

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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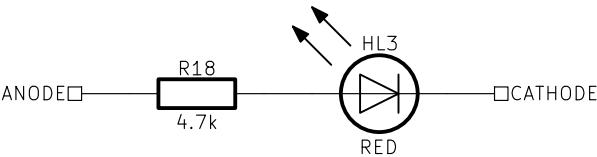
A

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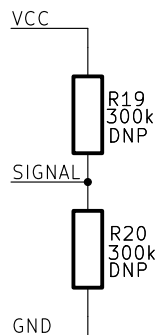
Indicator Diode



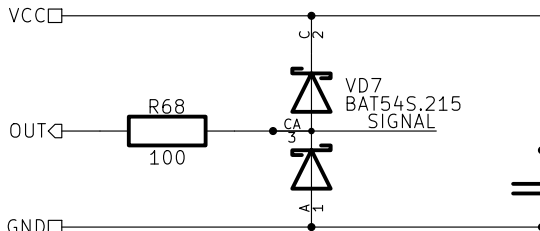
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Sensor Connector

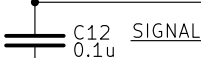
Pull-up/Pull-down



ESD Protection



Decoupling capacitor

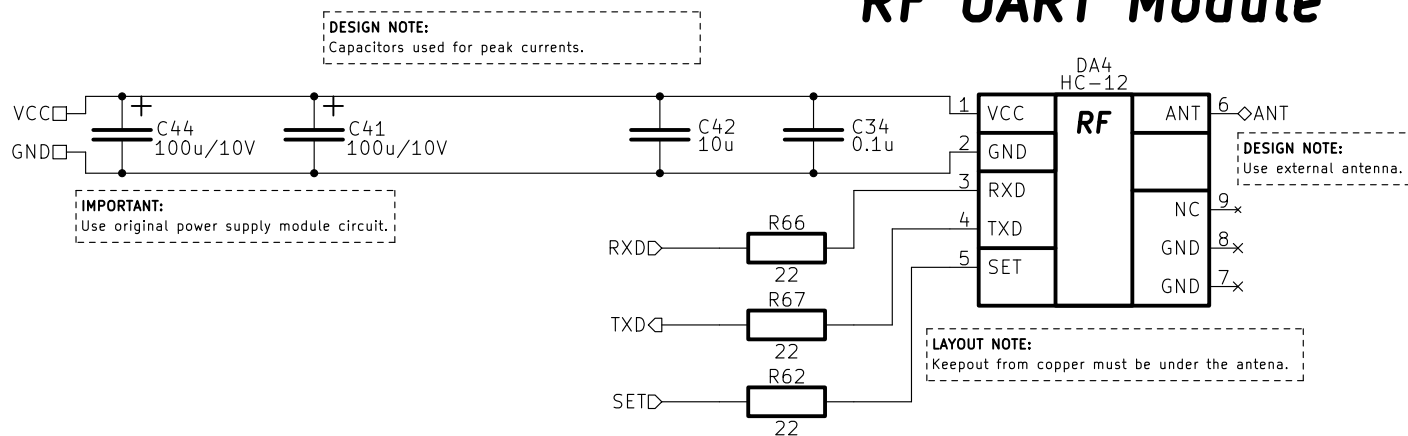


Connector

XT6 XH2.54-3		—○
1	Input Voltage	
2	Signal Output	
3	Ground	

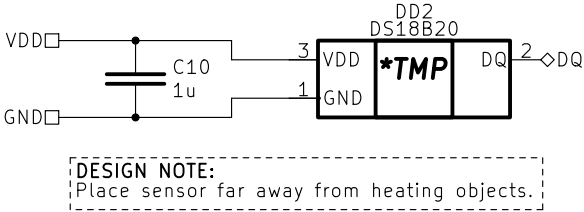
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	Created by	Title, Supplementary title				
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RF UART Module

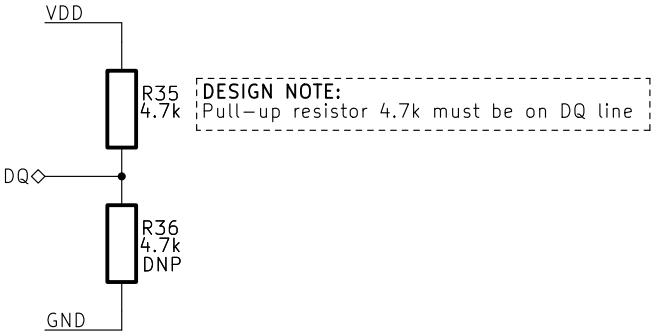


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Temperature Sensor



Pull-up/Pull-down



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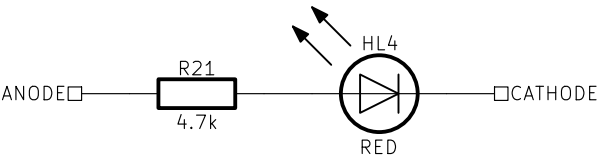
A

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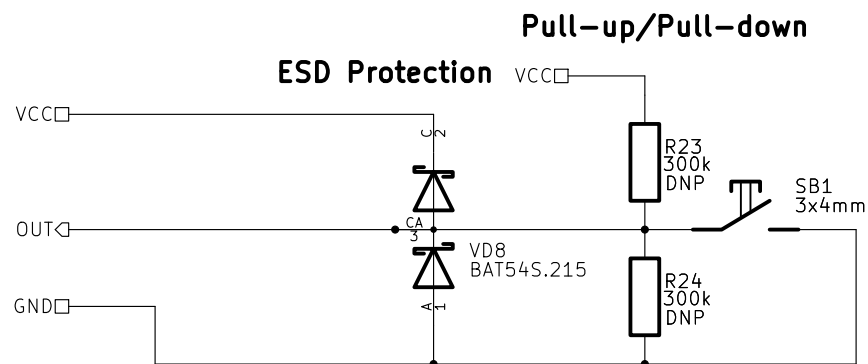
D

Indicator Diode



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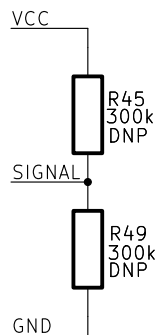
Button



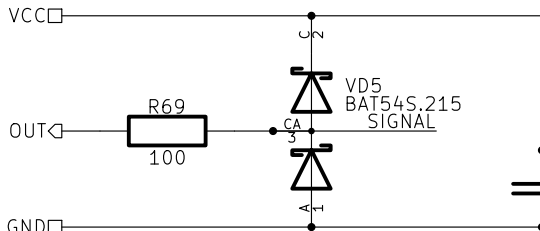
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Sensor Connector

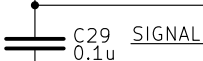
Pull-up/Pull-down



ESD Protection



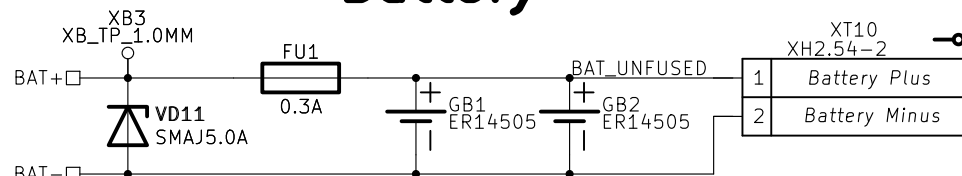
Decoupling capacitor



Connector

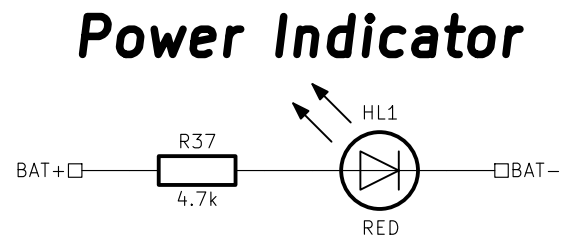
XT1		
XH2.54-3		
1	Input Voltage	
2	Signal Output	
3	Ground	

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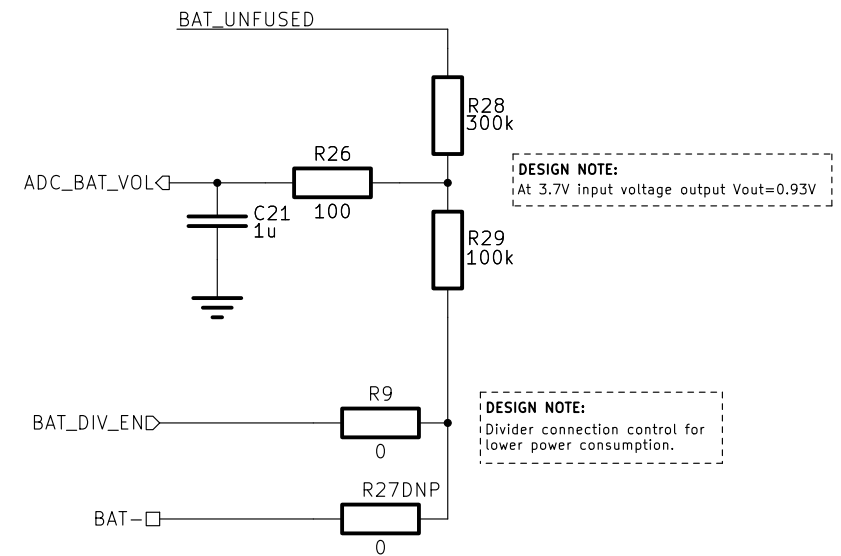
DESIGN NOTE:
Consider to use TVS diode
with working peak reverse voltage:
3.8-4.2V

Battery



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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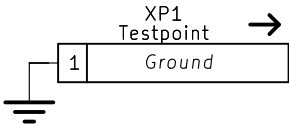
A

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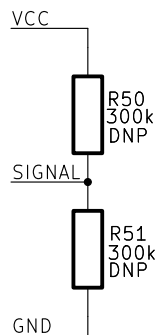
Testpoints



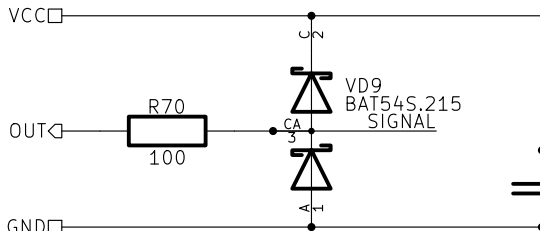
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Sensor Connector

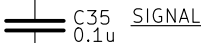
Pull-up/Pull-down



ESD Protection



Decoupling capacitor

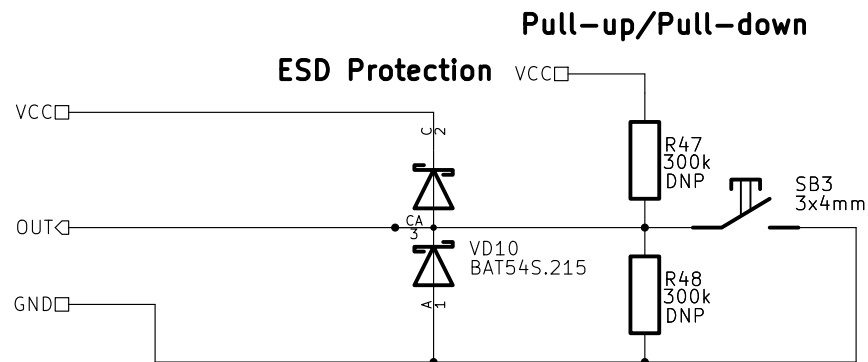


Connector

XT3 XH2.54-3		
1	Input Voltage	
2	Signal Output	
3	Ground	

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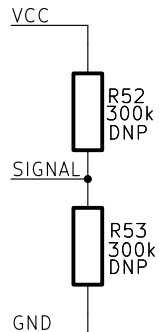
Button



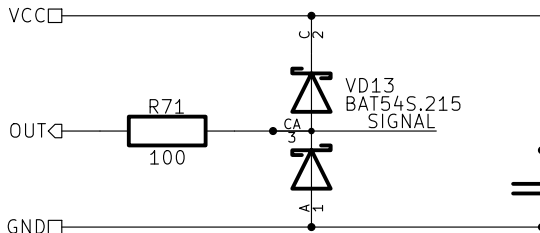
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Sensor Connector

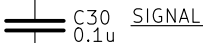
Pull-up/Pull-down



ESD Protection



Decoupling capacitor



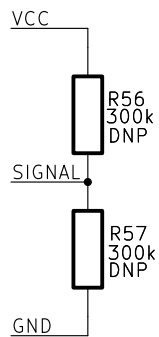
Connector

XT13 XH2.54-3		
1	Input Voltage	
2	Signal Output	
3	Ground	

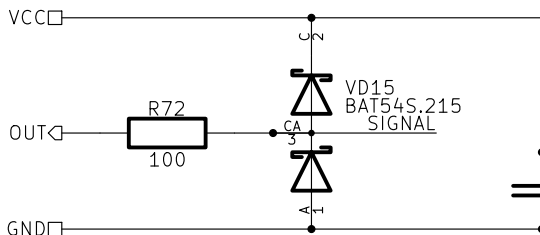
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Sensor Connector

Pull-up/Pull-down



ESD Protection



Decoupling capacitor

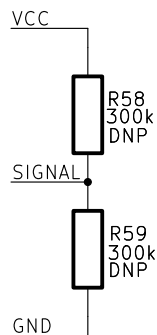
Connector

XT15 XH2.54-3		
1	Input Voltage	
2	Signal Output	
3	Ground	

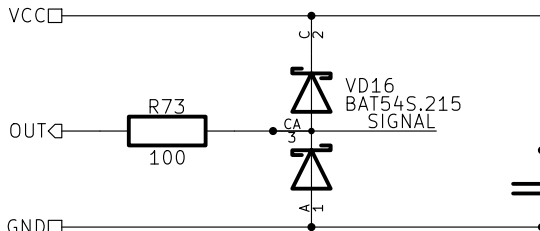
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Sensor Connector

Pull-up/Pull-down



ESD Protection



Decoupling capacitor

Connector

XT16 XH2.54-3		
1	Input Voltage	
2	Signal Output	
3	Ground	

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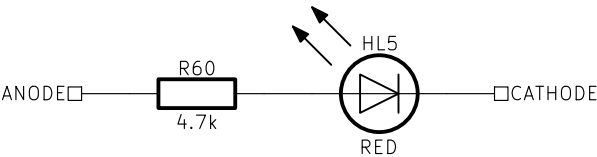
A

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D

Indicator Diode



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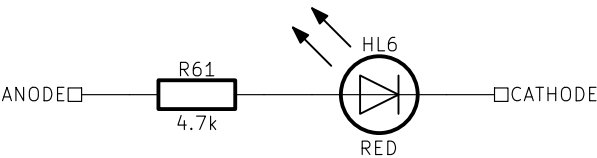
A

B

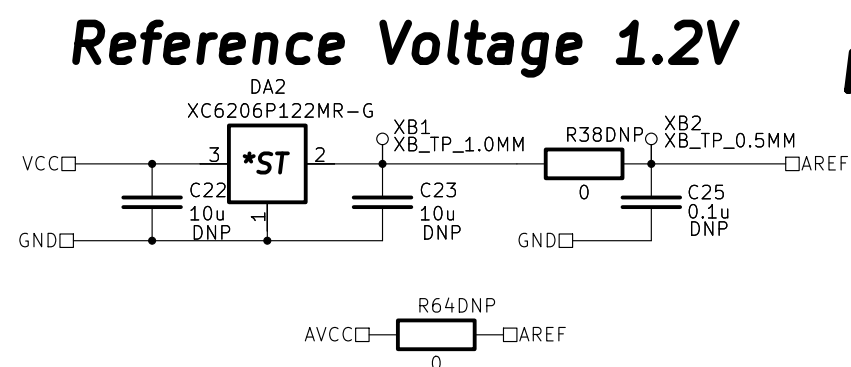
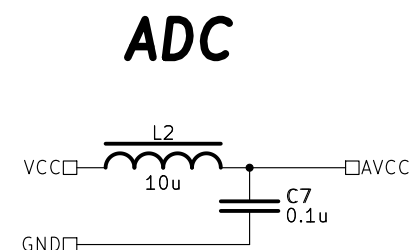
C

D

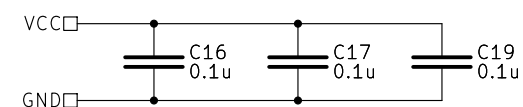
Indicator Diode



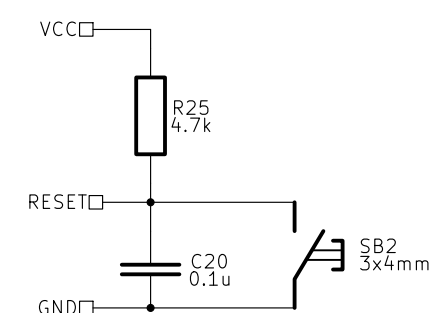
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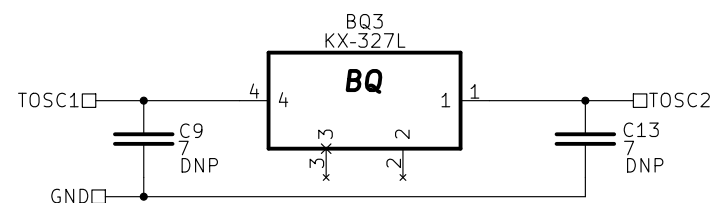
Decoupling Capacitors



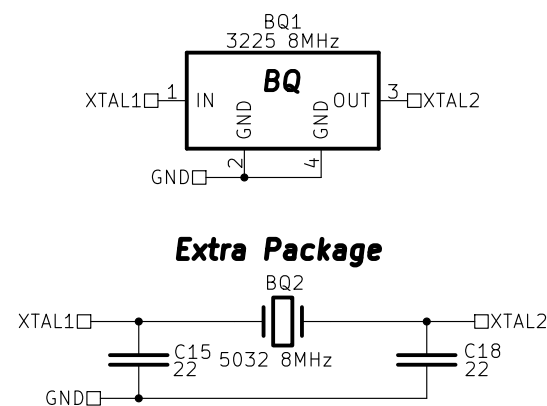
Reset



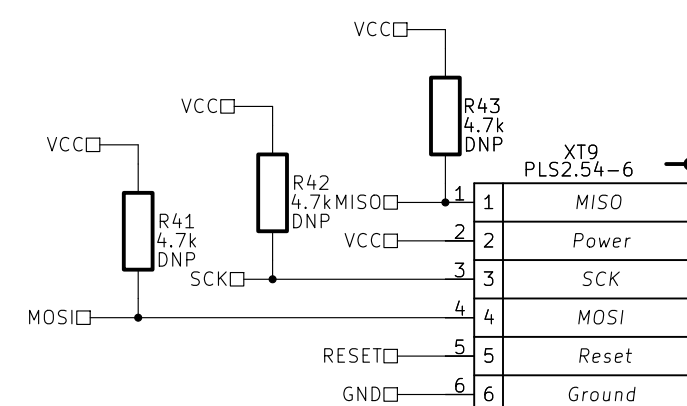
Low-speed Crystal



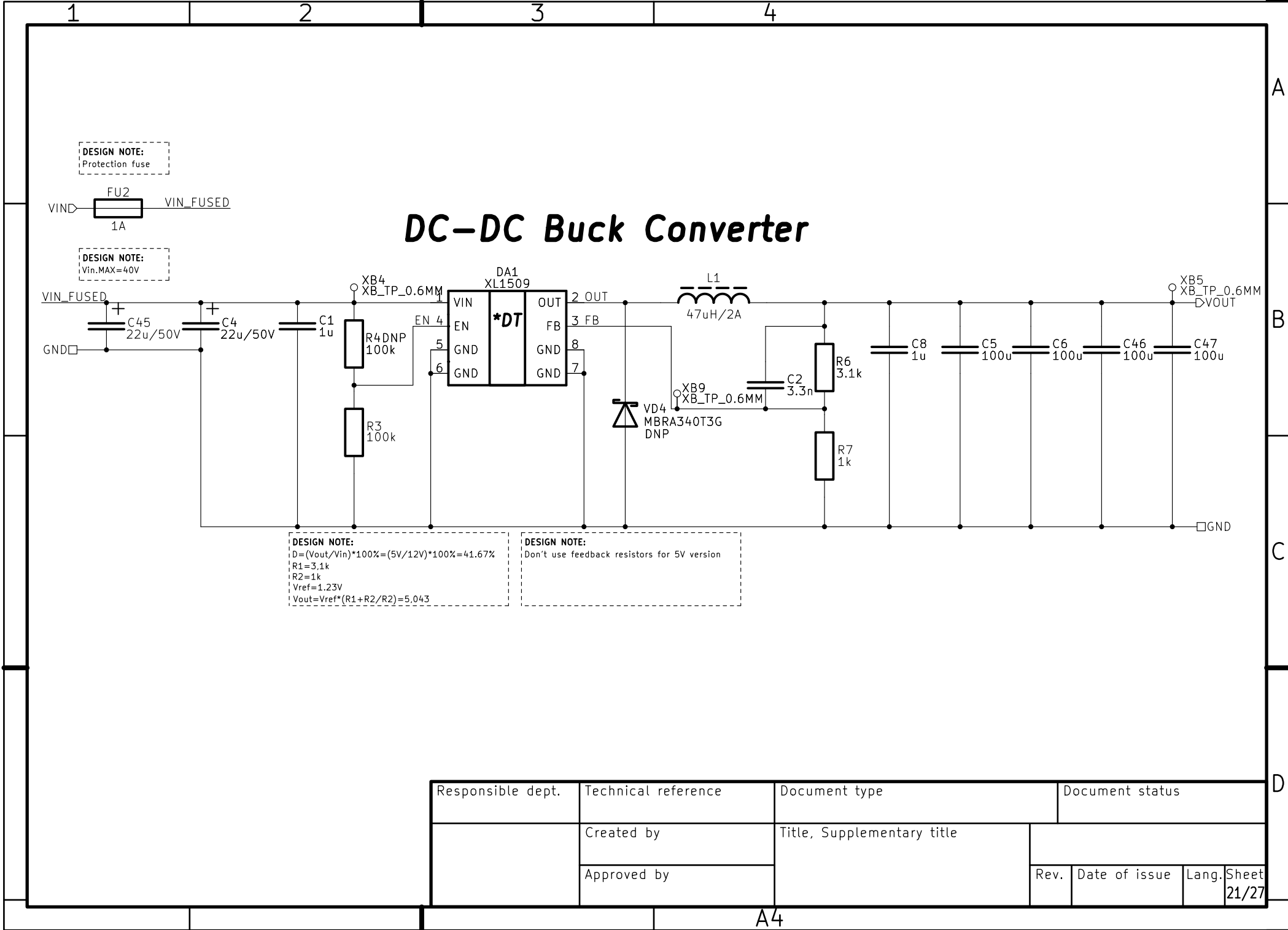
High-speed Crystal



Flashing (ICSP)



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A

B

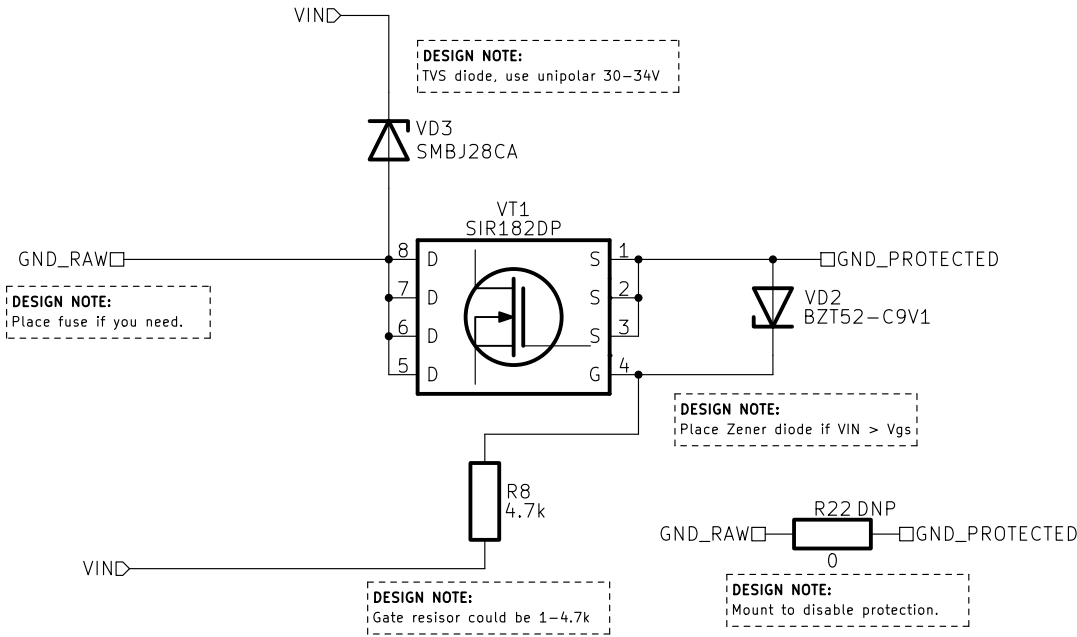


D



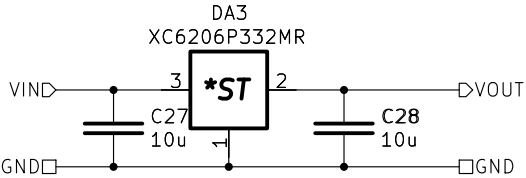
A4

Reverse Polarity Protection



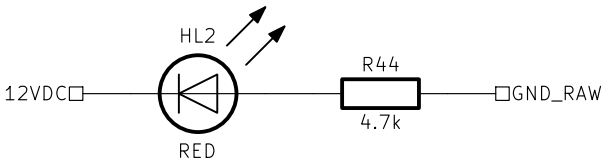
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Voltage Regulator 3.3V 0.2A

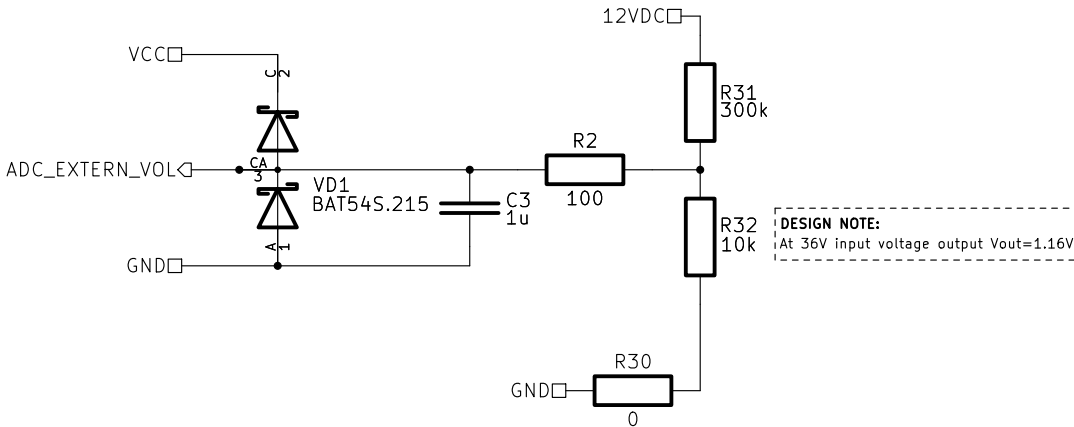


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Power Indicator



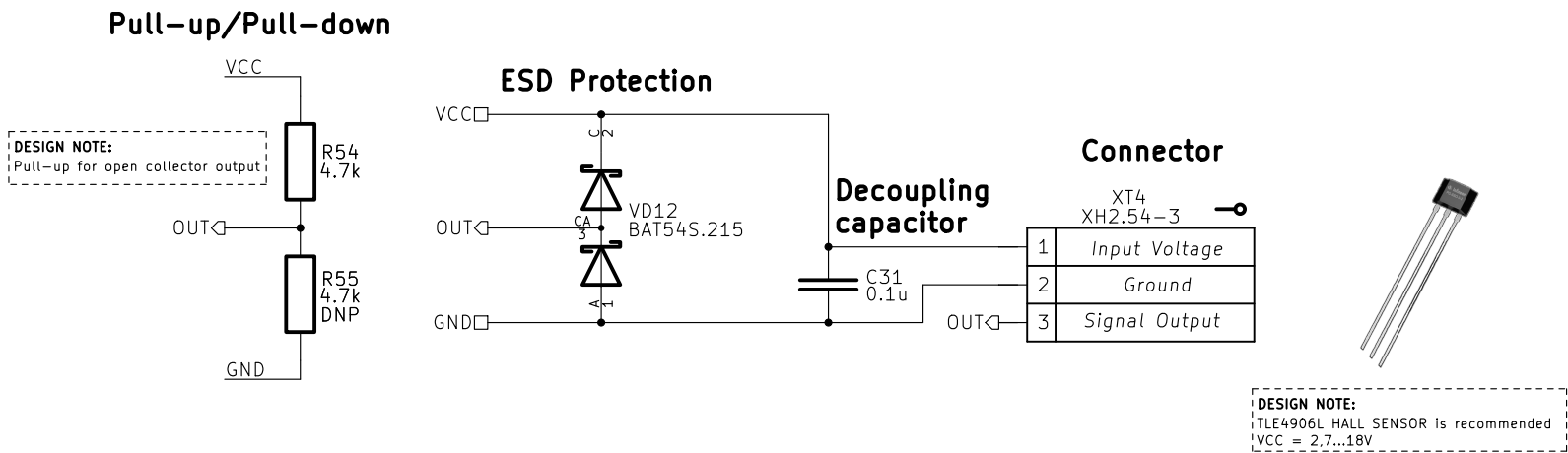
External Supply Voltage Divider



DESIGN NOTE:
At 36V input voltage output Vout=1.16V

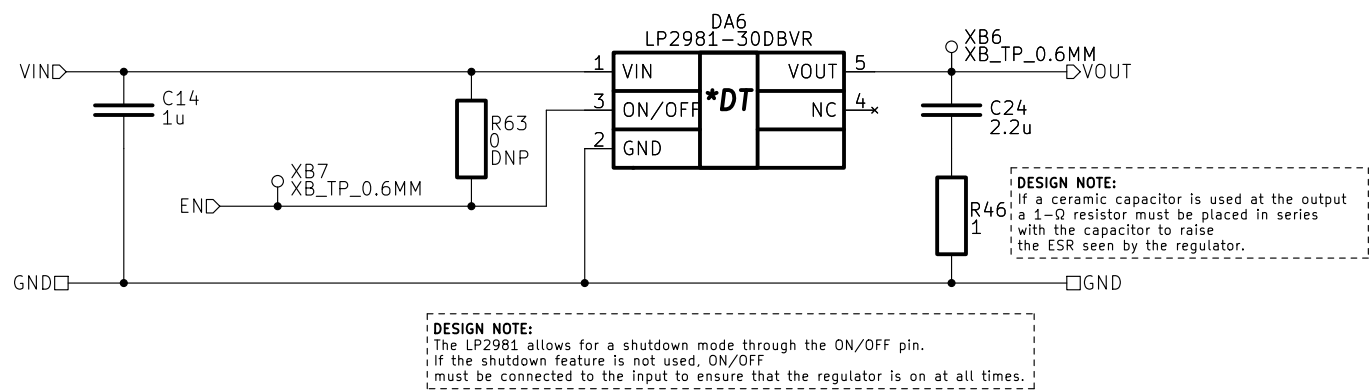
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Sensor Connector



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Voltage Regulator 3.0V 0.2A



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Mounting Holes

×1  J1
Spacer M2

×1  J2
Spacer M2

×1  J3
Screw M2

×1  J4
Screw M2

×1  J5
Screw M2

×1  J6
Screw M2

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