

DSP

Connectors

Solar_Panel_Voltage
Accumulator_Voltage
VOUT+
VOUT-

Solar_Panel_Voltage
Accumulator_Voltage
VOUT+
VOUT-

Temp_B1
Temp_B2
Temp_INV1
Temp_INV2
Temp_INV3
Temp_INV4
ADC_SOLAR
ADC_ACCU
ADC_INV_OUT

Temp_B1
Temp_B2
Temp_INV1
Temp_INV2
Temp_INV3
Temp_INV4
ADC_SOLAR
ADC_ACCU
ADC_INV_OUT

TZ1
TZ2
Boost_Current
Inverter_Current

TZ1
TZ2
Boost_Current
Inverter_Current_1

USBDP
USBDM

USBDP
USBDM

SCIRX
SCITX

SCIRX
SCITX

Current Measurement

TZ1
TZ2
Boost_Current
Inverter_Current_1

Hall_sensor.SchDoc

USB

USBDP
USBDM

SCIRX
SCITX

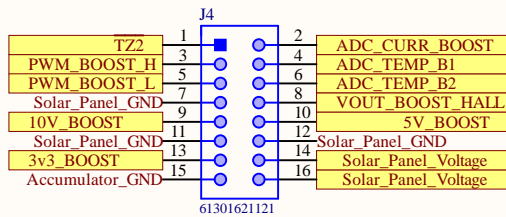
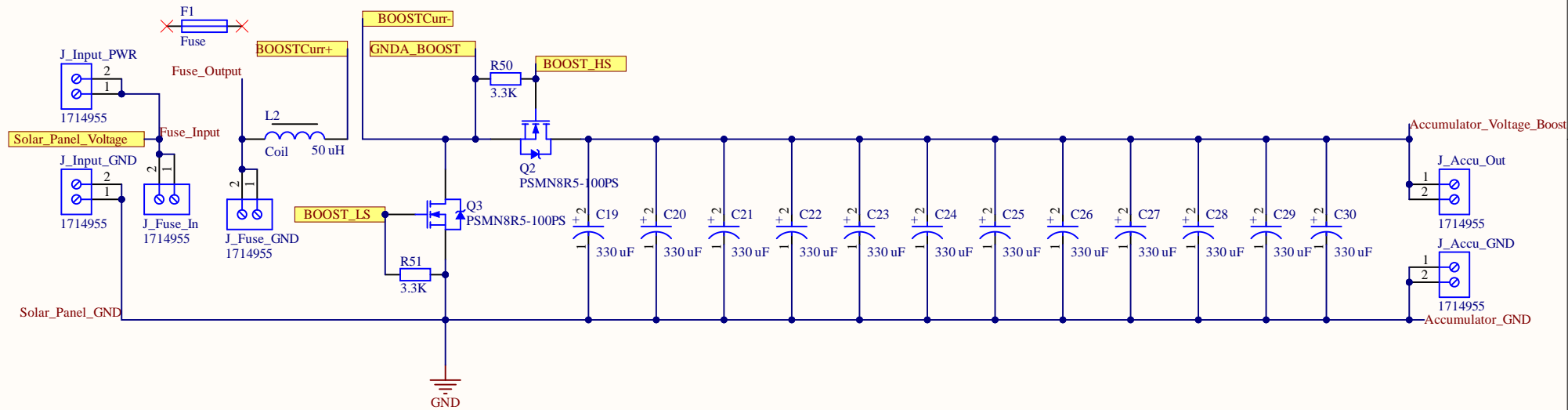
USB_and_FTDI.SchDoc

DSP.SchDoc

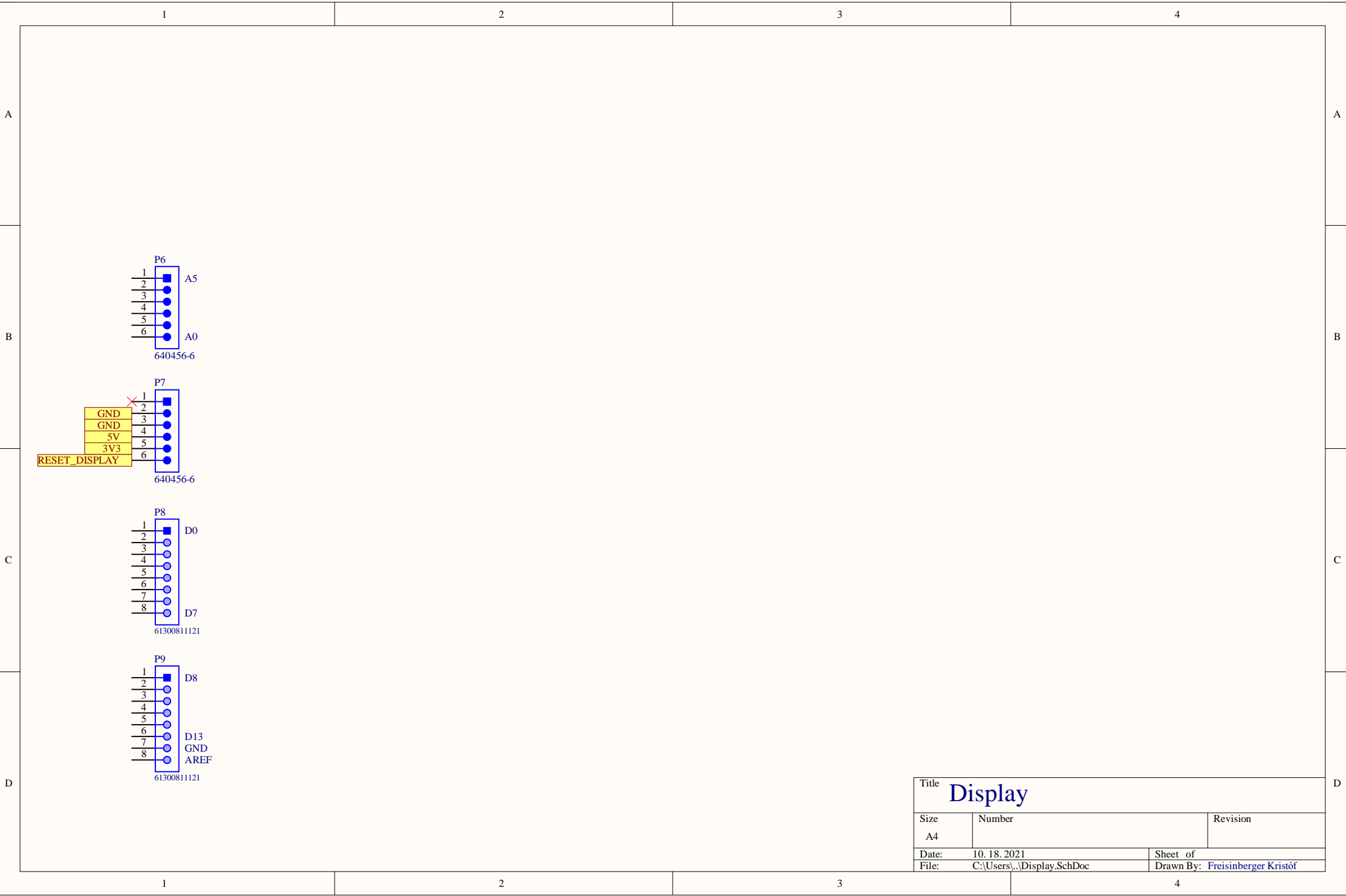
Connectors.SchDoc

Title			
Block Design			
Size	Number		Revision
A4			
Date:	10. 18. 2021	Sheet of	
File:	C:\Users\...\Block_Design.SchDoc	Drawn By: Freisinberger Kristóf	

Boost Converter

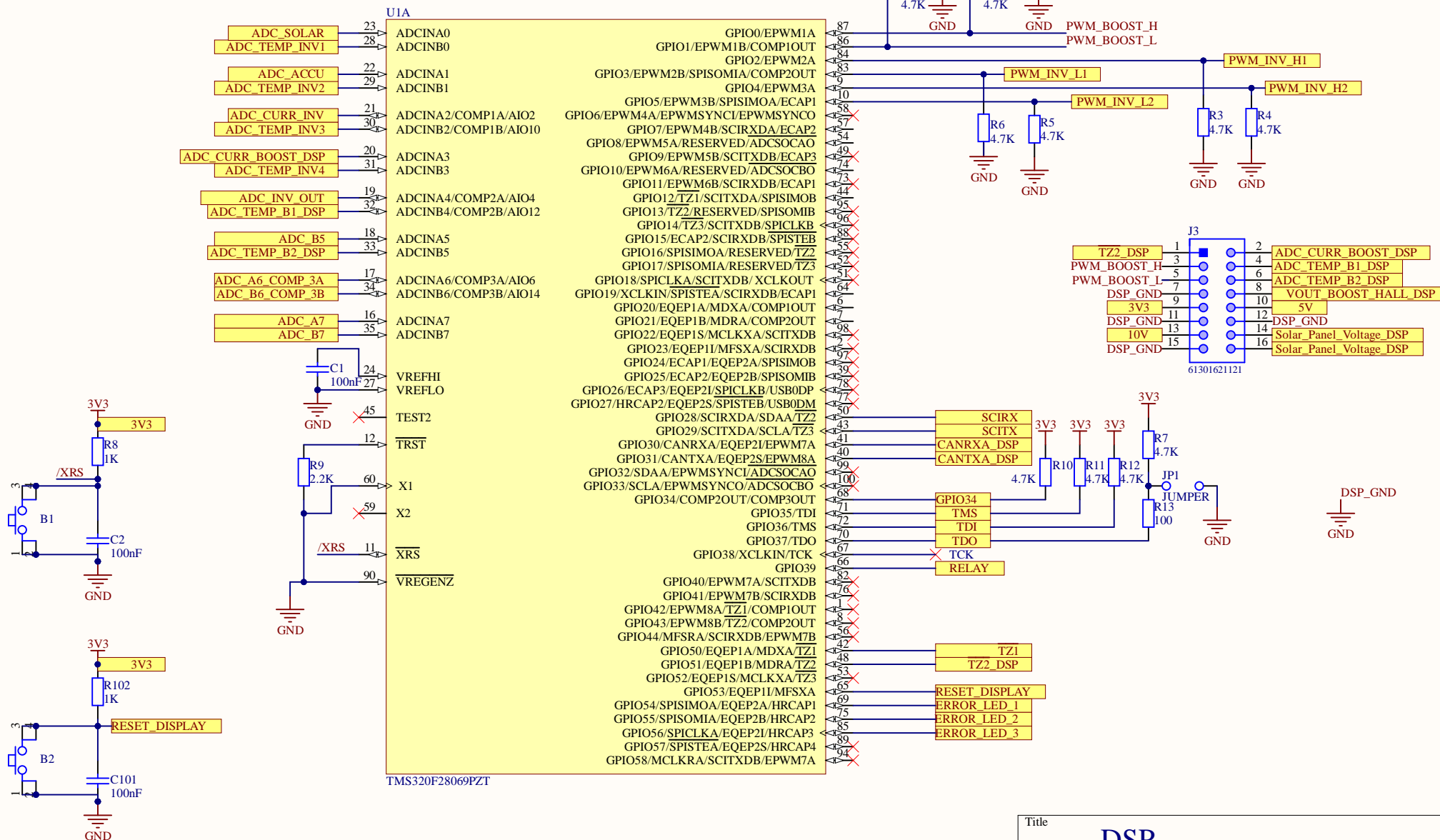


Title Boost Converter		
Size A4	Number	Revision
Date: 10. 18. 2021	Sheet of	
File: C:\Users\...BoostConverter.SchDoc	Drawn By: Freisinberger Kristóf	



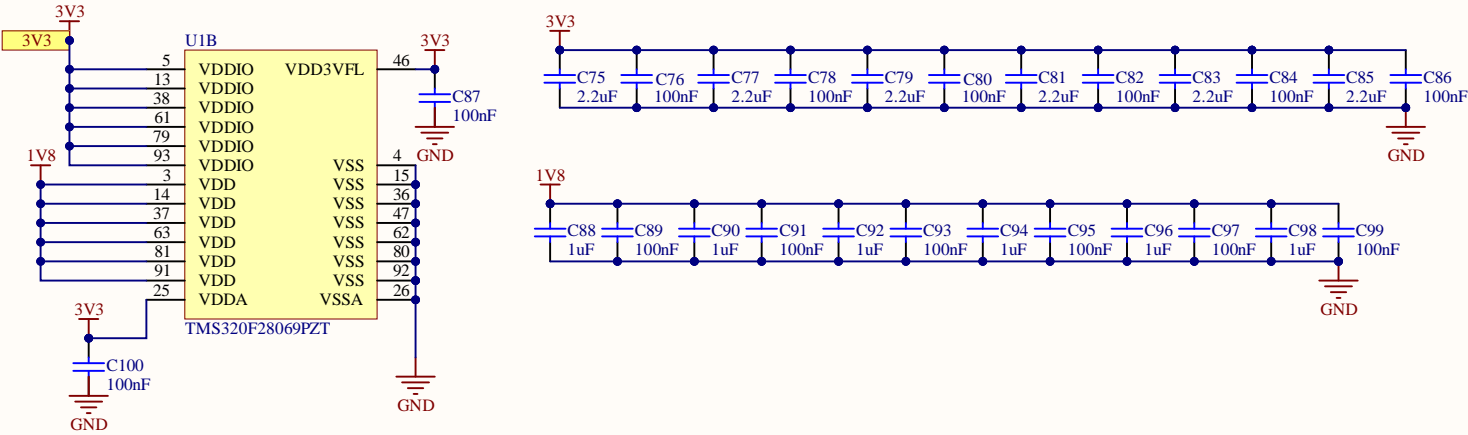
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Size	Number		Revision
A4			
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File:	C:\Users\...\Display.SchDoc	Drawn By:	Freisinberger Kristóf

DSP



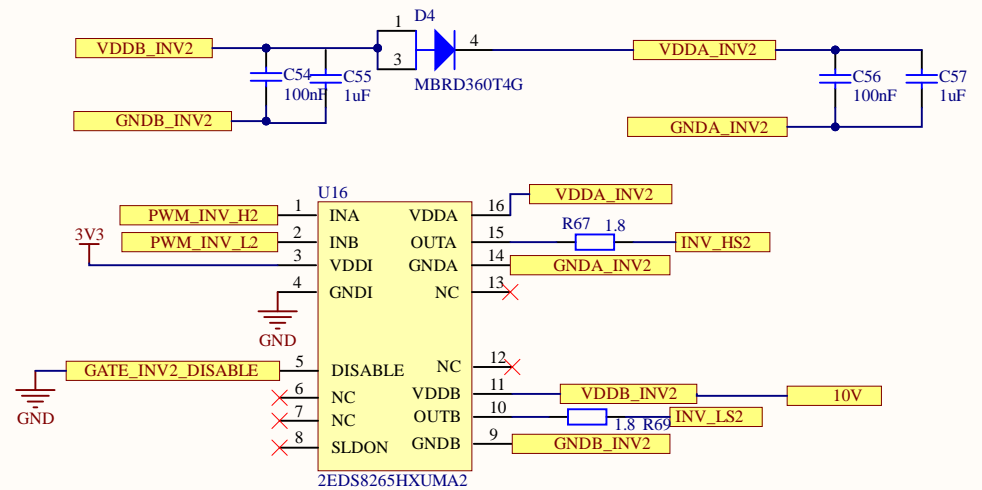
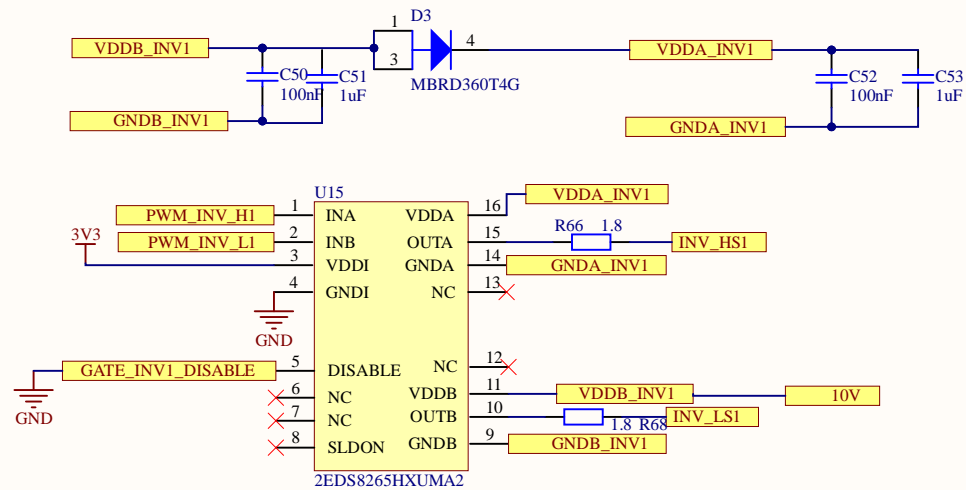
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DSP		
Size	Number	Revision
A4		
Date:	10. 18. 2021	Sheet of
File:	C:\Users\...\DSP.SchDoc	Drawn By: Freisinberger Kristóf

DSP Supply Pins

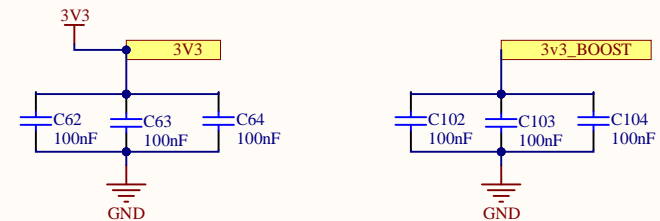
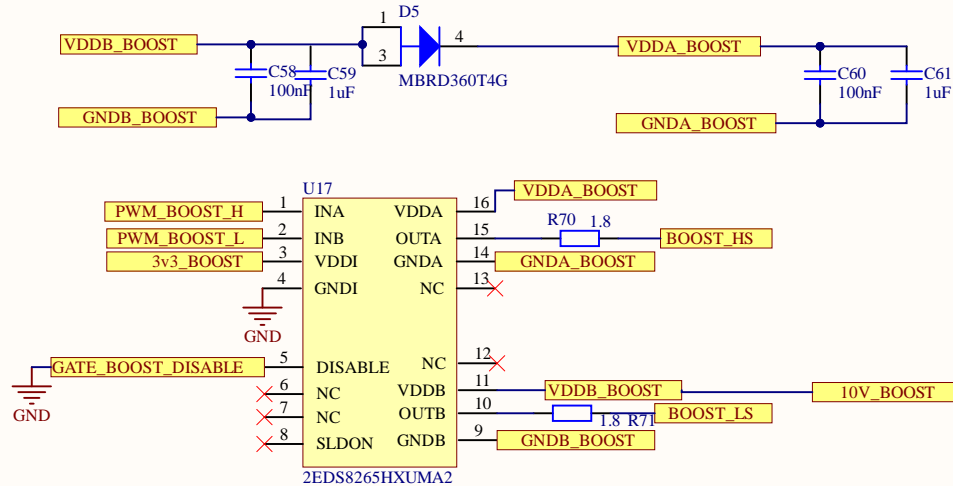


Title		
DSP Supply		
Size	Number	Revision
A4		
Date:	10. 18. 2021	Sheet of
File:	C:\Users\...\DSP_Supply.SchDoc	Drawn By: Freisinberger Kristóf

Inverter Gate Driver



Boost Gate Driver

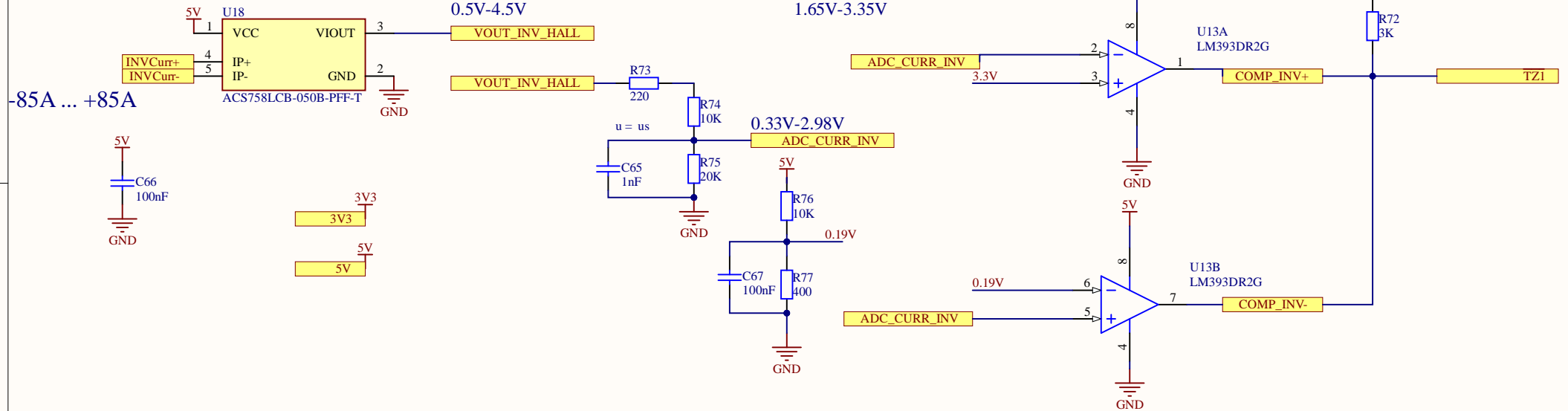


Title		
Gate Driver		
Size	Number	Revision
A4		
Date:	10. 18. 2021	Sheet of
File:	C:\Users\...\Gate-Driver.SchDoc	Drawn By: Freisinberger Kristóf

Inverter Current

50A
 $(2.5V - 50 \times 0.04) \dots (2.5V + 50 \times 0.04)$
 0.5V-4.5V

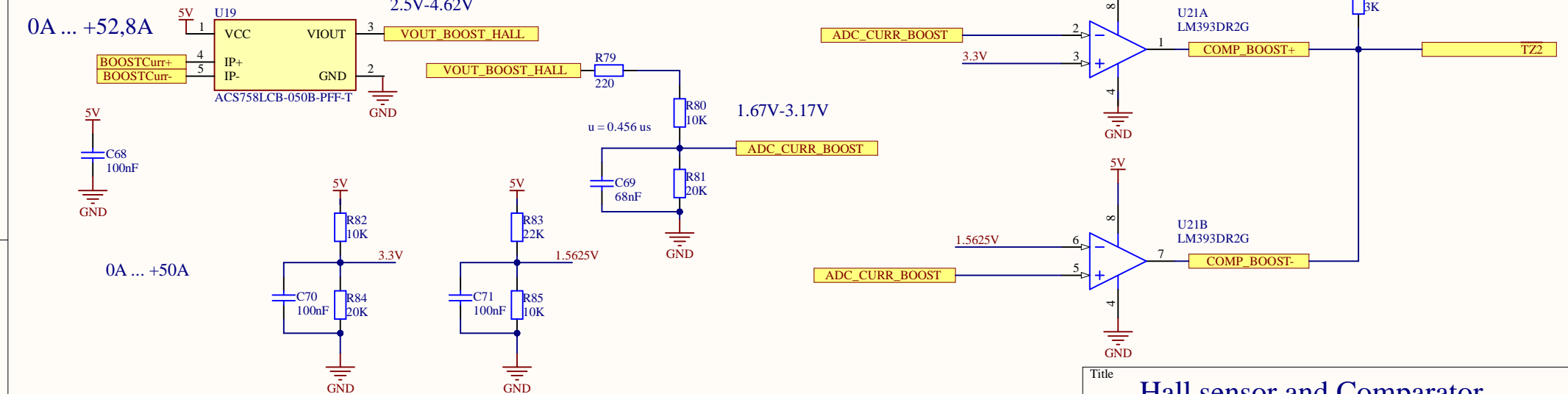
200A
 $(2.5V - 85 \times 0.01) \dots (2.5V + 85 \times 0.01)$
 1.65V-3.35V



Boost converter Current

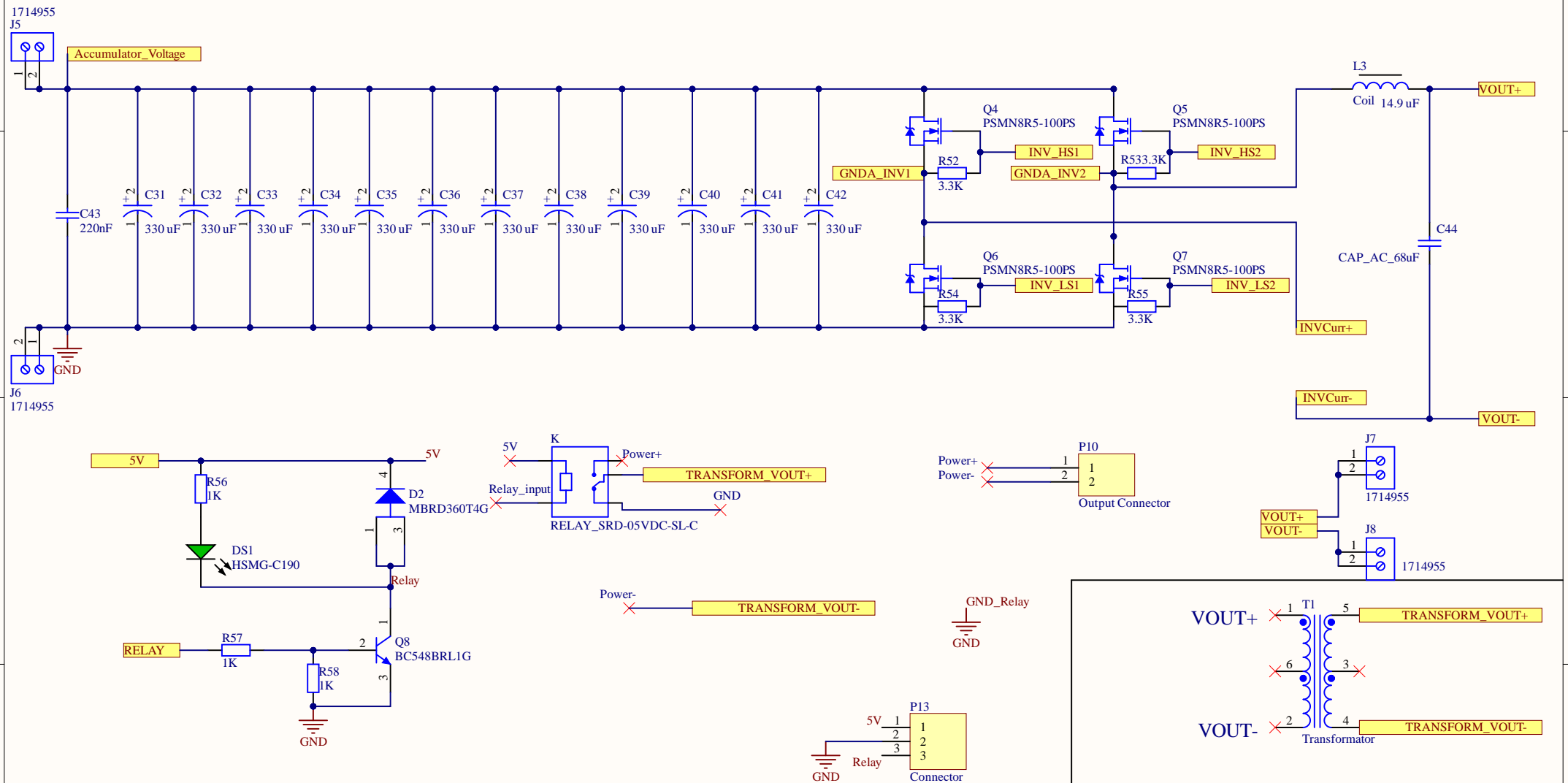
(2.5V) ... (2.5V+53*0.04)
2.5V-4.62V

0A ... +52,8A



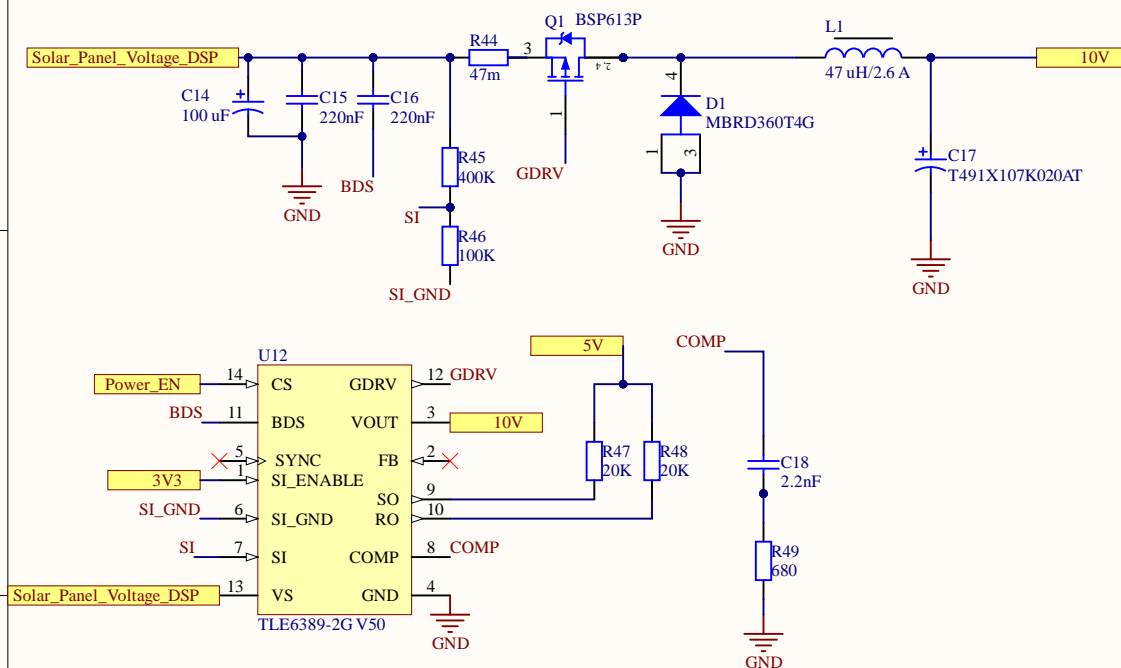
Title			Hall sensor and Comparator		
Size	Number				
A4					
Date:	10. 18. 2021		Sheet of		
File:	C:\Users\...Hall_sensor.SchDoc		Drawn By: <u>Freisinberger Kristóf</u>		

Inverter



Title Inverter		
Size A4	Number	Revision
Date: 10. 18. 2021	Sheet of	
File: C:\Users\...\Inverter.SchDoc	Drawn By: Freisinberger Kristóf	

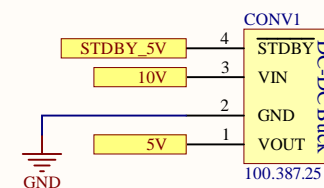
24-32V to 10V



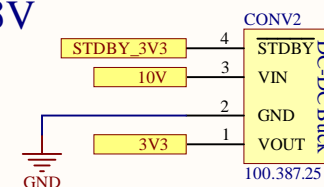
ON



10V to 5V

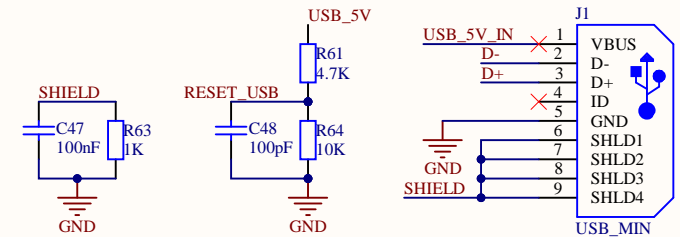
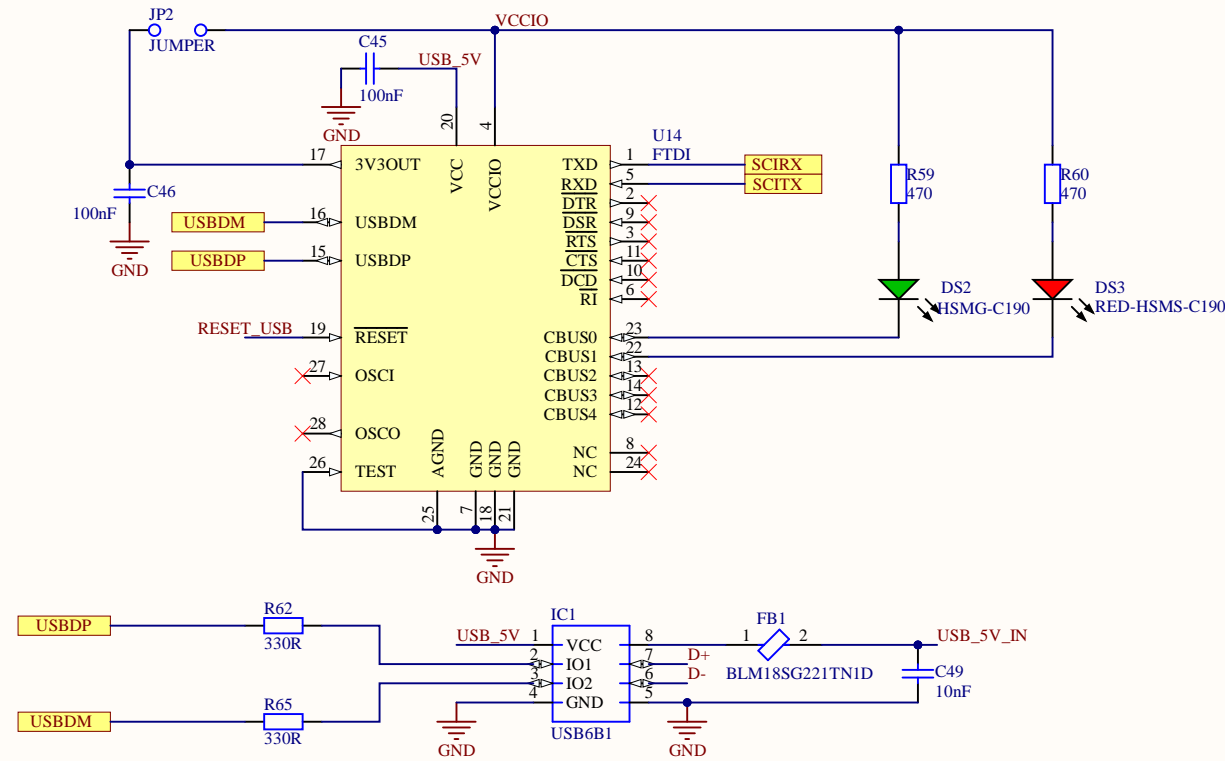


10V to 3,3V



Title		
Power Supply		
Size	Number	Revision
A4		
Date:	10. 18. 2021	Sheet of
File:	C:\Users\...\PowerSupply.SchDoc	Drawn By: Freisinberger Kristóf

USB-UART Communication



Title USB_FTDI		
Size A4	Number	Revision
Date: 10. 18. 2021	Sheet of	
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Board Stack Report