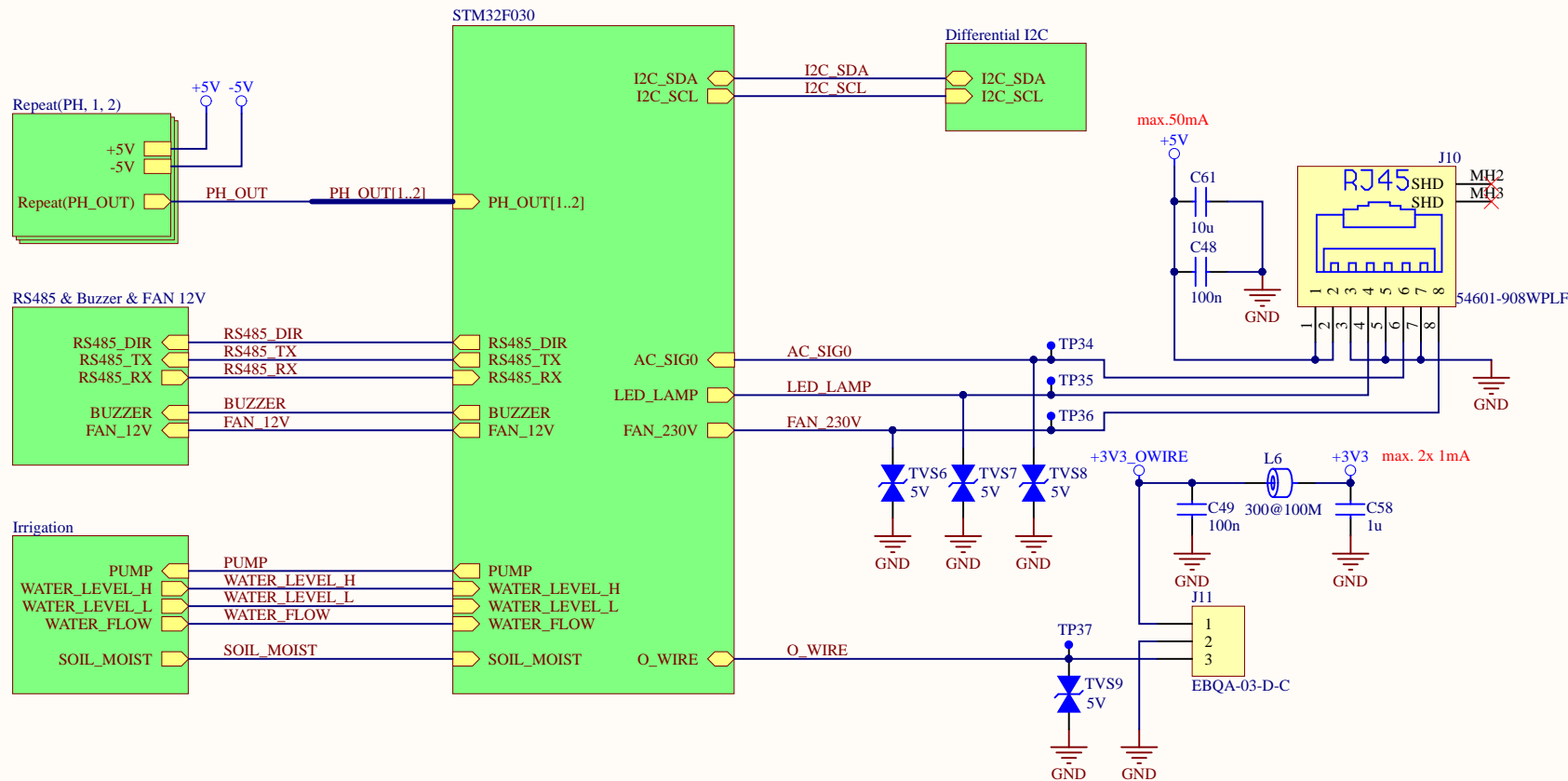
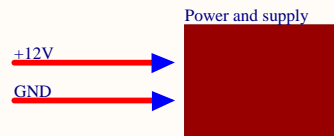


1

2

3

4



Z1

Gainta G706

Z2

Pino-Tech SoilWatch 10

Z3

FS-IR02

Z4

FS-IR02

PROBE1

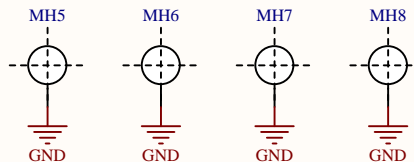
Hydromet ERH-AQ1

PROBE2

Hydromet ERH-13-6

PS1

SGA60E12-P1J



Title: <b>Schemat blokowy</b>		
Size: <b>A4</b>	Number: <b>1</b>	Revision: <b>v3.0</b>
Date: <b>02.02.2019</b>	File: <b>boxer_main.SchDoc</b>	Sheet <b>1</b> of <b>7</b>

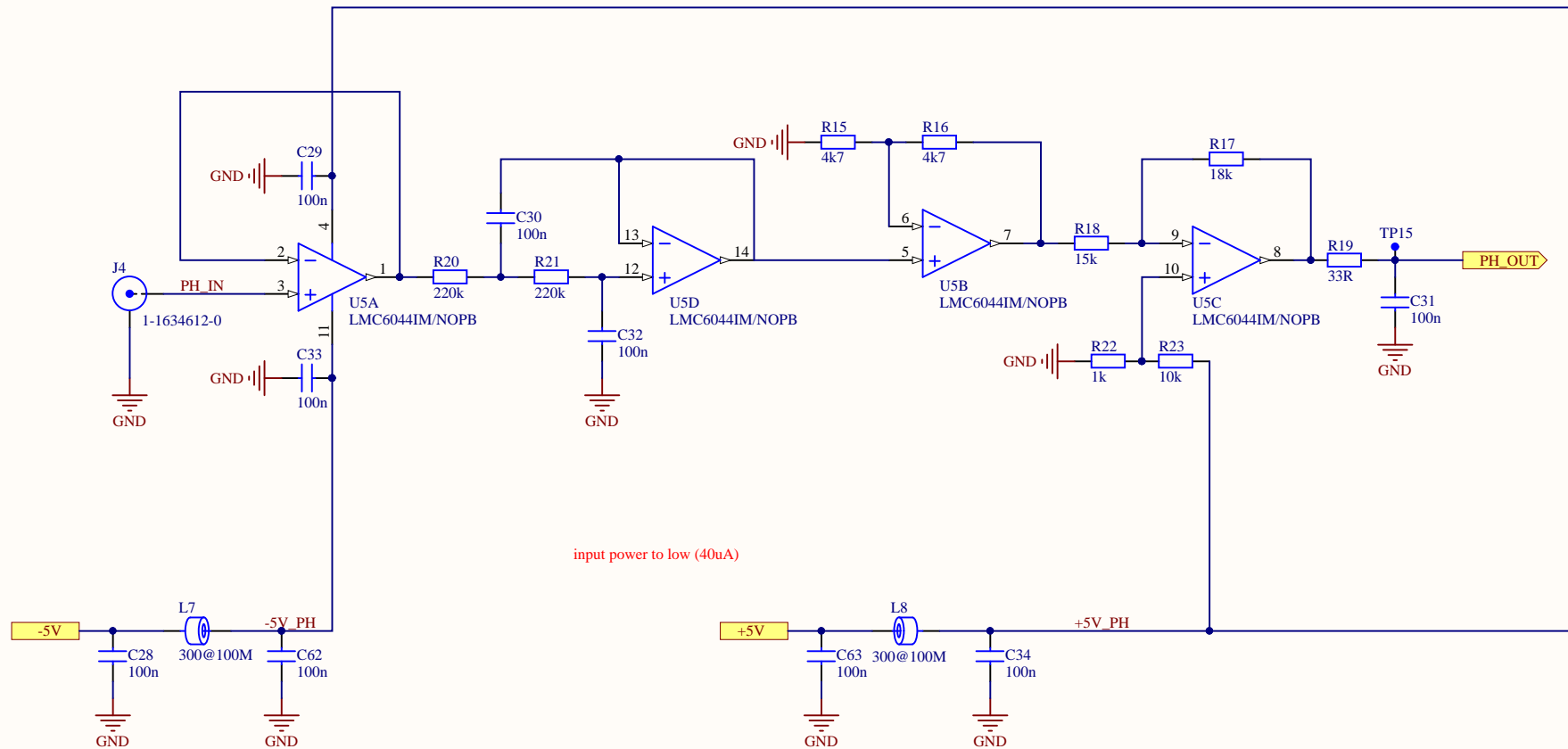
1

2

3

4





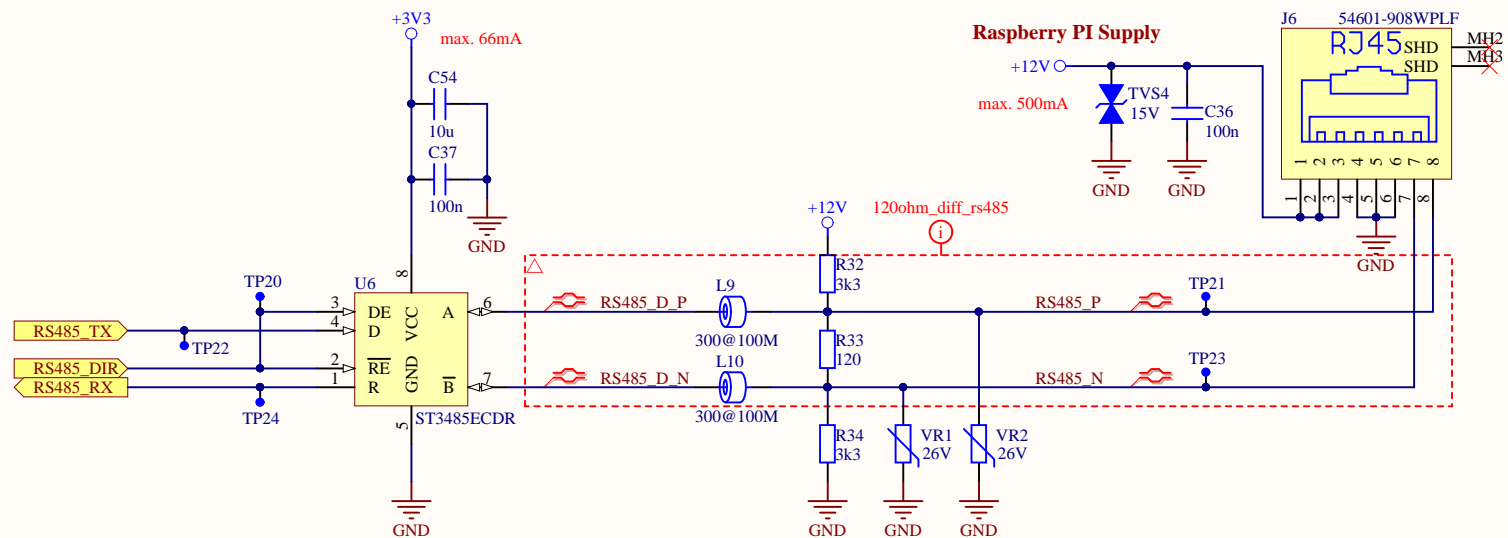
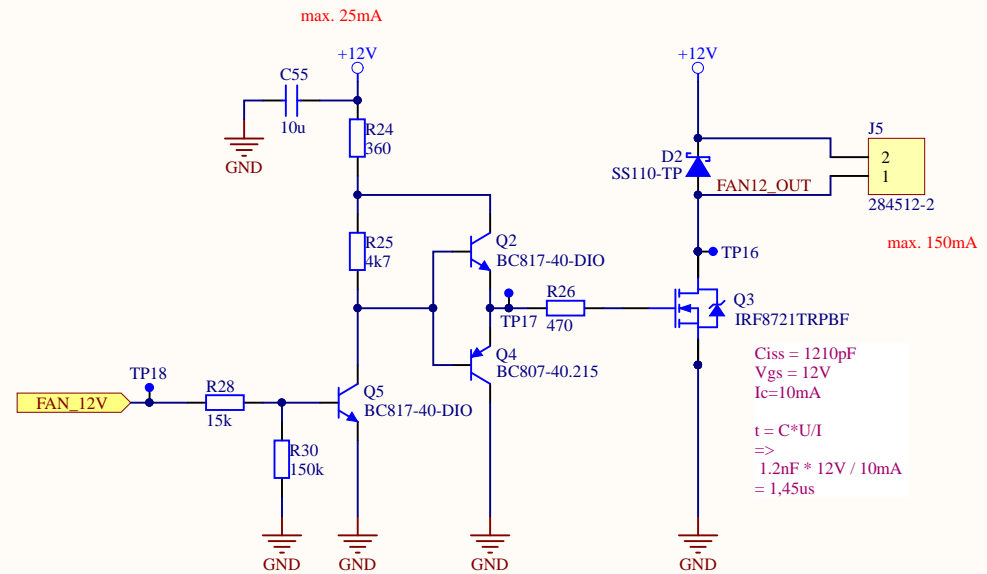
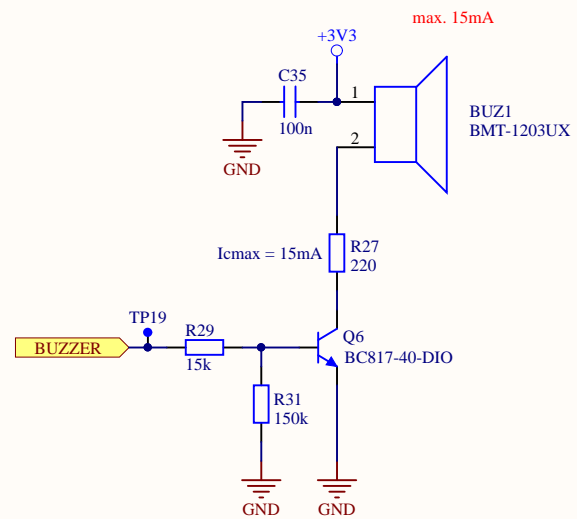
Title: <b>Water and Soil pH meter</b>		
Size: <b>A4</b>	Number: <b>3</b>	Revision: <b>v3.0</b>
Date: <b>02.02.2019</b>	File: <b>boxer_pH.SchDoc</b>	Sheet <b>3</b> of <b>7</b>

1

2

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4

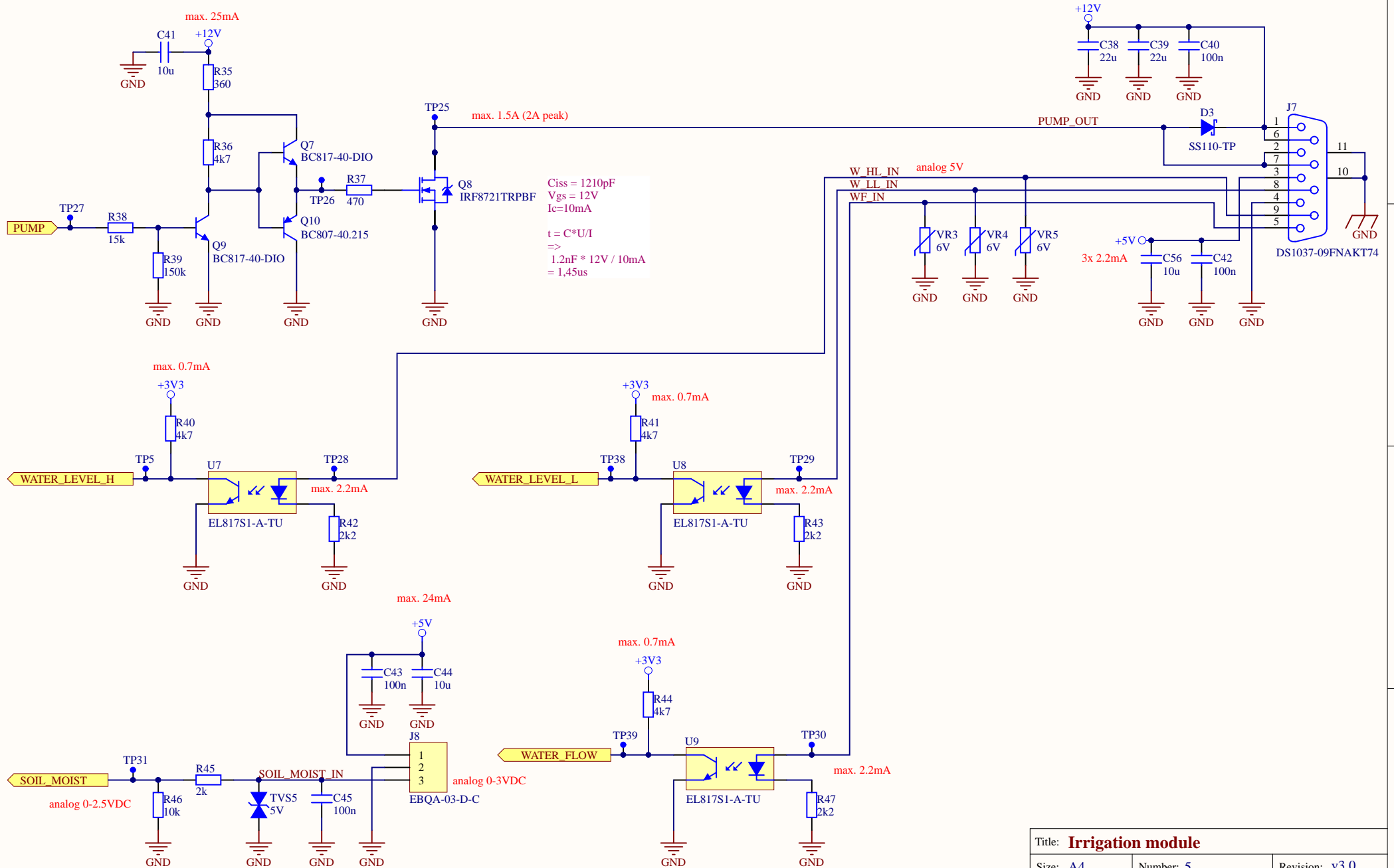
Title: **RS485, Buzzer, 12V FAN**Size: **A4**Number: **4**Revision: **v3.0**Date: **02.02.2019**File: **boxer\_analog.SchDoc**Sheet **4** of **7**

1

2

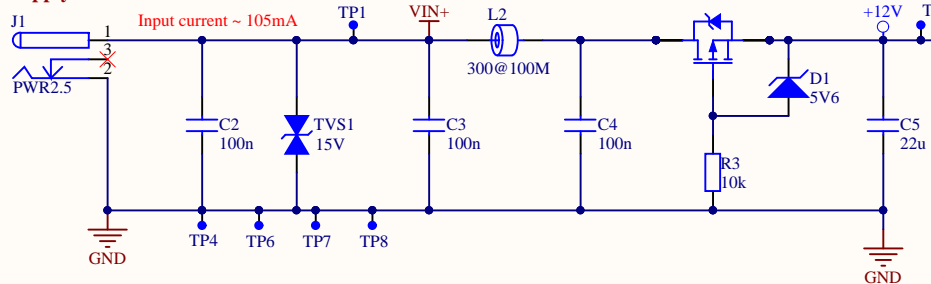
3

4



Title: <b>Irrigation module</b>		
Size: <b>A4</b>	Number: <b>5</b>	Revision: <b>v3.0</b>
Date: <b>02.02.2019</b>	File: <b>boxer_irrigation.SchDocSheet 5 of 7</b>	

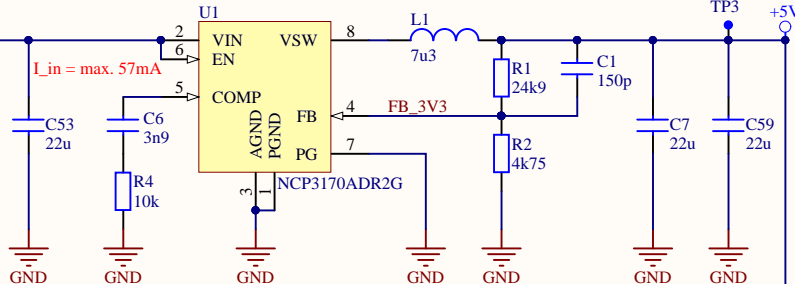
# **Main Supply 12VDC**



$I_q = 1.7\text{mA}$

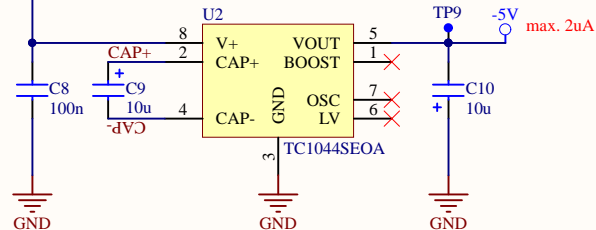
$I_{rms} = 3\text{A}$   $I_{sat} > I_{rms}$   $I_{peak} = 3.5\text{A}$

max. 100mA



$I_{in} = \text{max. } 57\text{mA}$

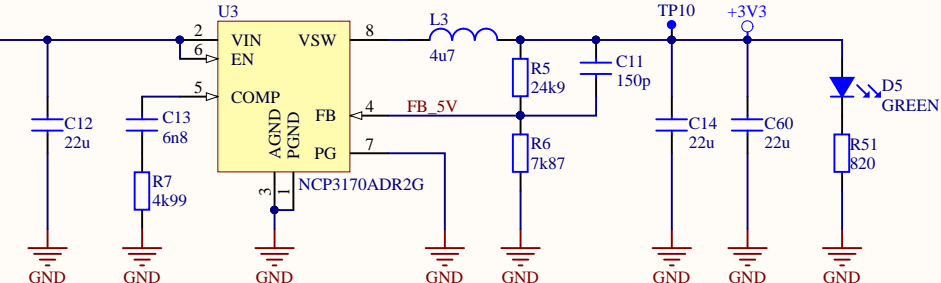
max. 2uA



$I_{in} = \text{max. } 48\text{mA}$

$I_q = 1.7\text{mA}$

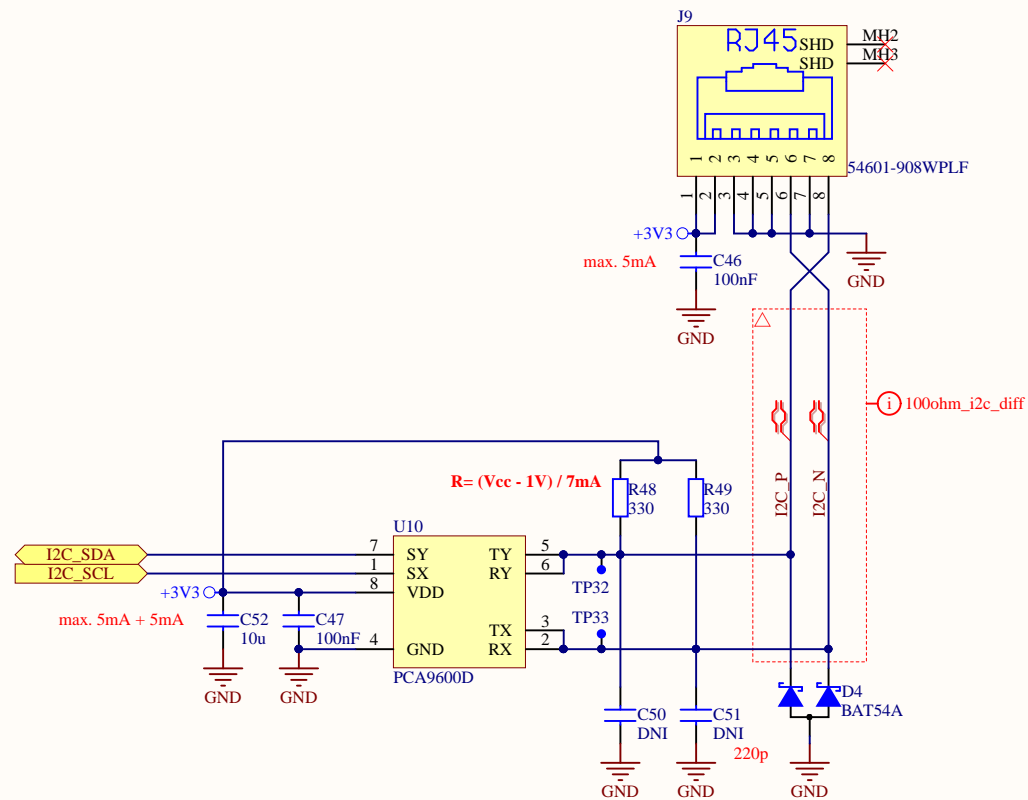
max. 127mA



Title: **Power and Supply (+5V, -5V, +3.3V)**

Size: **A4** Number: **6** Revision: **v3.0**

Date: **02.02.2019** File: **boxer\_supply.SchDoc** Sheet **6** of **7**



Title: <b>Differential I2C</b>		
Size: <b>A4</b>	Number: <b>5</b>	Revision: <b>v3.0</b>
Date: <b>02.02.2019</b>	File: <b>boxer_I2C_diff.SchDoc</b> Sheet <b>7</b> of <b>7</b>	