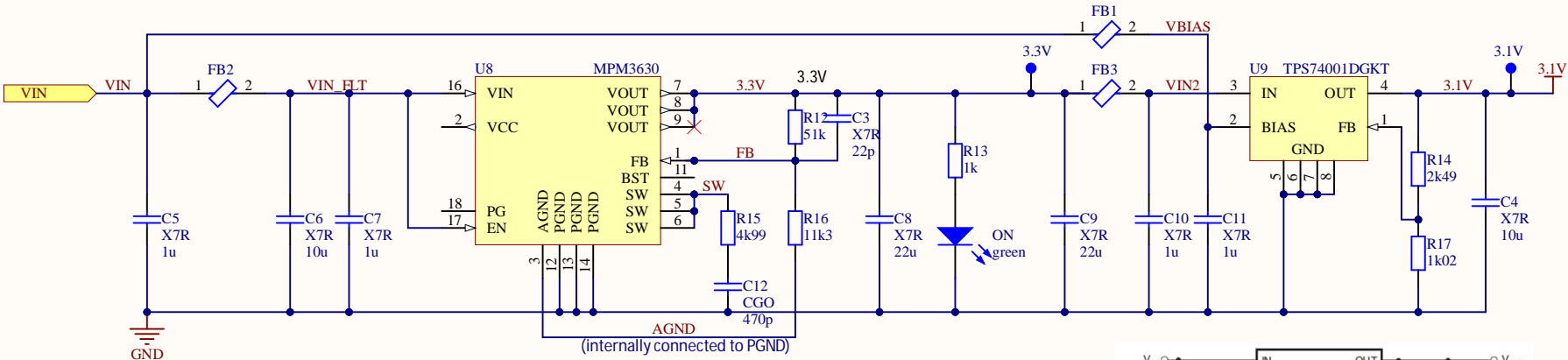




**SI LAB**  
Silizium Labor Bonn



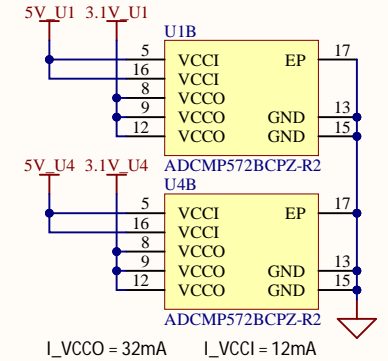
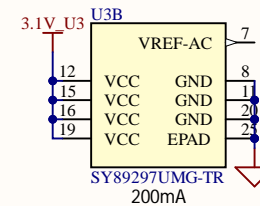
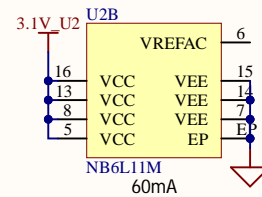
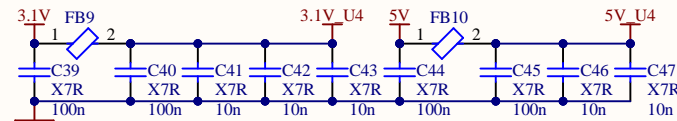
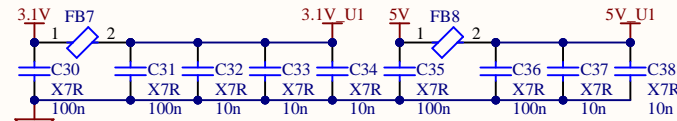
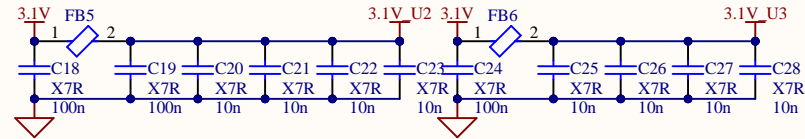
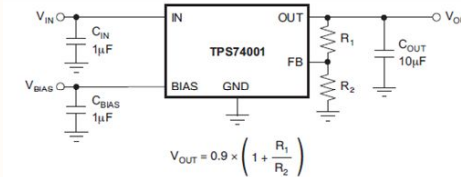
$$R2 = \frac{R1}{\frac{V_{out}}{0.6V} - 1} \quad (2)$$

Figure 7: Feedback Network

Table 1 lists the recommended resistor values for common output voltages.

Table 1: Resistor Selection for Common Output Voltages

V <sub>OUT</sub> (V)	R1 (kΩ)	R2 (kΩ)	R3 (kΩ)	C3 (pF)	C <sub>OUT</sub> (μF)
1.0	51	76.8	51		3x22
1.2	51	51	51		3x22
1.5	51	34	51		3x22
1.8	51	25.5	0	22	2x22
2.5	51	16	0		2x22
3.3	51	11.3	0		2x22
5	51	6.98	0		2x22



Title: Power Supply

Project: Pulse Sampler

Date: 22/03/2022 Time: 15:31:59

File: Power.SchDoc

Drawn by: HK  
Revision: 1.0  
Sheet 2 of 2



Physikalisches Institut  
Universität Bonn  
Nußallee 12  
53115 Bonn



GND



Silizium Labor Bonn

Rev 1.0 HK 1/2022



Embedded  
System  
Lab

Pulse  
Sampler

TRG

R7

U30  
U35  
C19  
C21

C23  
C20  
C22

U3  
C24  
C27  
C28  
C29  
C30  
C31  
C32  
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C6  
C5  
C4  
C3  
C2  
C1



PULSE

VTNR

COMP

SPI

ON

3.3V

3.1V