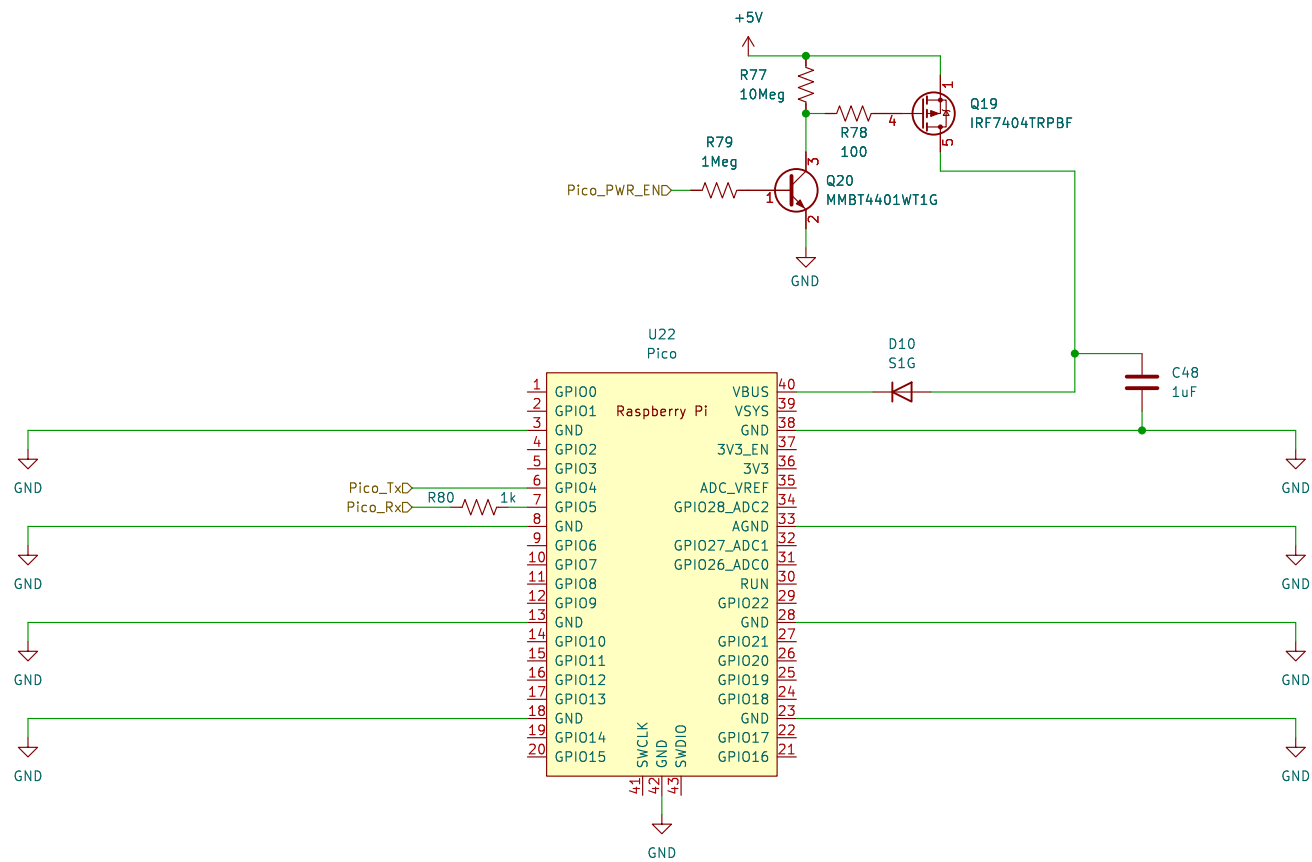
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KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 18/17



Sierra Lobo INC

Sheet: /Pico/
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Title:

Size: A4

Date:

KiCad E.D.A. kicad 7.0.1

Rev: B

Id: 25/17