

DESIGN CONSIDERATIONS

DESIGN NOTE:  
Example text for informational  
design notes.

DESIGN NOTE:  
Example text for critical  
design notes.

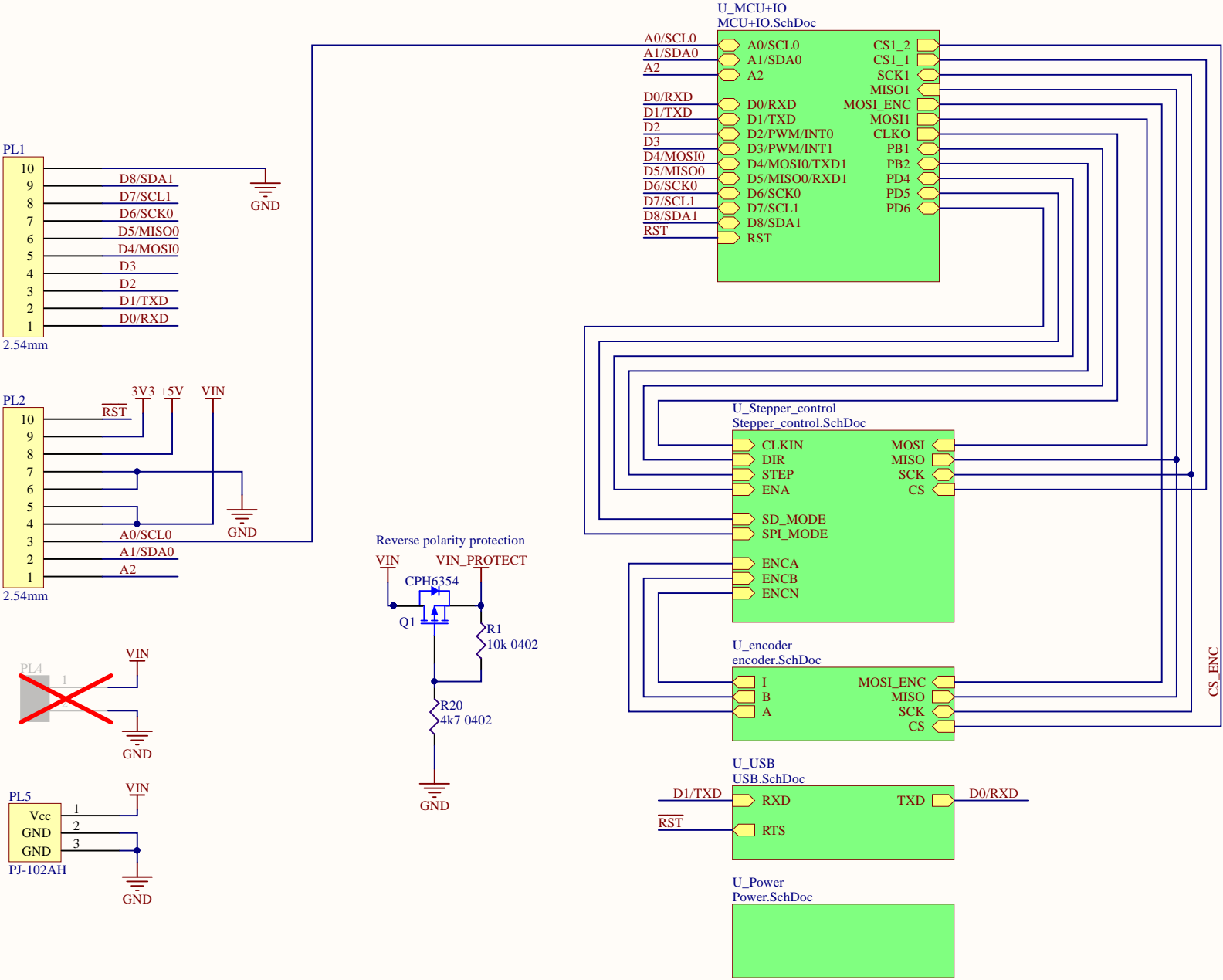
DESIGN NOTE:  
Example text for cautionary  
design notes.

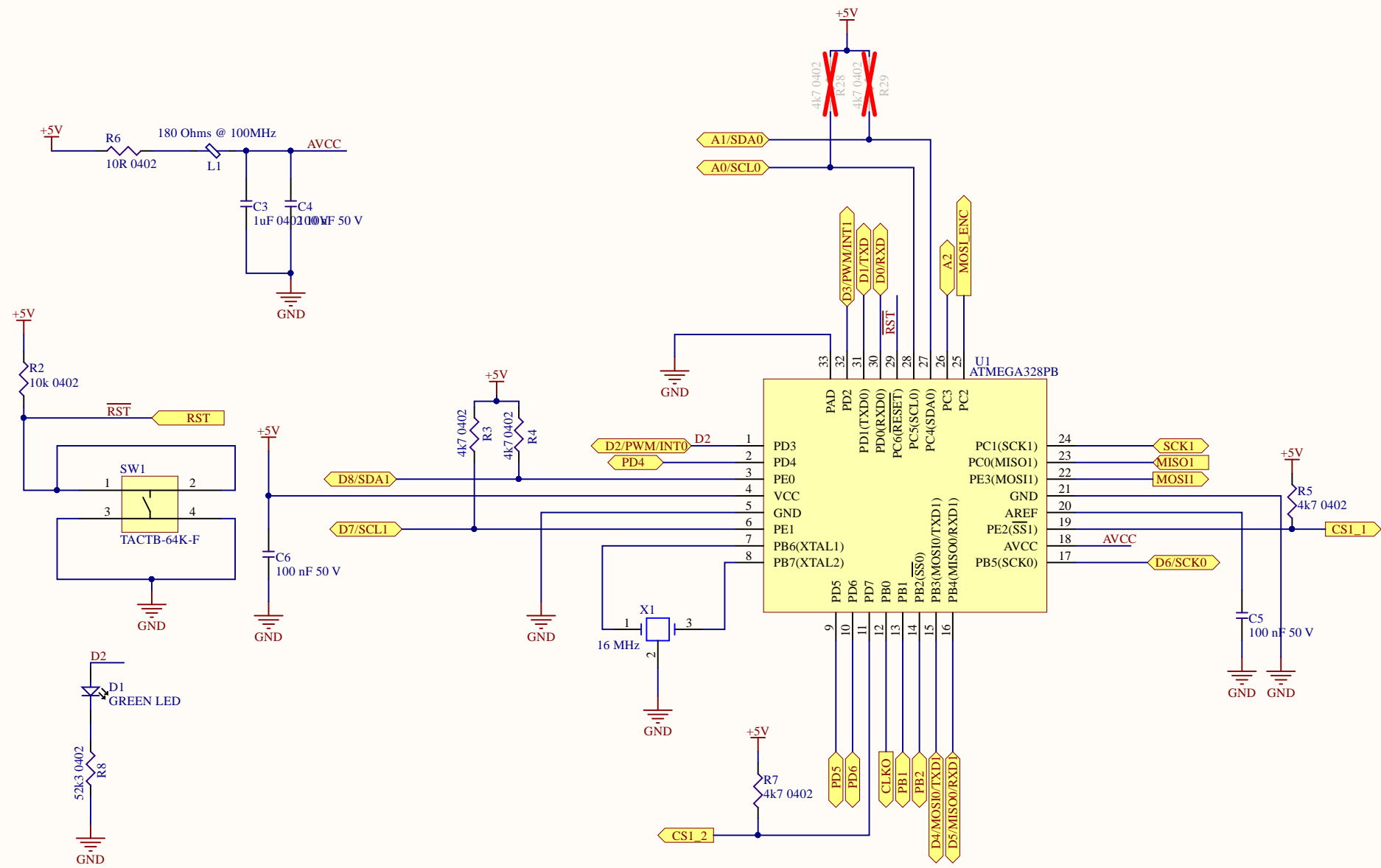
LAYOUT NOTE:  
Example text for critical  
layout guidelines.

DESIGN NOTE:  
Example text for debug notes.

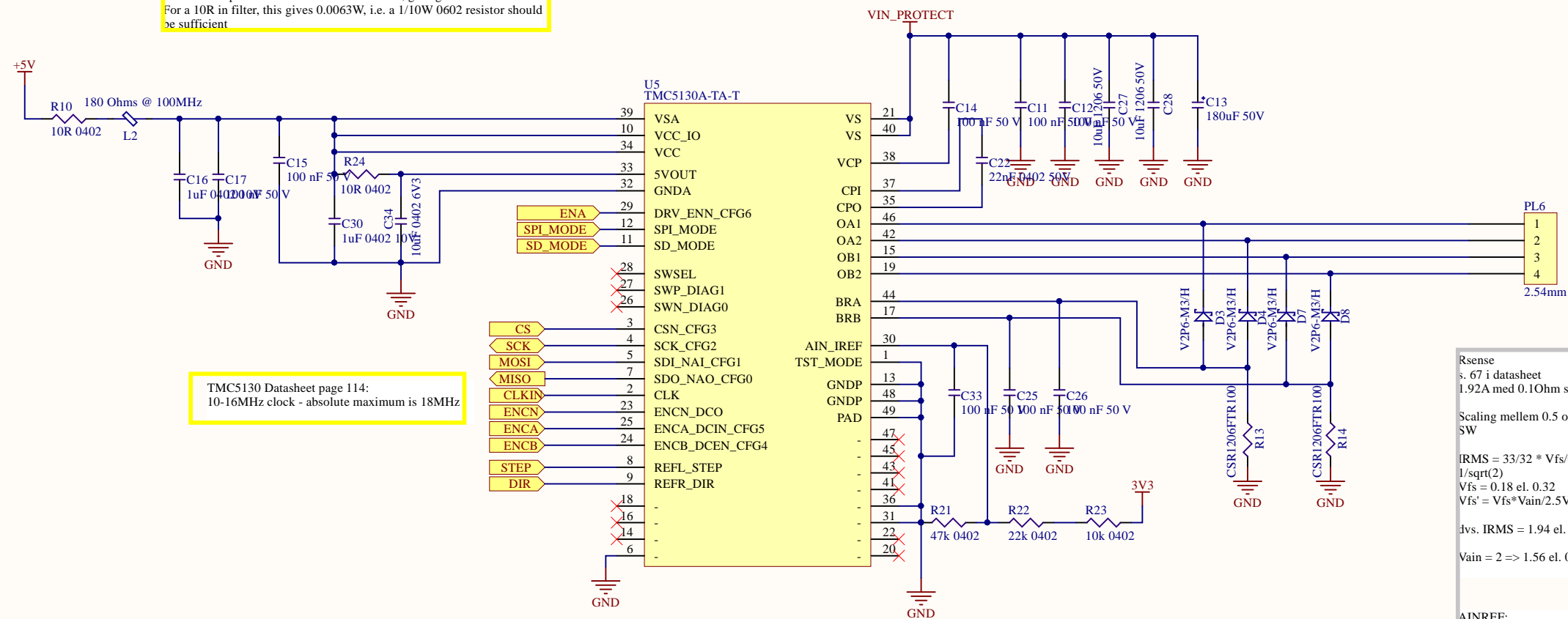
U\_Main  
Main.SchDoc

ON Development		
Title: uStepper S		
Size: A3	Drawn By: Mogens Groth Nicolaisen	
Date: 16/12/2018	Sheet 1 of 7	Revision: *





# Stepper Control



Rsense  
s. 67 i datasheet  
1.92A med 0.10Ohm sense

Scaling mellem 0.5 og 1 \* IRMS i SW

$IRMS = 33/32 * Vfs/0.12 * 1/\sqrt{2}$   
 $Vfs = 0.18$  el. 0.32  
 $Vfs' = Vfs * Vain/2.5V$

dvs.  $IRMS = 1.94$  el. 1.09

$Vain = 2 \Rightarrow 1.56$  el. 0.88

AINREF:  
s. 66 i datasheet  
Enten en fast værdi omkring 2V eller en PWM/potmeter til justering

## ON Development

Title: Stepper Control

Size: A3

Drawn By: Mogens Groth Nicolaisen

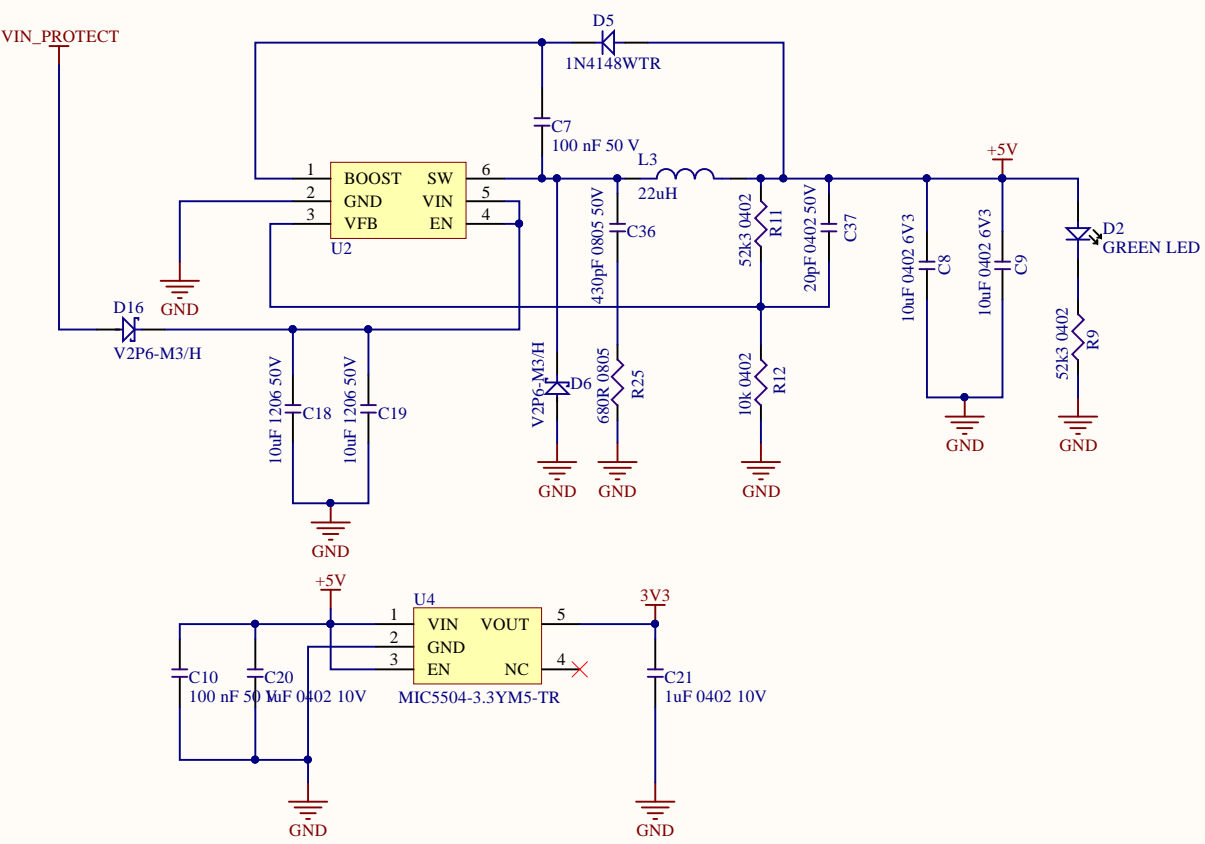
Date: 16/12/2018
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Sheet 4 of 7	Revision: 1.0
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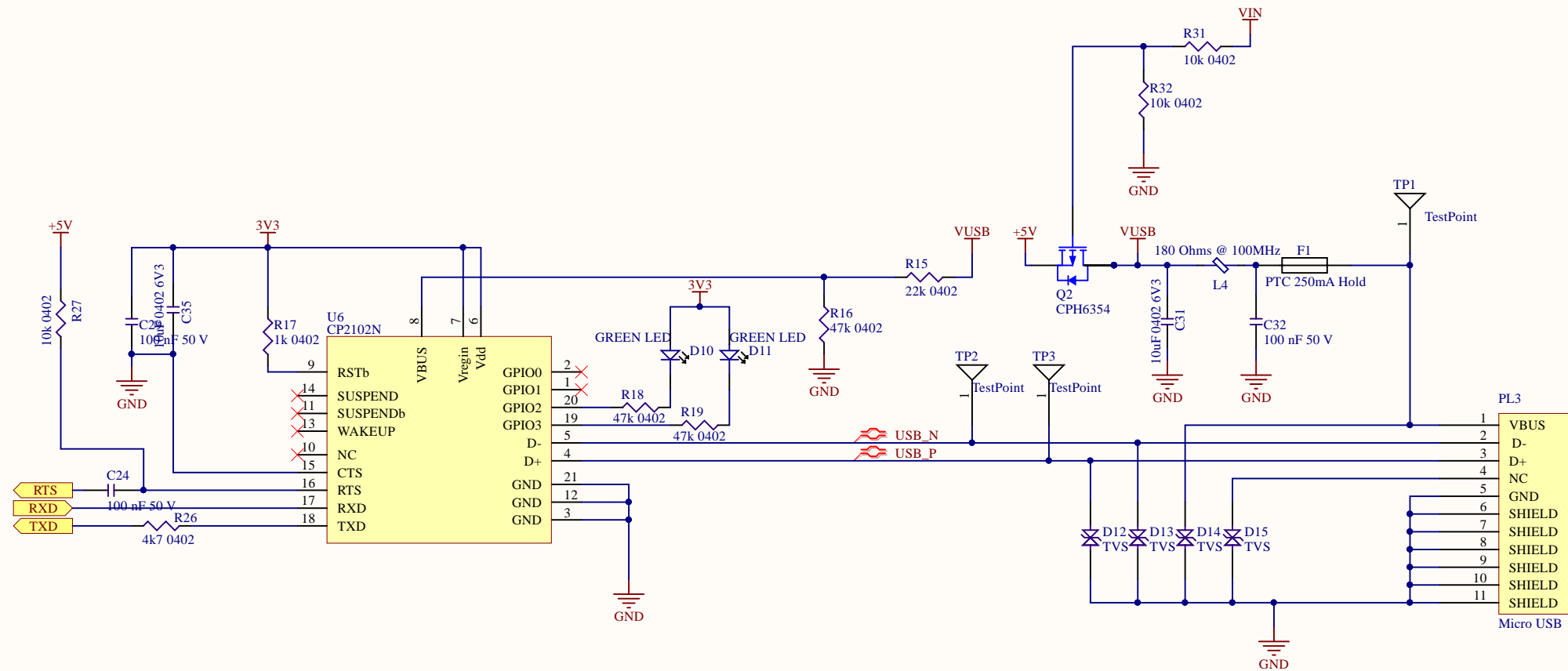
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Power



## USB interface



Encoder

