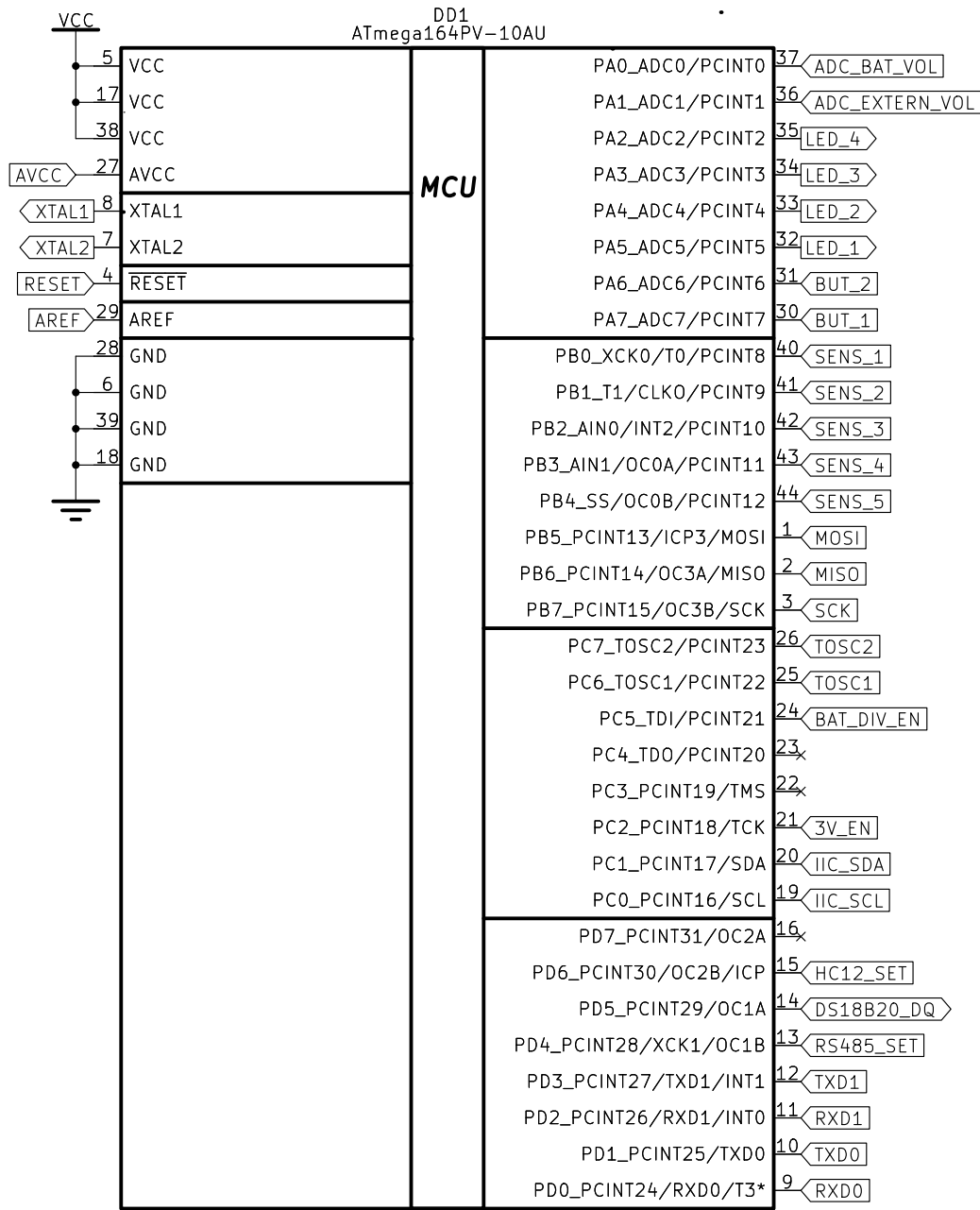
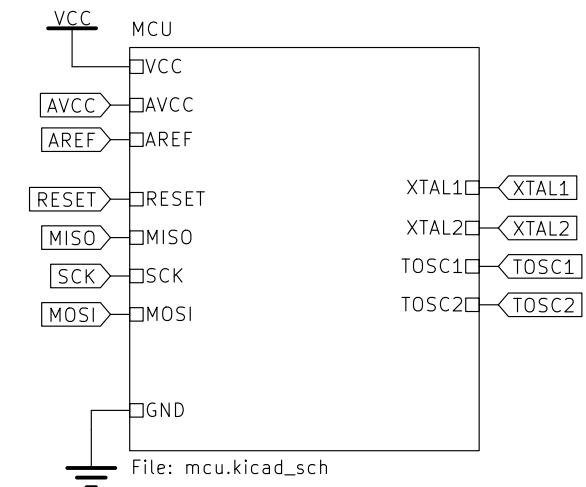


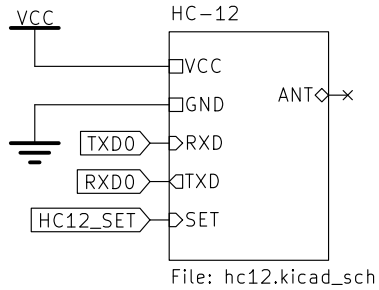
## MCU



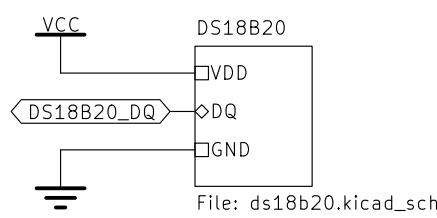
## MCU Components



## RF Module

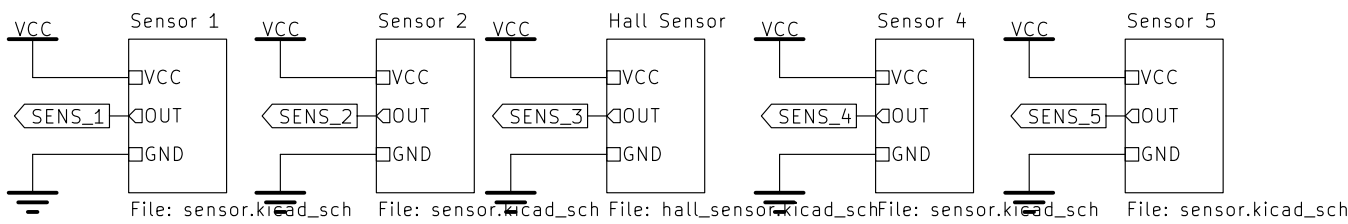


## Temperature Sensor

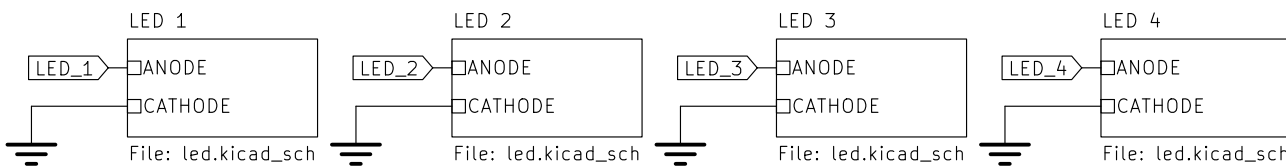


## Sensors

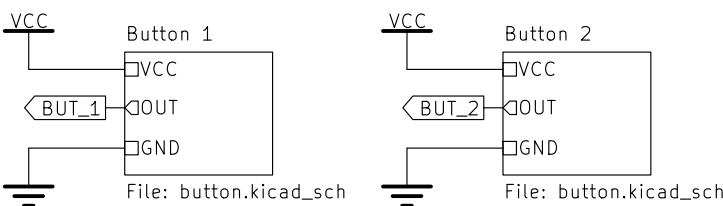
### Hall-sensor



## Indicators

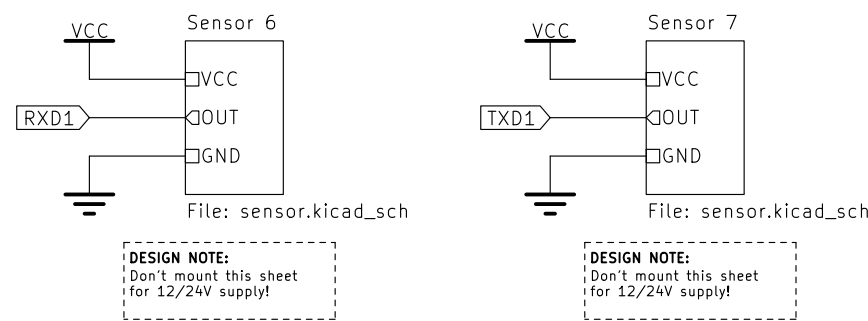


## Buttons

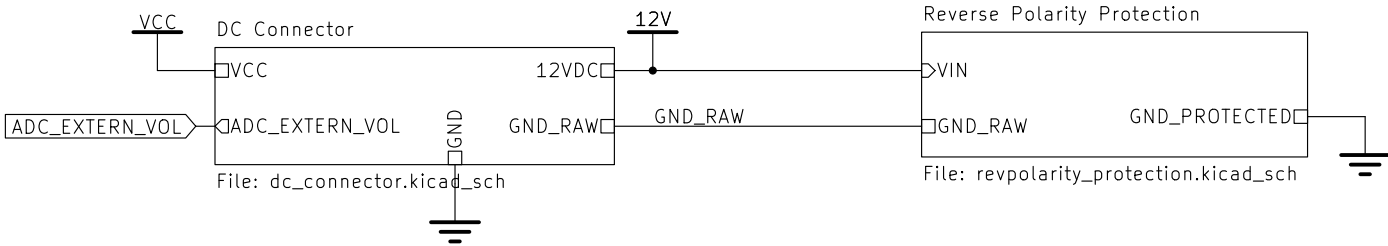


## Additional Feature

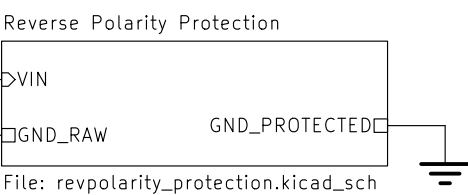
### Hall Sensor 1 Hall Sensor 2



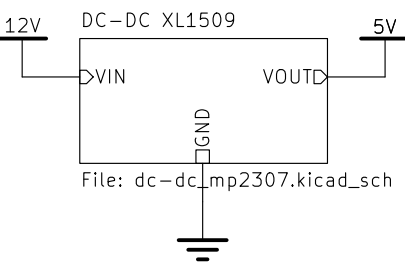
## External Voltage Input



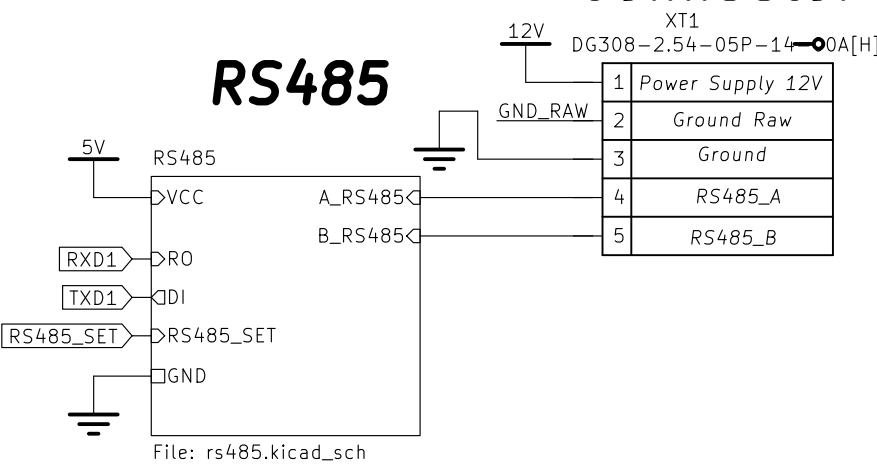
## Reverse Polarity Protection



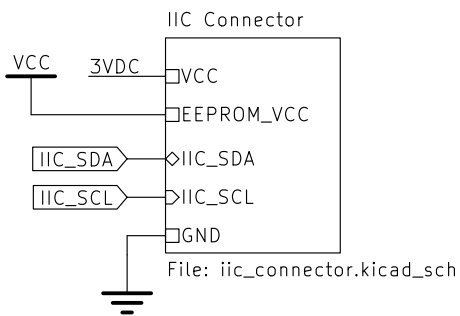
## DC-DC 5V



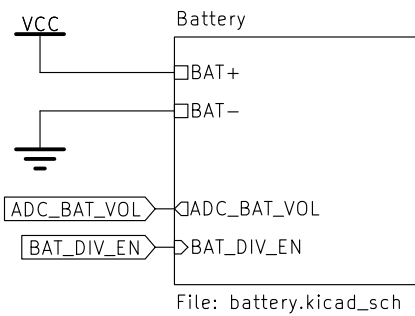
## External Voltage Connector



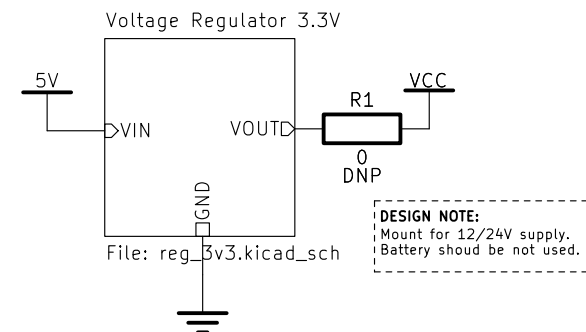
## IIC Sensors and EEPROM



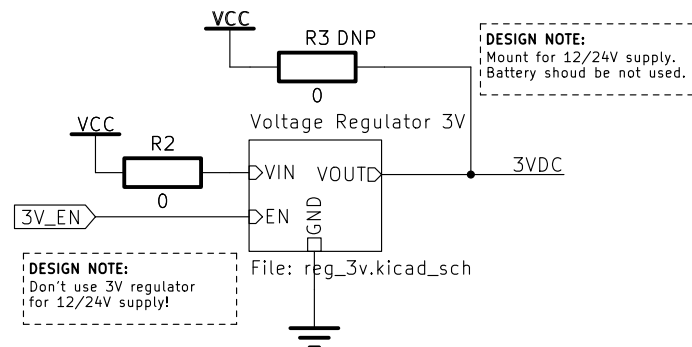
## Battery



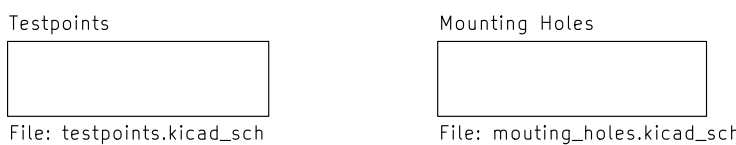
## Voltage Regulator 3.3V



## 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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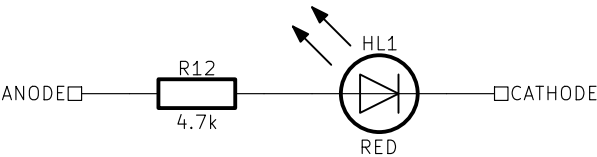
A

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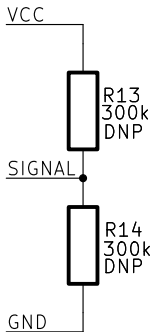
# Indicator Diode



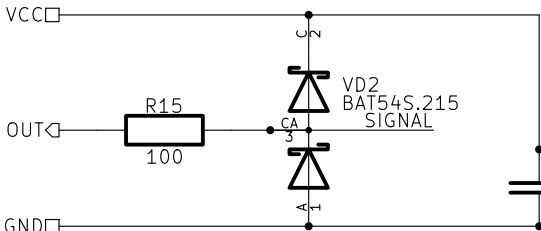
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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# Sensor Connector

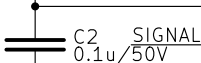
## Pull-up/Pull-down



## ESD Protection

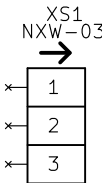


## Decoupling capacitor



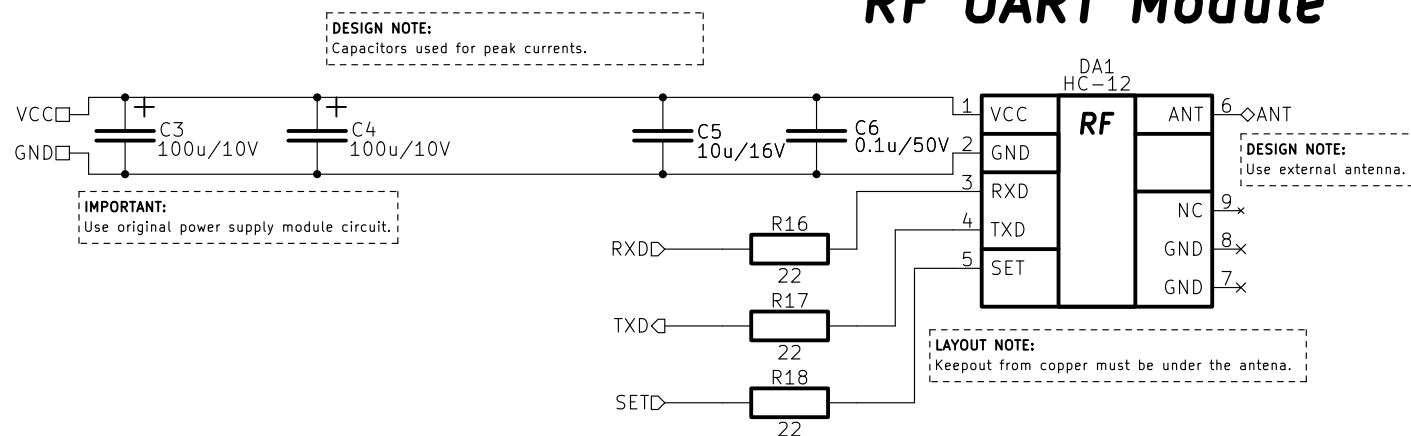
## Connector

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



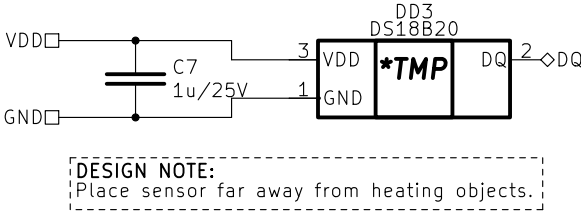
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by		Rev.	Date of issue	Lang.	Sheet	
							4/27

## RF UART Module

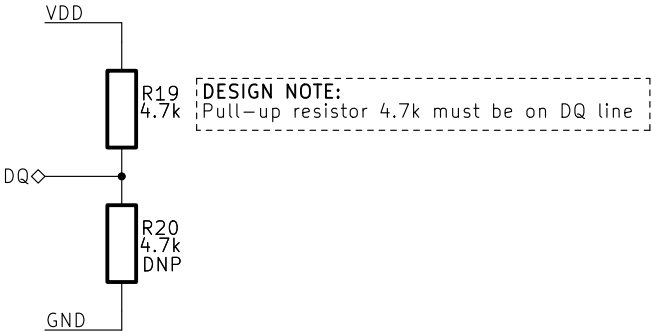


Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Temperature Sensor



Pull-up/Pull-down



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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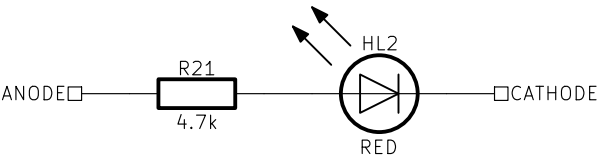
A

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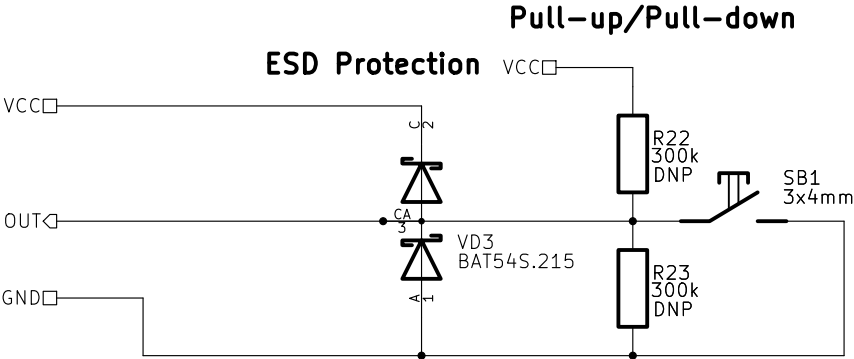
D

# Indicator Diode



Responsible dept.	Technical reference	Document type	Document status
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	Approved by		
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Button

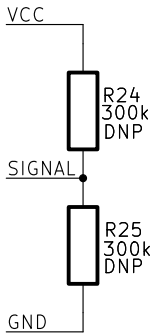


Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet
							7/27

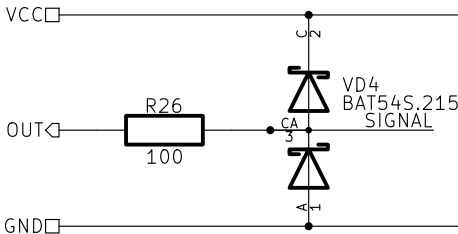


# Sensor Connector

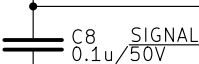
## Pull-up/Pull-down



## ESD Protection

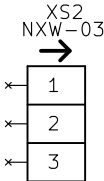


## Decoupling capacitor



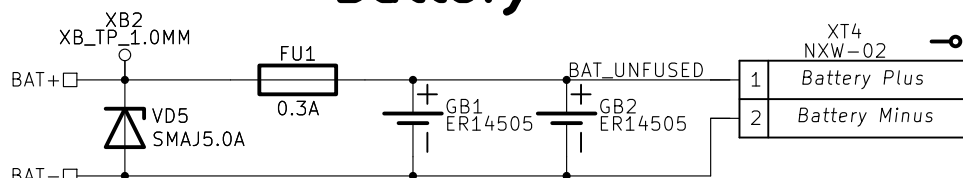
## Connector

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



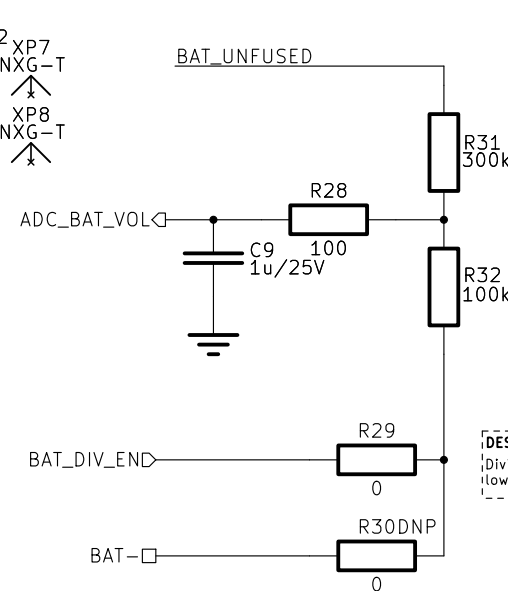
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet
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# Battery



**DESIGN NOTE:**  
Consider to use TVS diode  
with working peak reverse voltage:  
3.8–4.2V

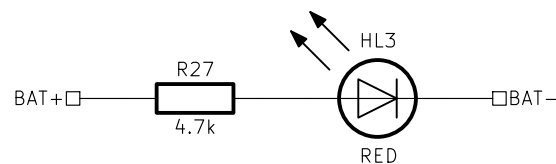
# Battery Voltage Divider



**DESIGN NOTE:**  
At 3.7V input voltage output Vout=0.93V

**DESIGN NOTE:**  
Divider connection control for  
lower power consumption.

# Power Indicator



Responsible dept.	Technical reference	Document type		Document status			
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	Approved by						
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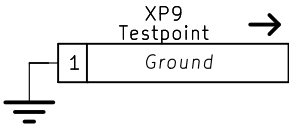
A

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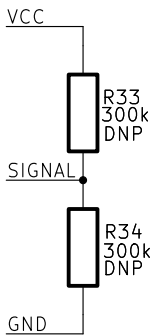
Testpoints



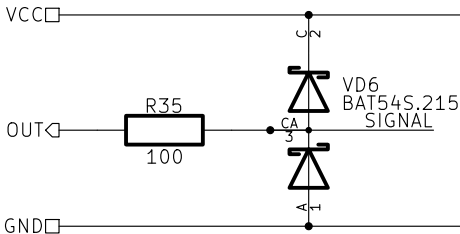
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		
		Rev.	Date of issue
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Sensor Connector

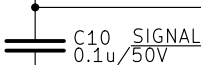
Pull-up/Pull-down



ESD Protection

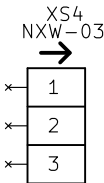


Decoupling capacitor



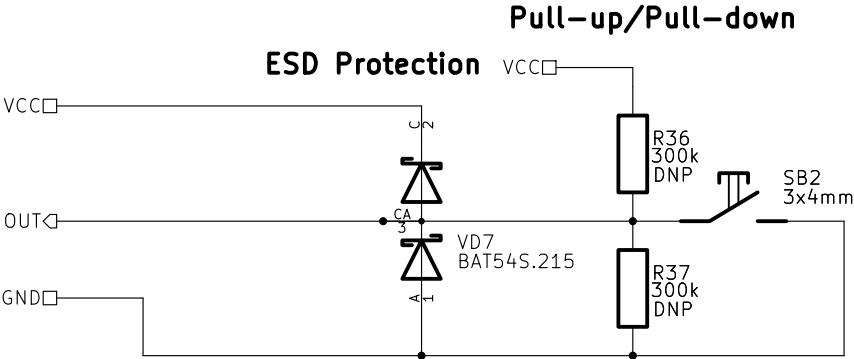
Connector

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



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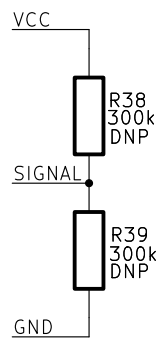
Button



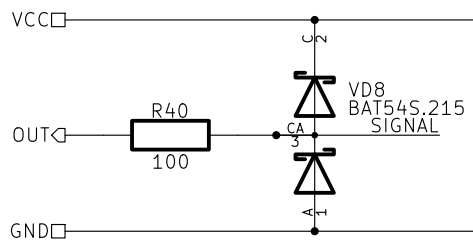
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
			12/27

Sensor Connector

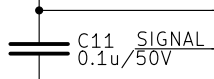
Pull-up/Pull-down



ESD Protection

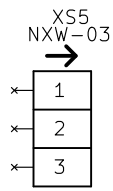


Decoupling capacitor



Connector

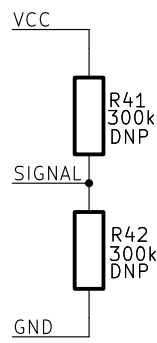
XT6 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



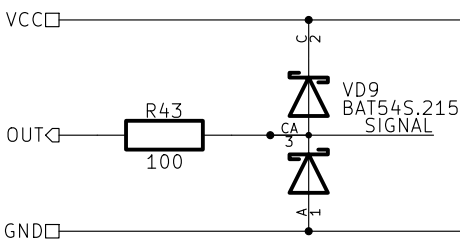
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by		Rev.	Date of issue	Lang.	Sheet 14/27	

Sensor Connector

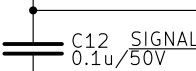
Pull-up/Pull-down



ESD Protection

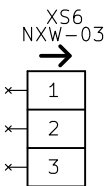


Decoupling capacitor



Connector

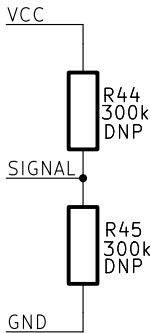
XT7 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



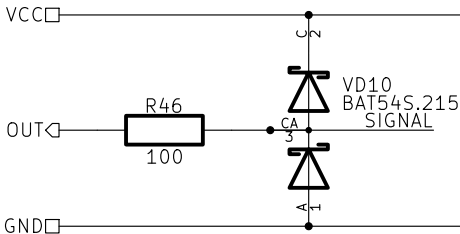
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet
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Sensor Connector

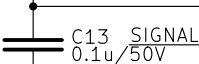
Pull-up/Pull-down



ESD Protection

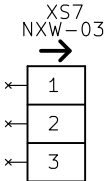


Decoupling capacitor



Connector

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



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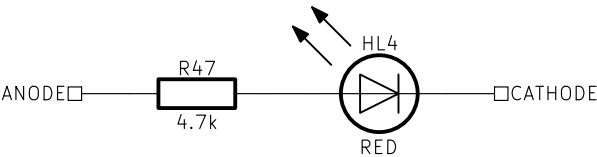
A

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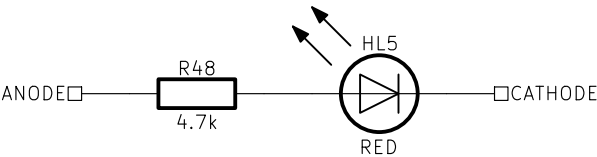
D

# Indicator Diode

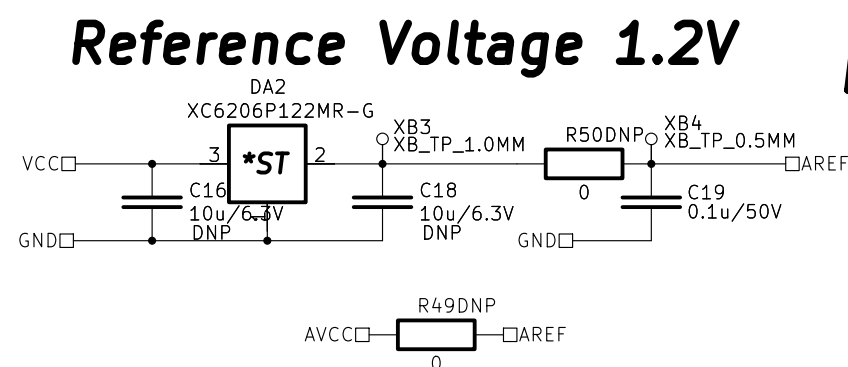
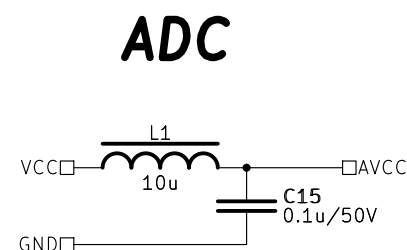


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	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet
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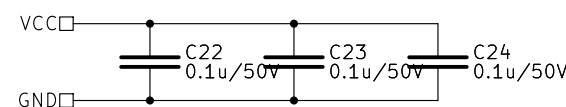
Indicator Diode



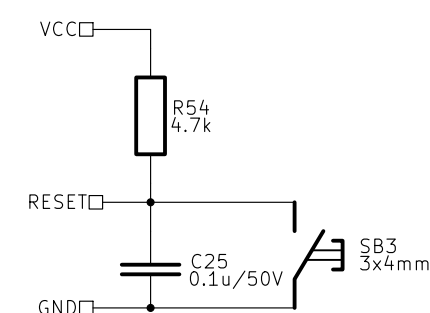
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		
		Rev.	Date of issue Lang. Sheet
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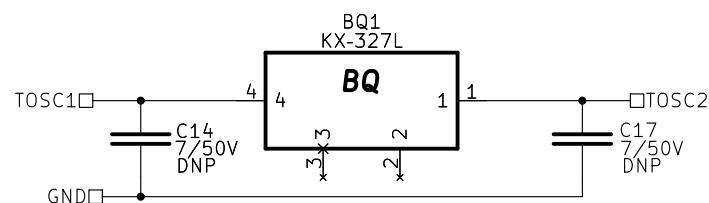
**Decoupling Capacitors**



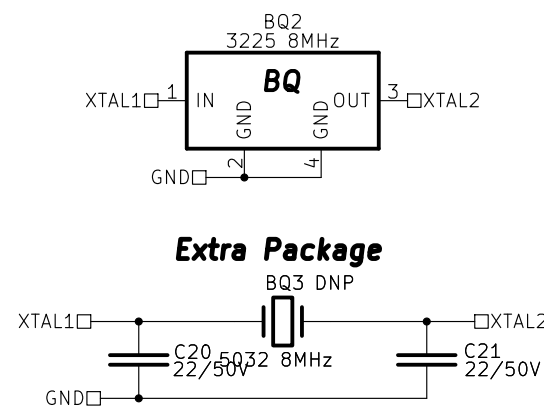
**Reset**



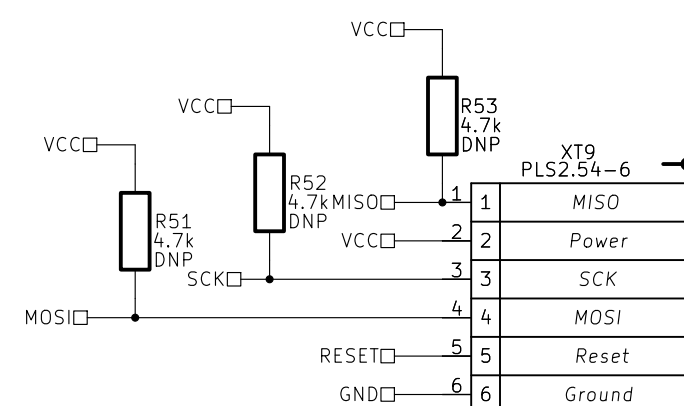
**Low-speed Crystal**



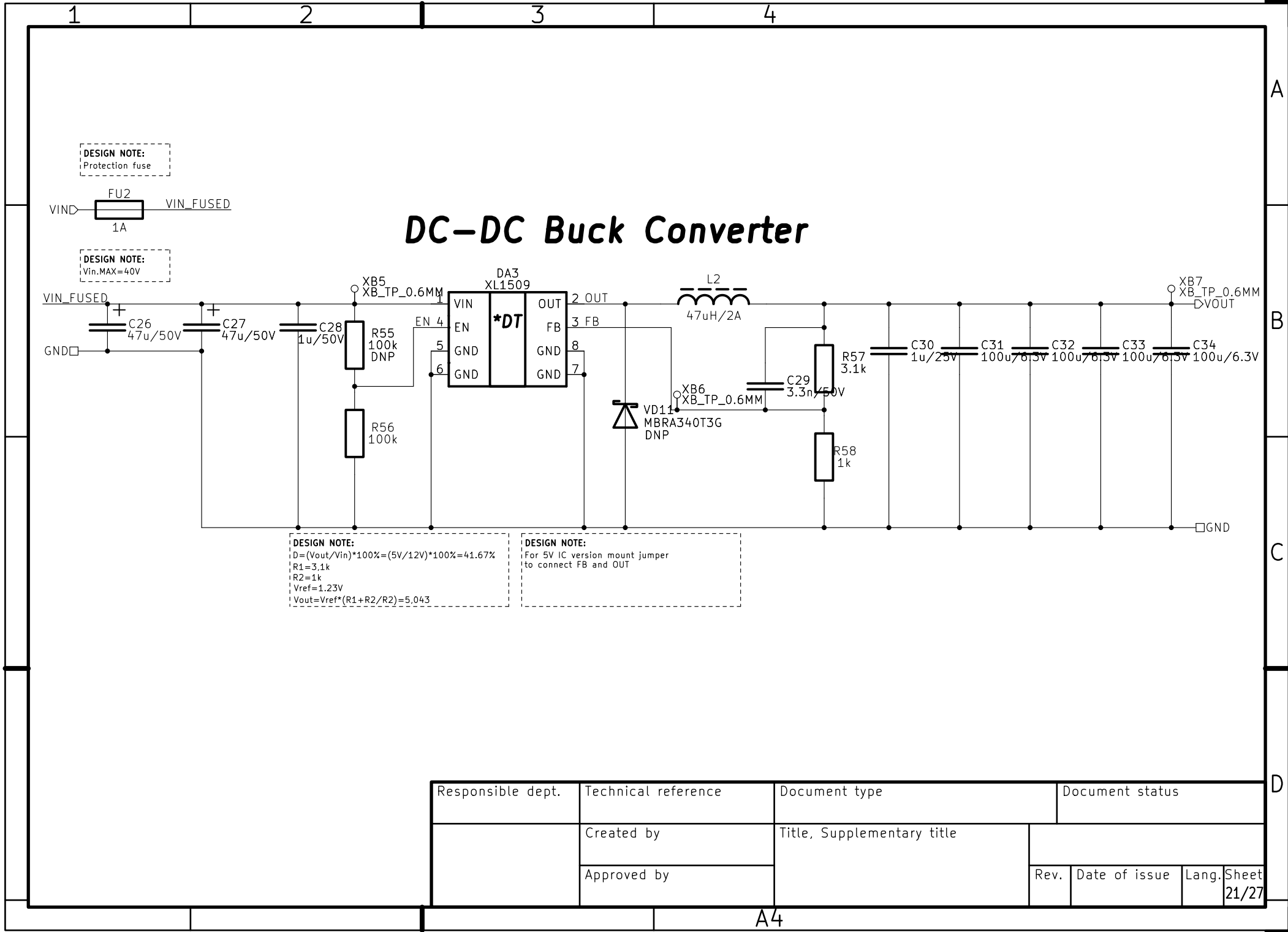
**High-speed Crystal**



**Flashing (ICSP)**



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	Approved by		Rev. Date of issue Lang. Sheet

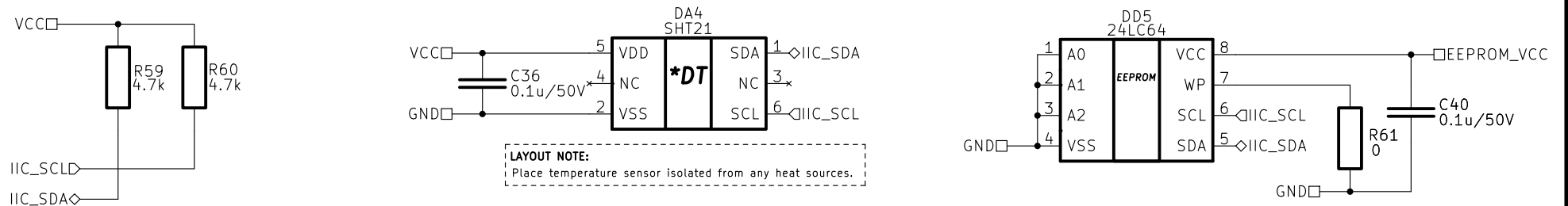


Responsible dept.	Technical reference	Document type	Document status			
	Created by	Title, Supplementary title		Rev. Date of issue Lang. Sheet		
	Approved by					

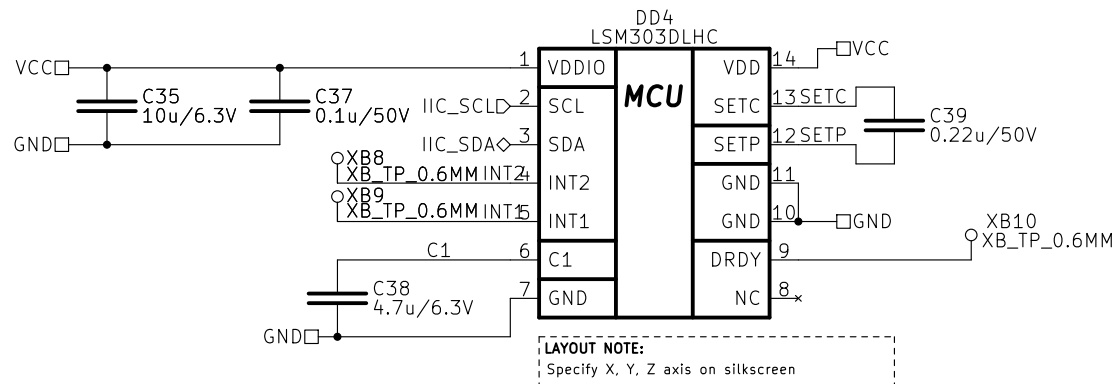
A4

# IIC Sensors

## Pull-up    Temperature and Humidity Sensor    IIC EEPROM

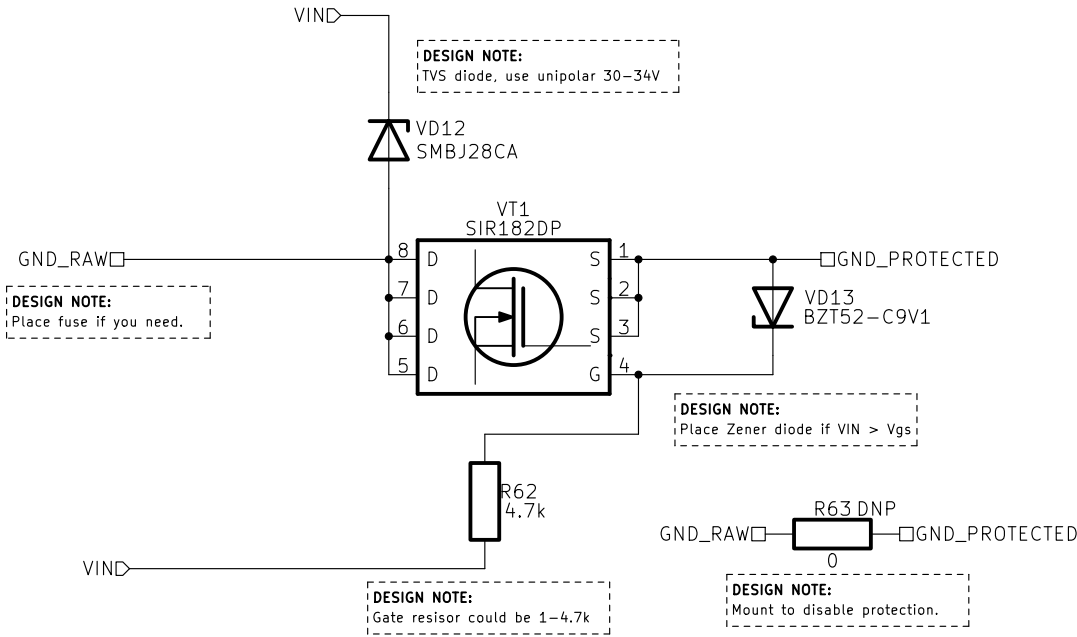


## 3D accelerometer and 3D magnetometer



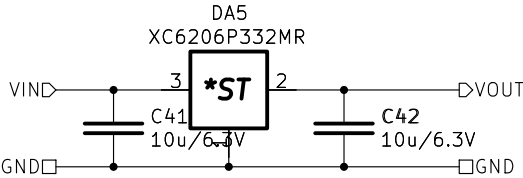
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by						
		Rev.	Date of issue	Lang.	Sheet		
					21/27		

Reverse Polarity Protection



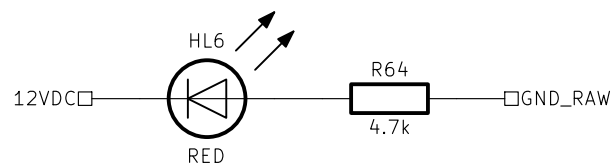
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Voltage Regulator 3.3V 0.2A

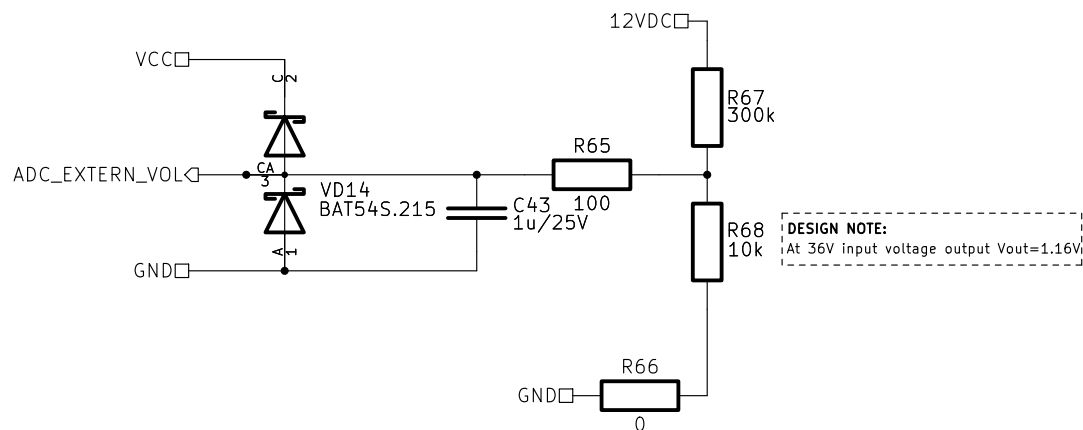


Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
			22/27

## Power Indicator



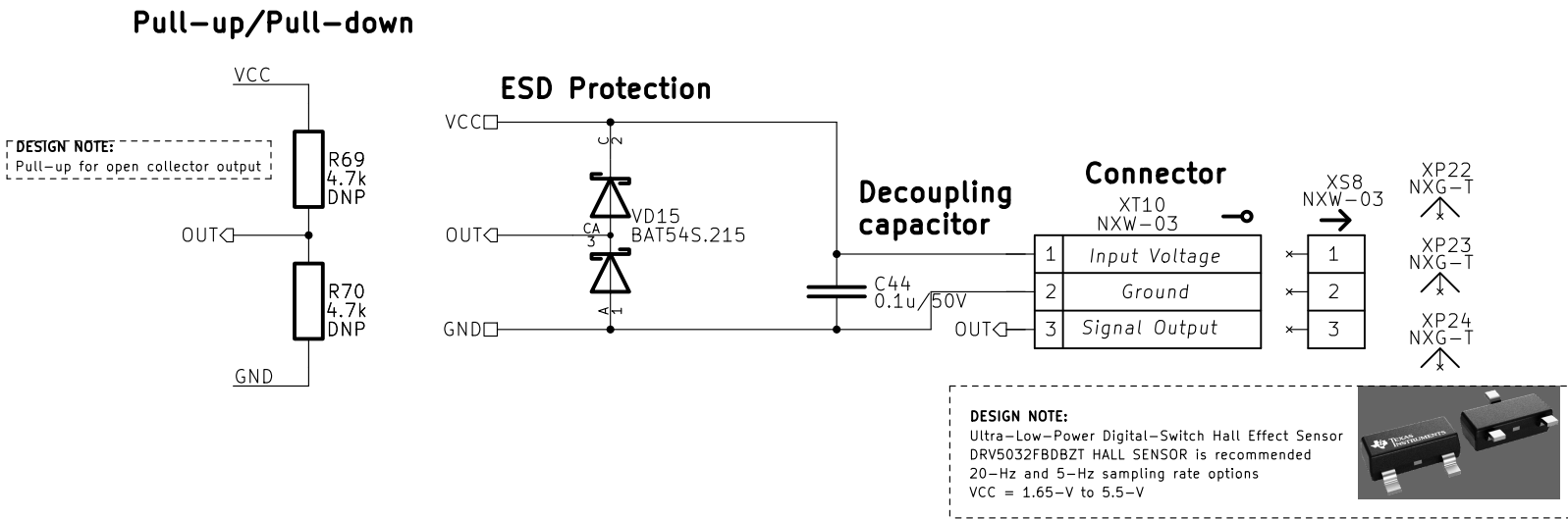
## External Supply Voltage Divider



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	Created by	Title, Supplementary title	
	Approved by		
		Rev.	Date of issue
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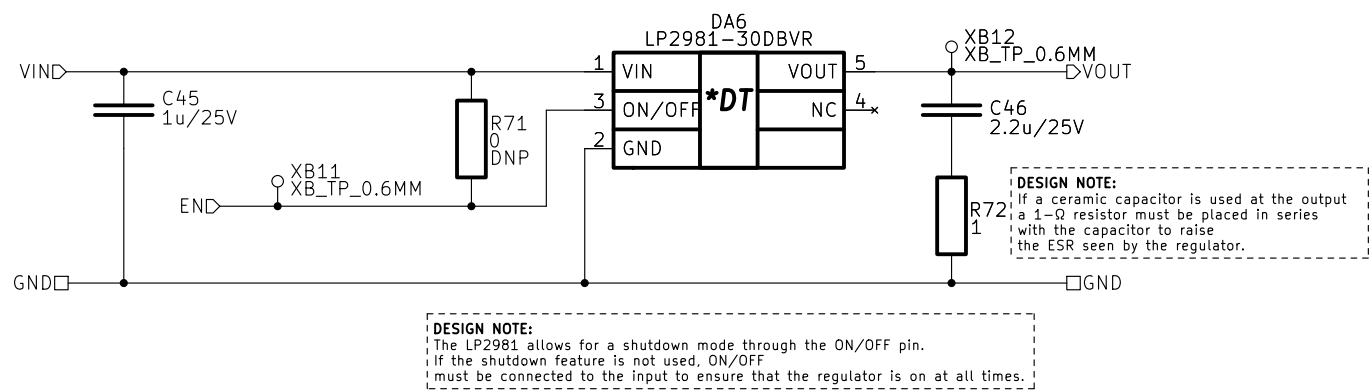


# Sensor Connector



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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Voltage Regulator 3.0V 0.2A



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	Approved by			Rev.	Date of issue	Lang.	Sheet
							26/27

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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

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