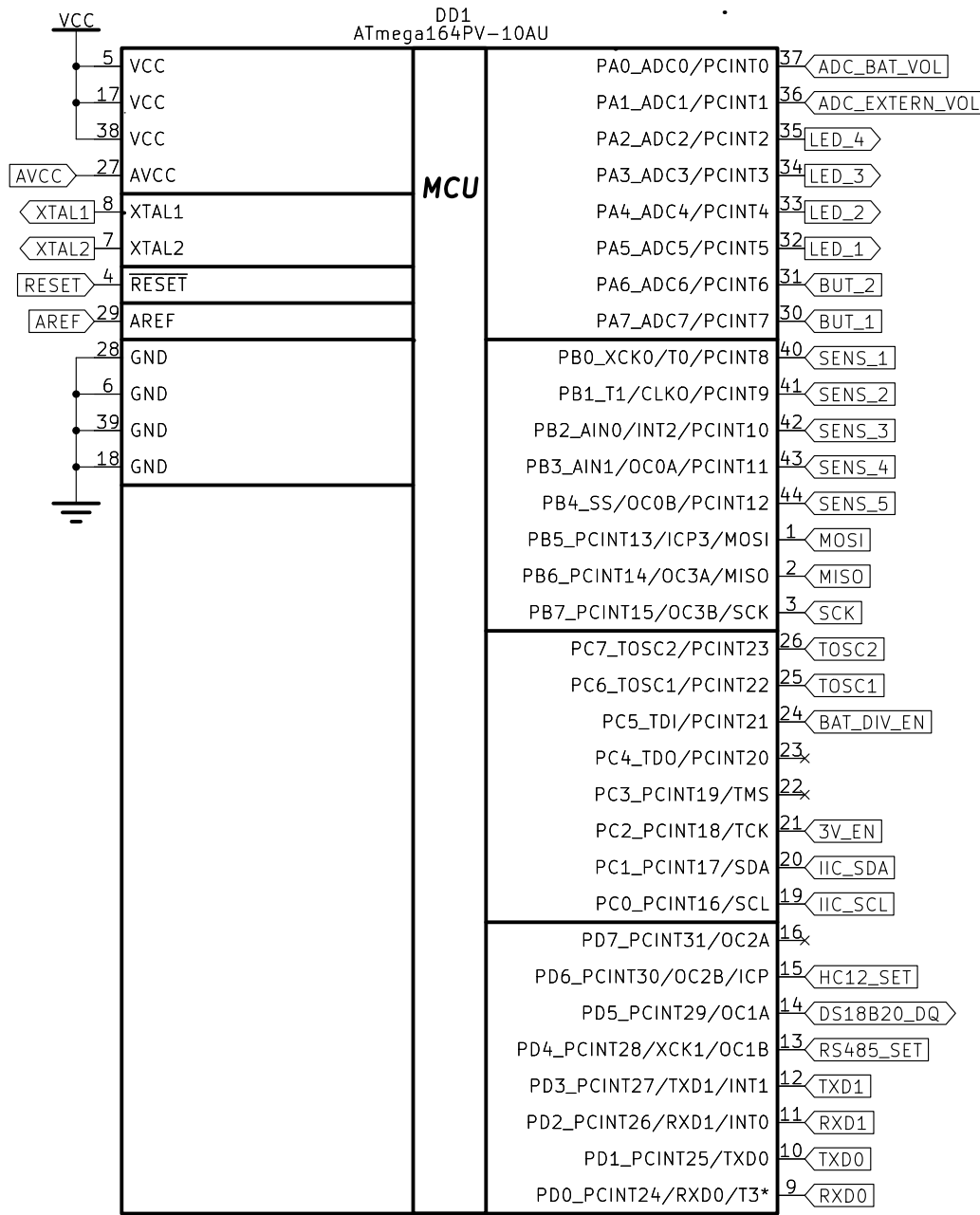
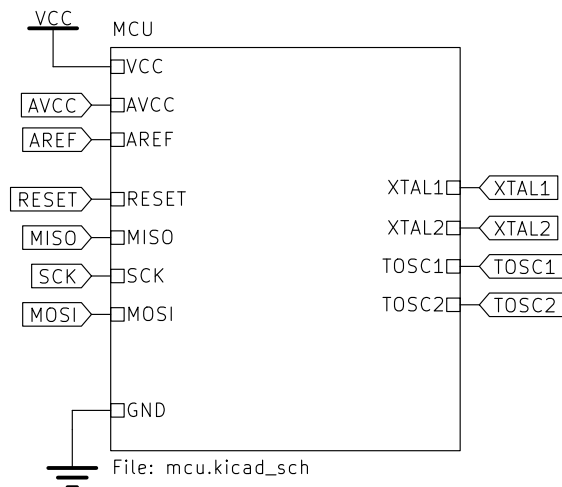


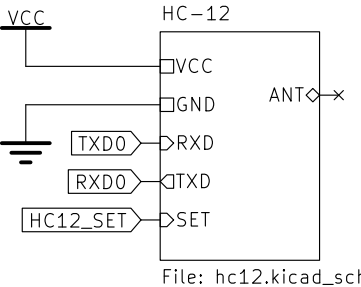
MCU



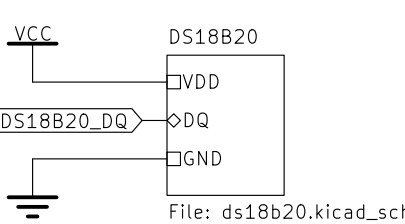
MCU Components



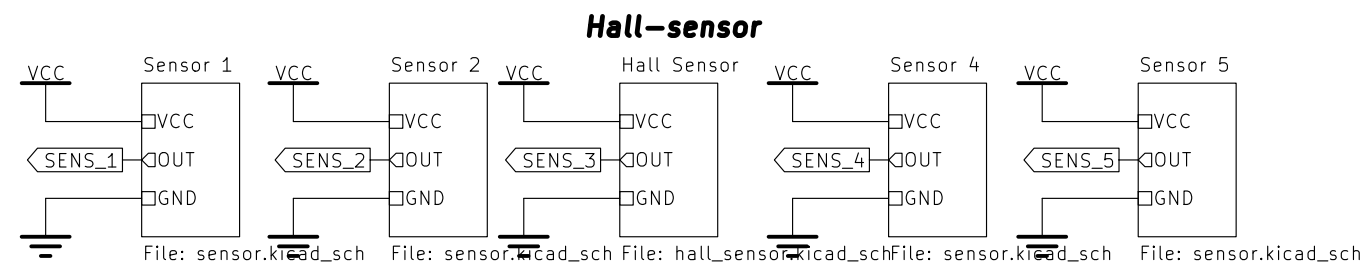
RF Module



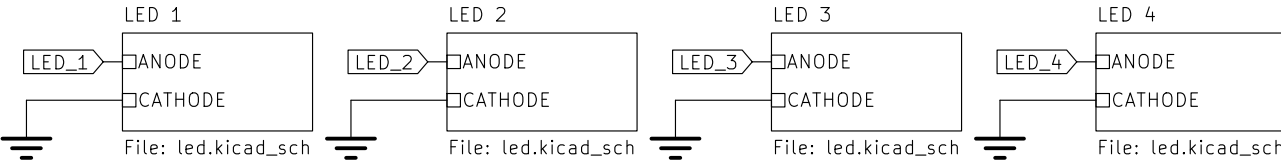
Temperature Sensor



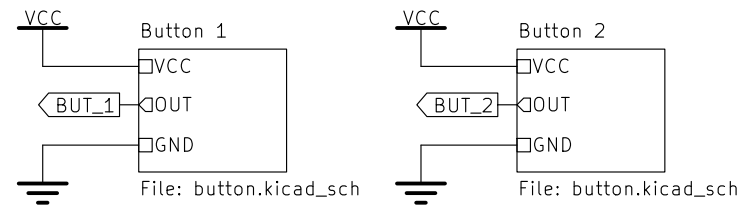
Sensors



Indicators

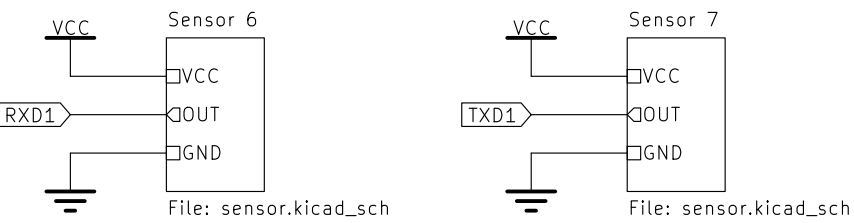


Buttons

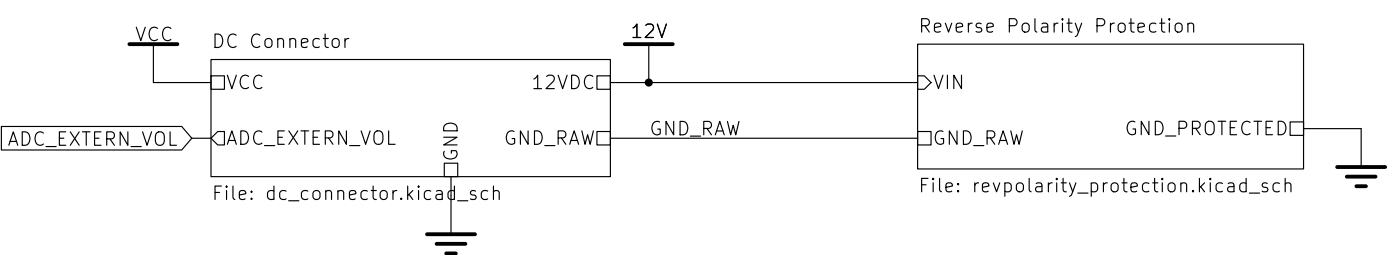


Additional Feature

Hall Sensor 1 Hall Sensor 2

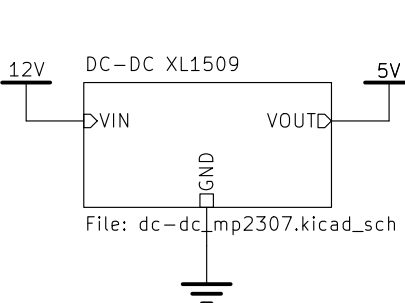


External Voltage Input

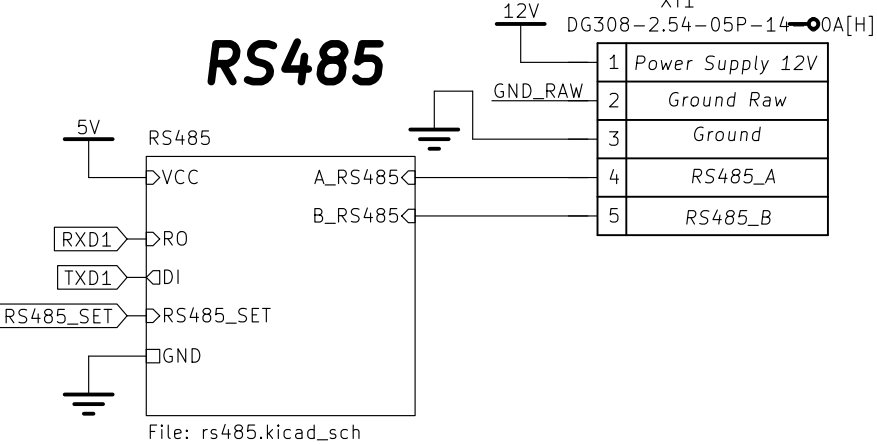


Reverse Polarity Protection

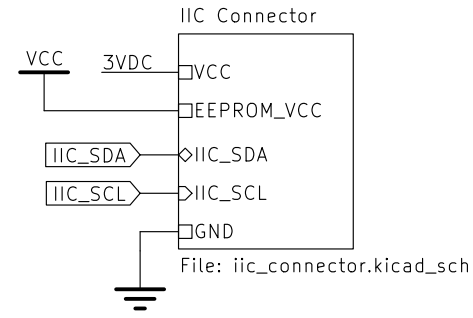
DC-DC 5V



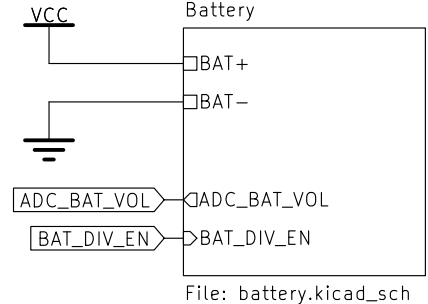
External Voltage Connector



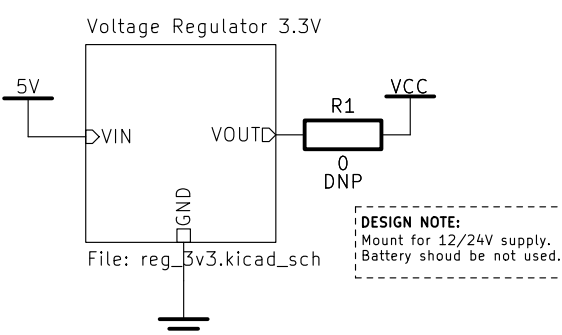
IIC Sensors and EEPROM



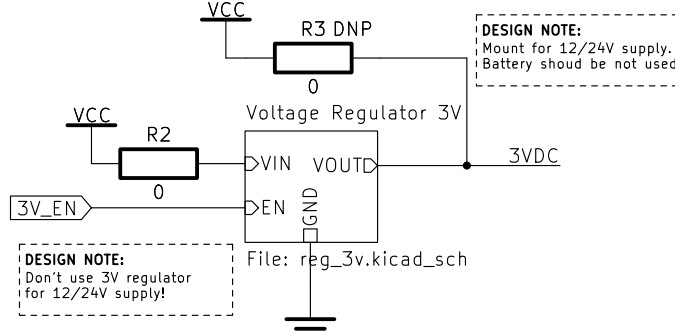
Battery



Voltage Regulator 3.3V



Voltage Regulator 3.0V



Testpoints Mounting Holes



Responsible dept.	Technical reference	Document type	Document status
	Created by	Electrical Circuit	
	Approved by	Title, Supplementary title	
		Remote Sensor	Rev. Date of issue Lang. Sheet
			2022-09-16 1/27

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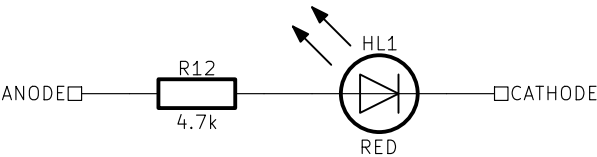
A

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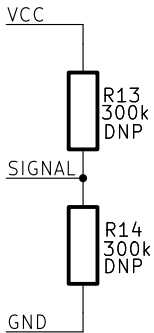
Indicator Diode



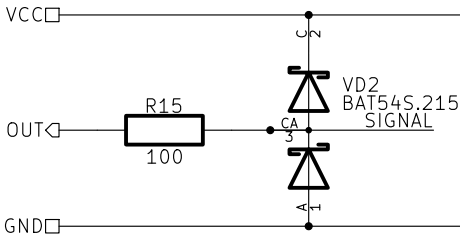
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Sensor Connector

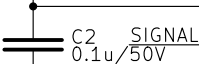
Pull-up/Pull-down



ESD Protection

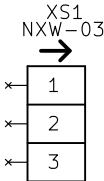


Decoupling capacitor



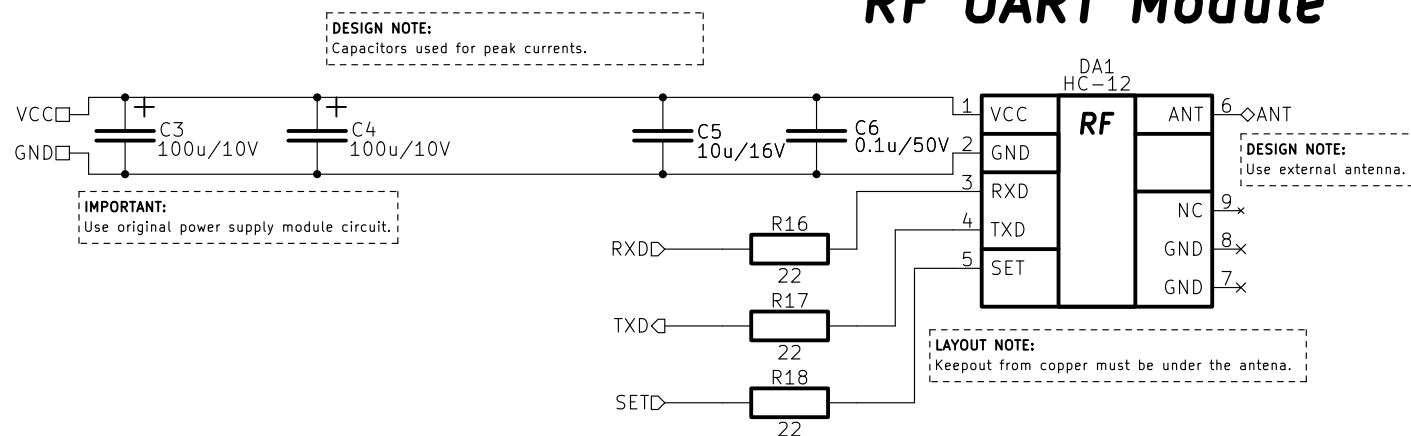
Connector

XT2 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



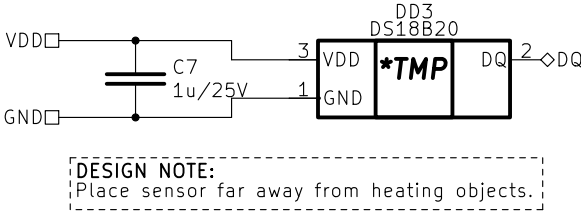
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet 4/27

RF UART Module

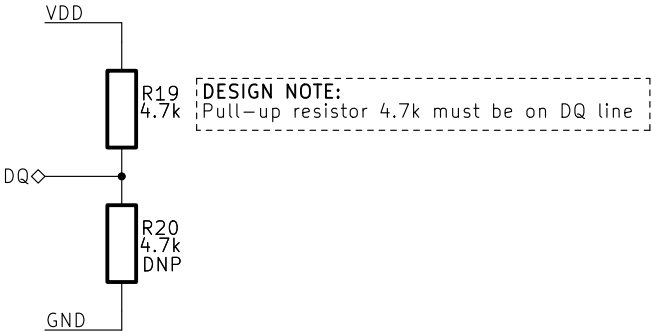


Responsible dept.	Technical reference	Document type	Document status
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	Approved by		Rev. Date of issue Lang. Sheet
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Temperature Sensor



Pull-up/Pull-down



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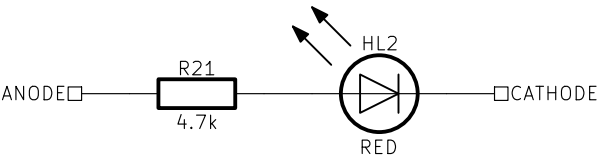
A

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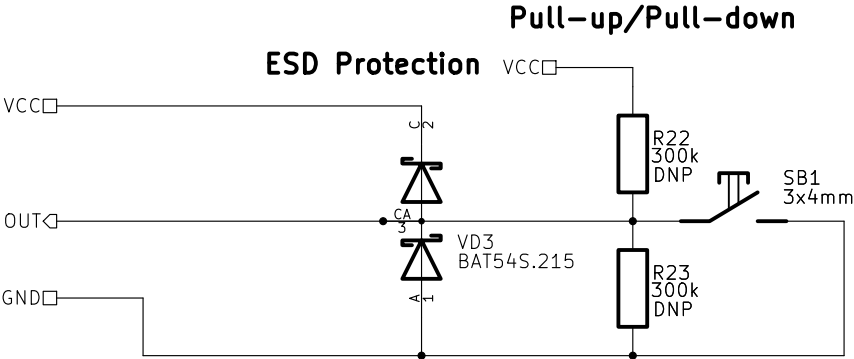
D

Indicator Diode



Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		
		Rev.	Date of issue Lang. Sheet
			6/27

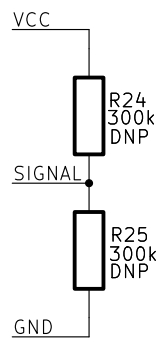
Button



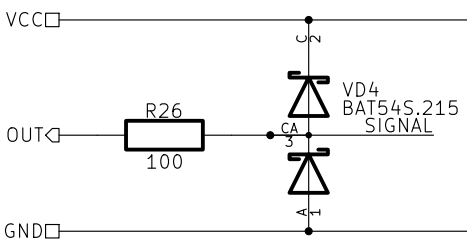
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet
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Sensor Connector

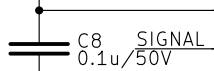
Pull-up/Pull-down



ESD Protection

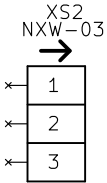


Decoupling capacitor



Connector

XT3 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



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	Created by	Title, Supplementary title					
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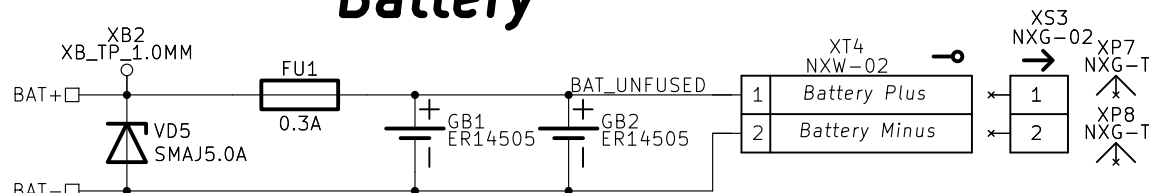
A

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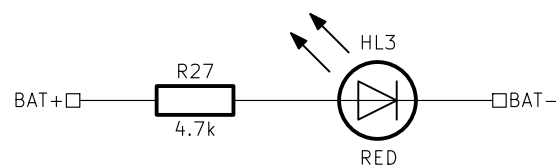
D

Battery

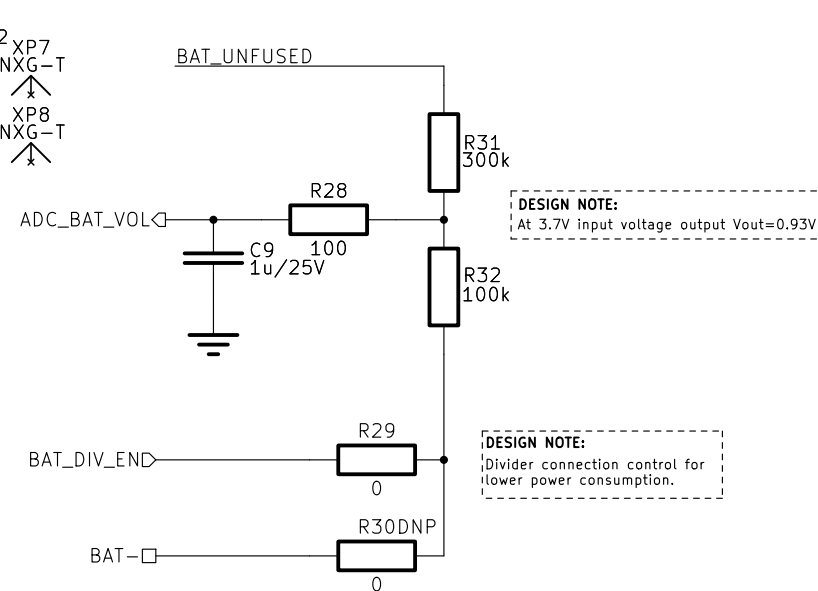
**DESIGN NOTE:**

Consider to use TVS diode
with working peak reverse voltage:
3.8-4.2V

Power Indicator



Battery Voltage Divider

**DESIGN NOTE:**

At 3.7V input voltage output Vout=0.93V

DESIGN NOTE:

Divider connection control for
lower power consumption.

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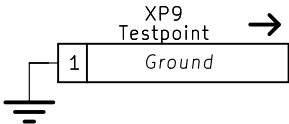
A

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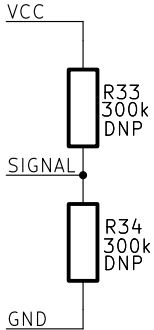
Testpoints



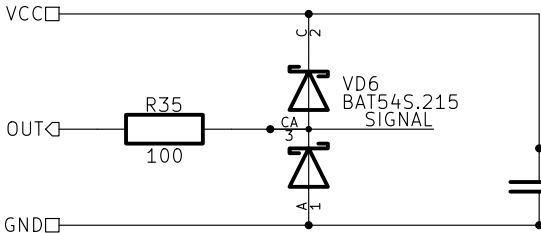
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		
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Sensor Connector

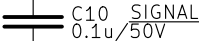
Pull-up/Pull-down



ESD Protection

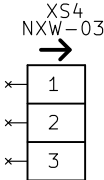


Decoupling capacitor



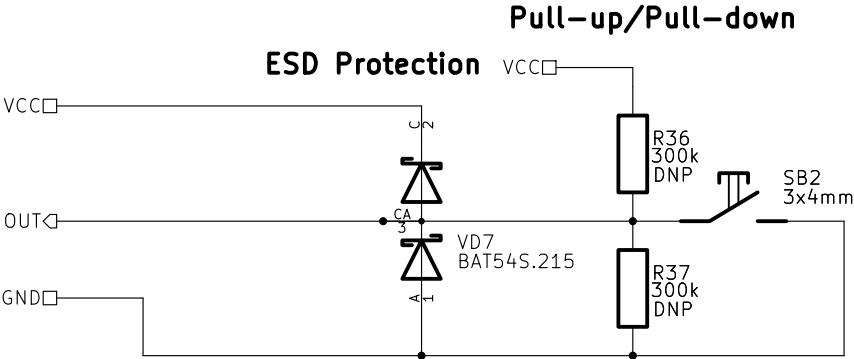
Connector

XT5 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
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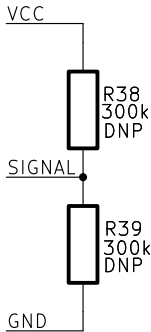
Button



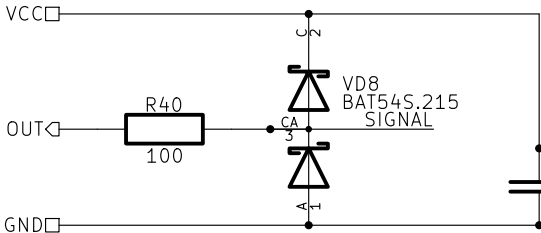
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	Approved by		Rev. Date of issue Lang. Sheet
			12/27

Sensor Connector

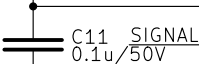
Pull-up/Pull-down



ESD Protection

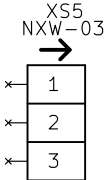


Decoupling capacitor



Connector

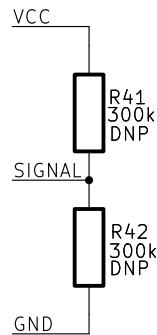
XT6 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



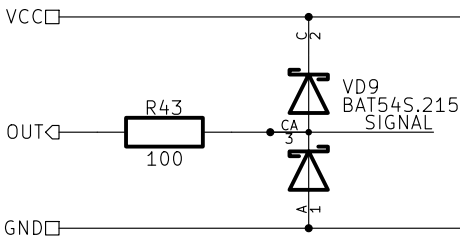
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	Approved by			Rev.	Date of issue	Lang.	Sheet
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Sensor Connector

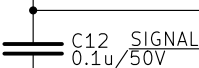
Pull-up/Pull-down



ESD Protection

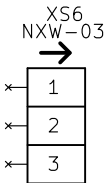


Decoupling capacitor



Connector

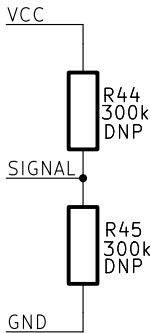
XT7 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



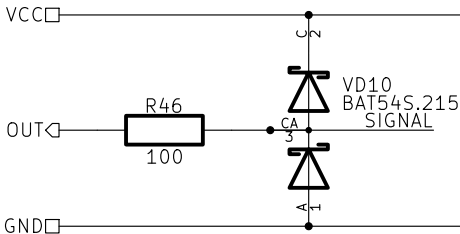
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	Created by	Title, Supplementary title					
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Sensor Connector

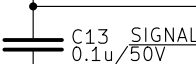
Pull-up/Pull-down



ESD Protection

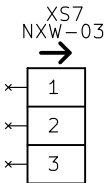


Decoupling capacitor



Connector

XT8 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



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	Created by	Title, Supplementary title					
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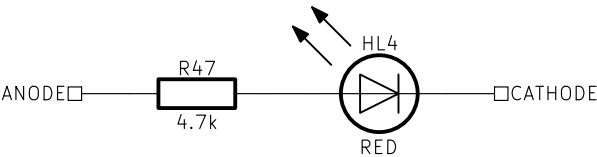
A

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Indicator Diode



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	Approved by		Rev. Date of issue Lang. Sheet
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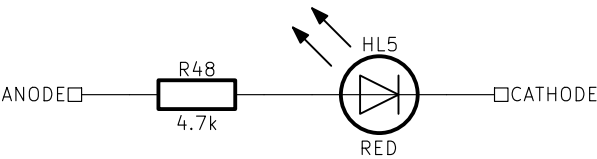
A

B

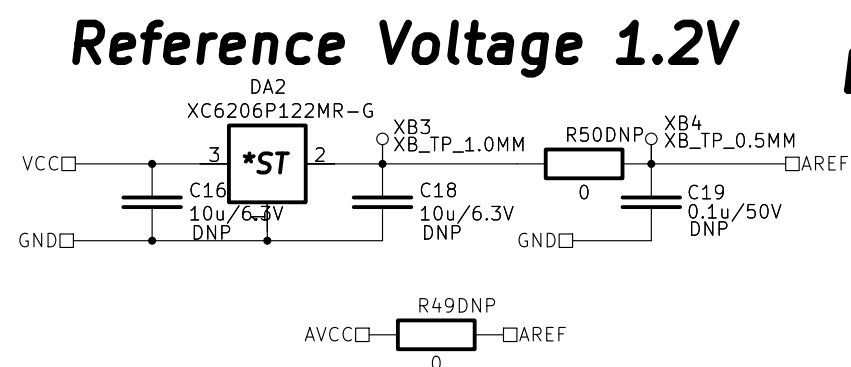
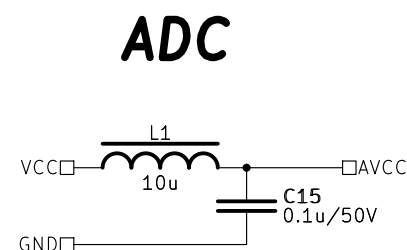
C

D

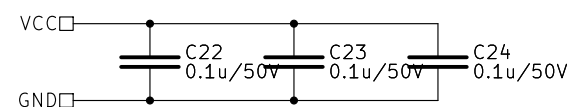
Indicator Diode



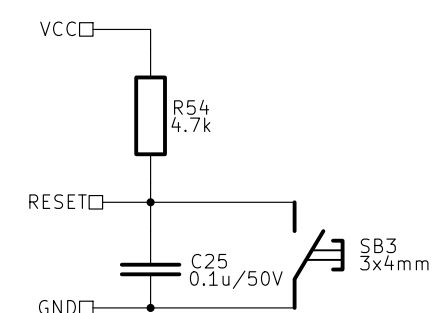
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	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
			19/27



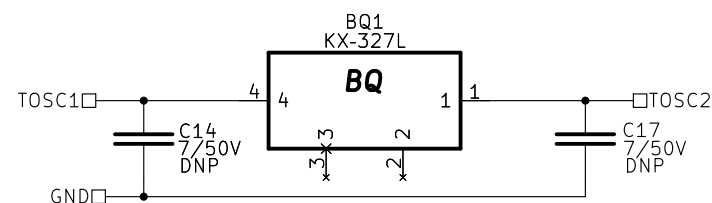
Decoupling Capacitors



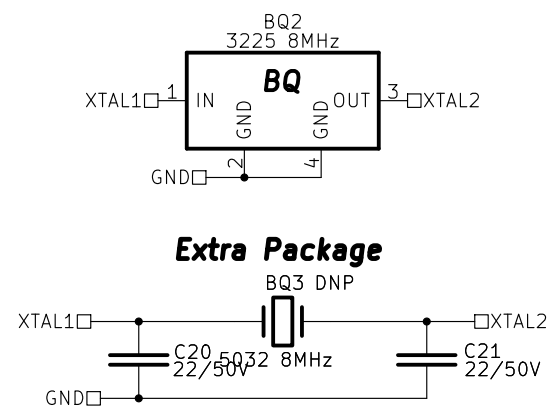
Reset



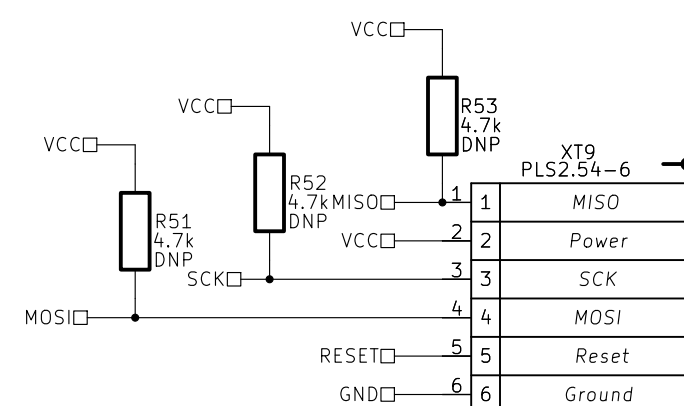
Low-speed Crystal



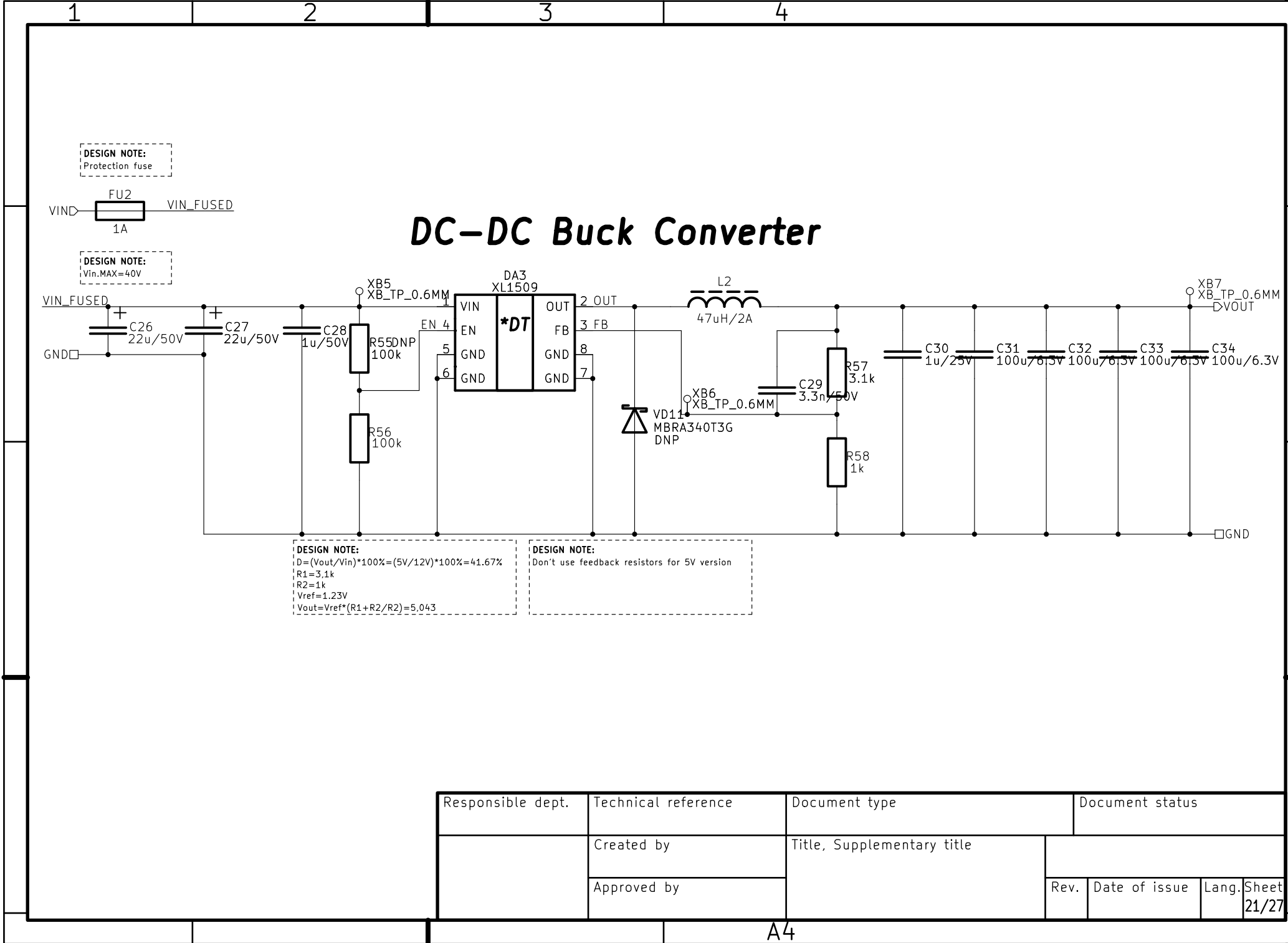
High-speed Crystal



Flashing (ICSP)



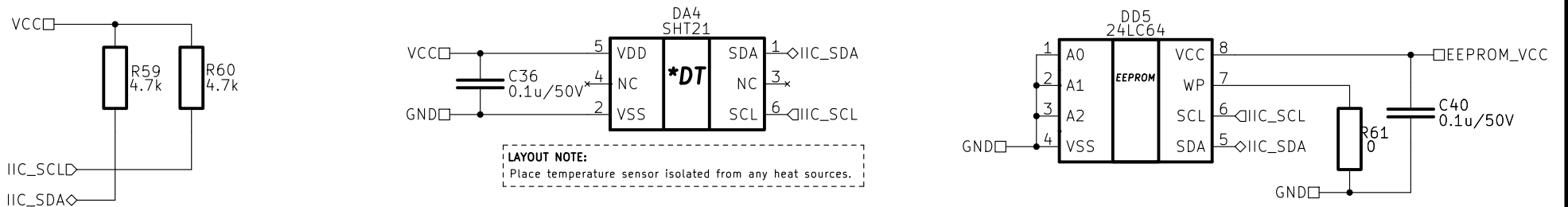
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				Rev.	Date of issue	Lang.	Sheet 20/27



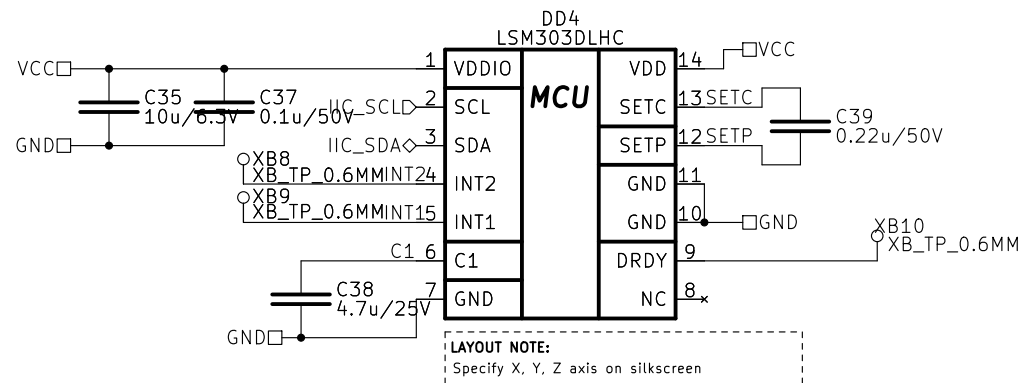
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IIC Sensors

Pull-up Temperature and Humidity Sensor IIC EEPROM

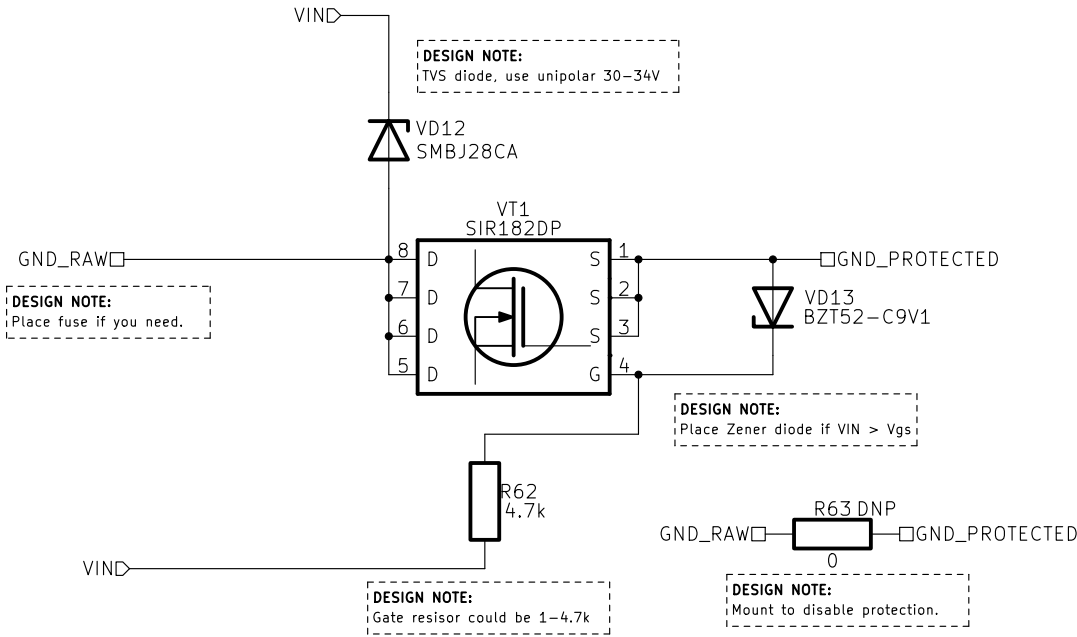


3D accelerometer and 3D magnetometer



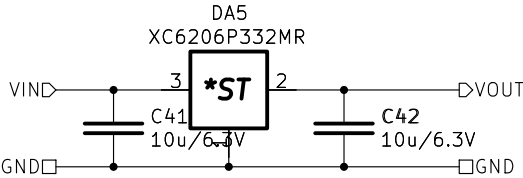
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	Approved by						
		Rev.	Date of issue	Lang.	Sheet		
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Reverse Polarity Protection



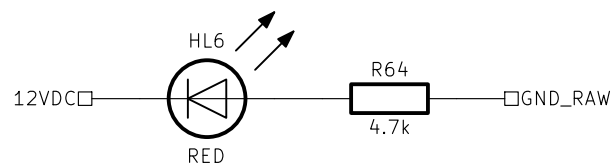
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	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Voltage Regulator 3.3V 0.2A

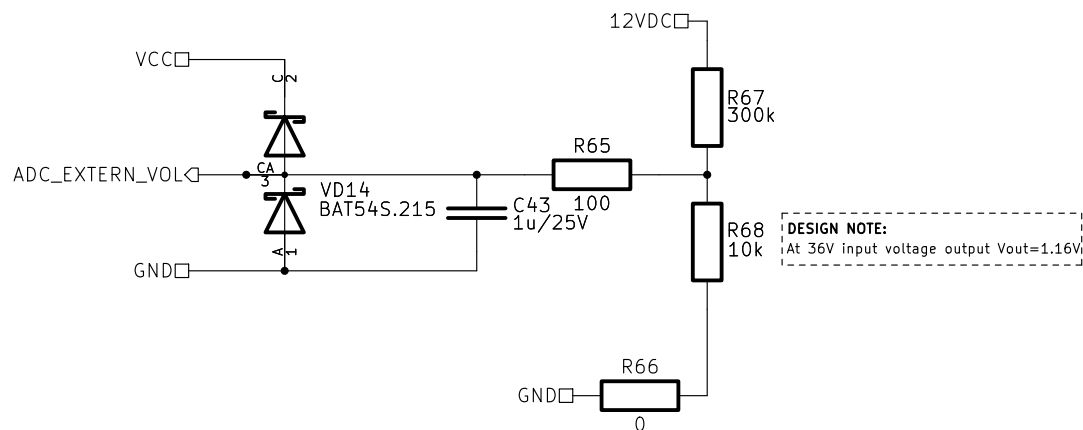


Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Power Indicator

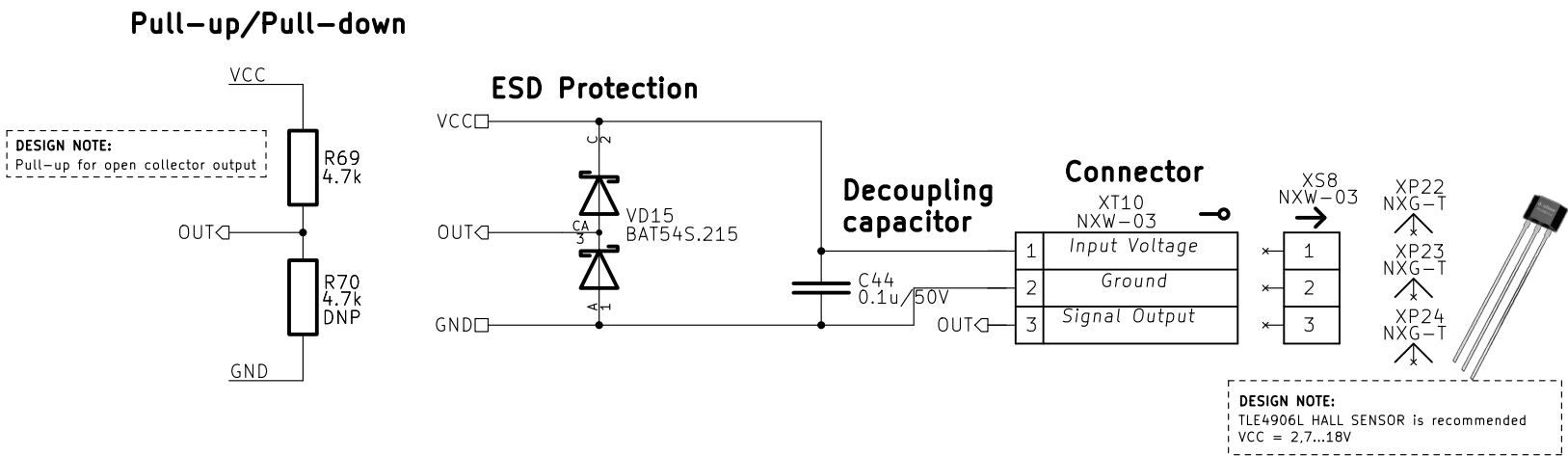


External Supply Voltage Divider



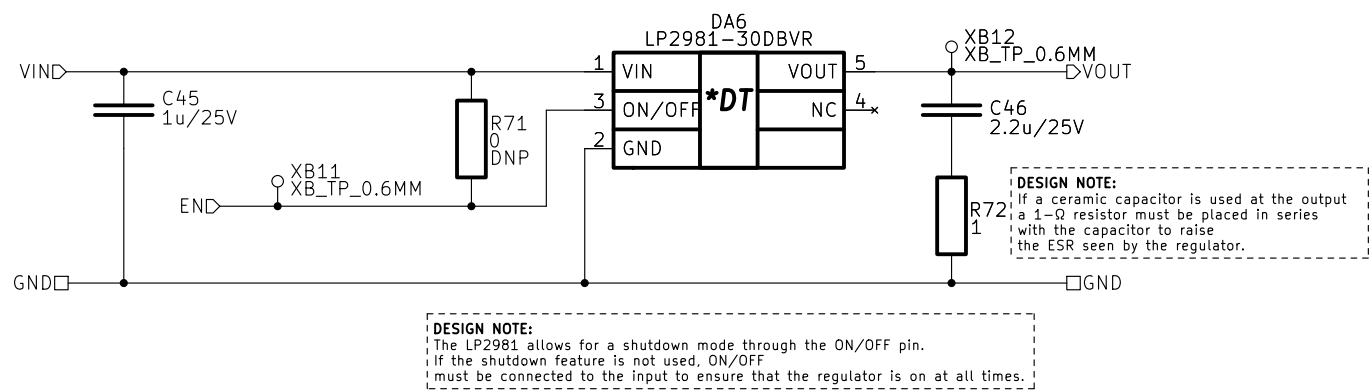
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Sensor Connector



Responsible dept.	Technical reference	Document type	Document status
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	Approved by		Rev. Date of issue Lang. Sheet
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Voltage Regulator 3.0V 0.2A



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A

B

C

D

Mounting Holes

×1  J1
Spacer M2

×1  J2
Spacer M2

×1  J3
Spacer M2

×1  J4
Spacer M2

×1  J5
Spacer M2

×1  J6
Spacer M2

Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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