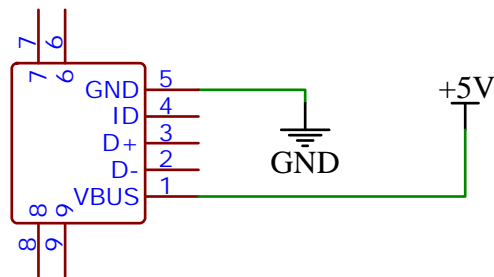
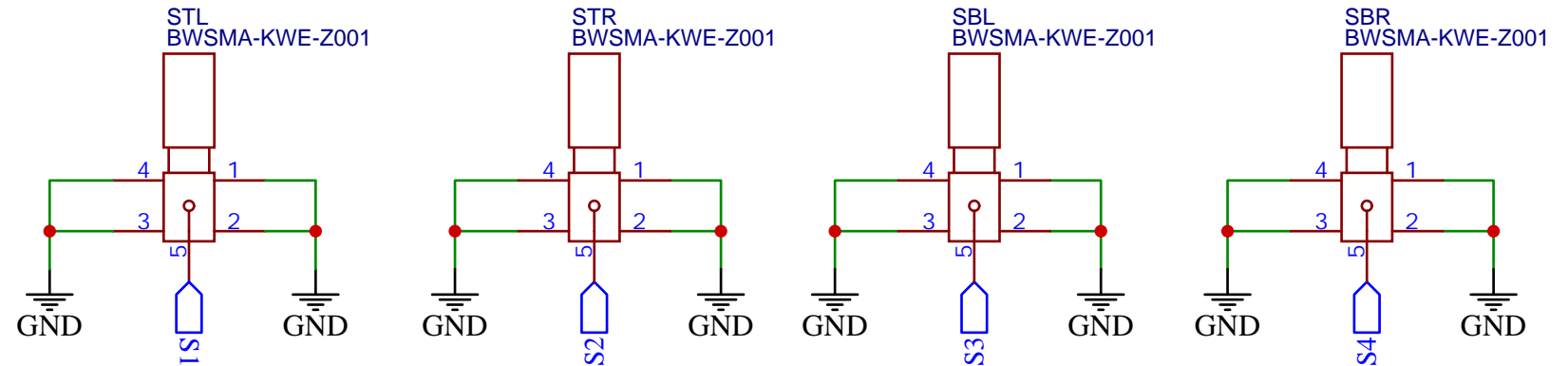


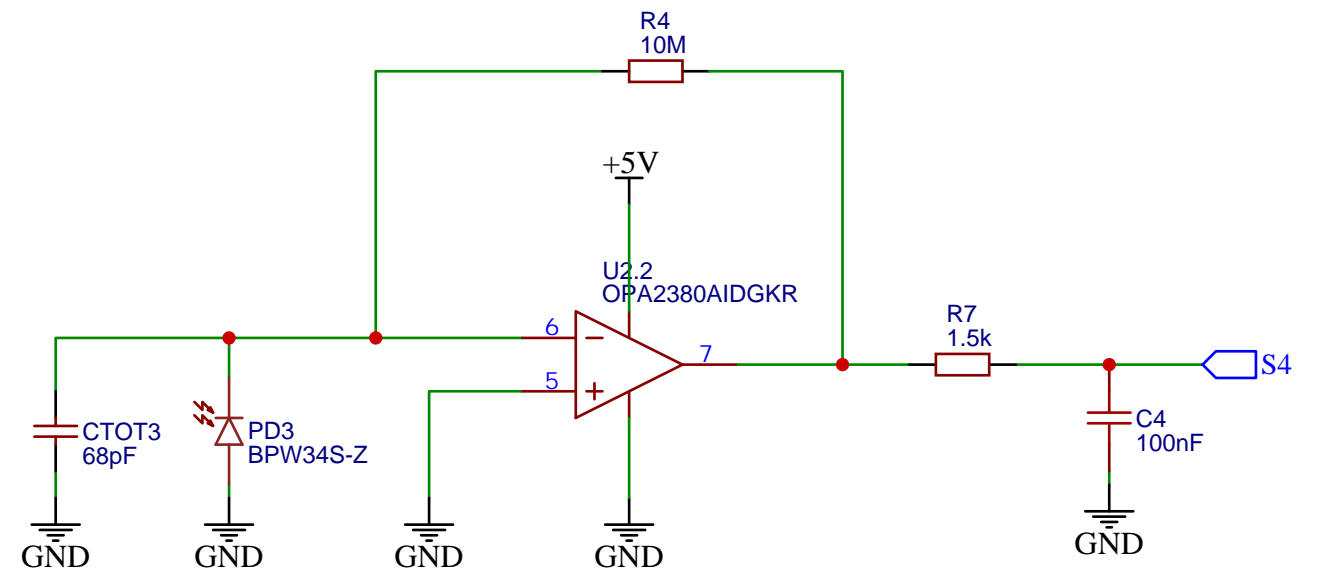
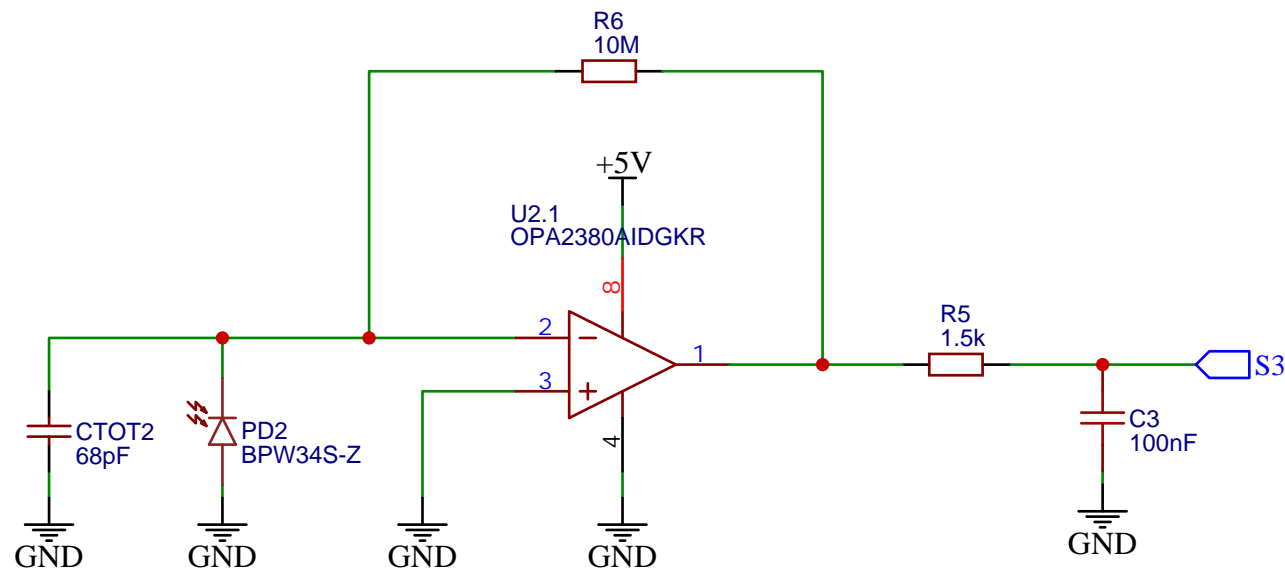
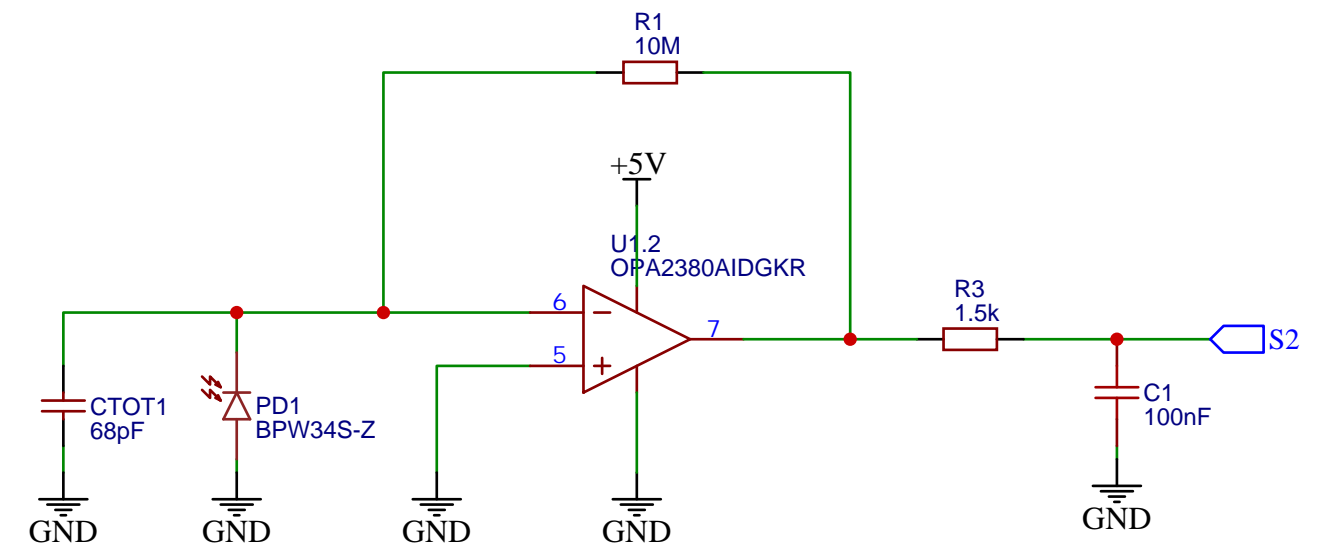
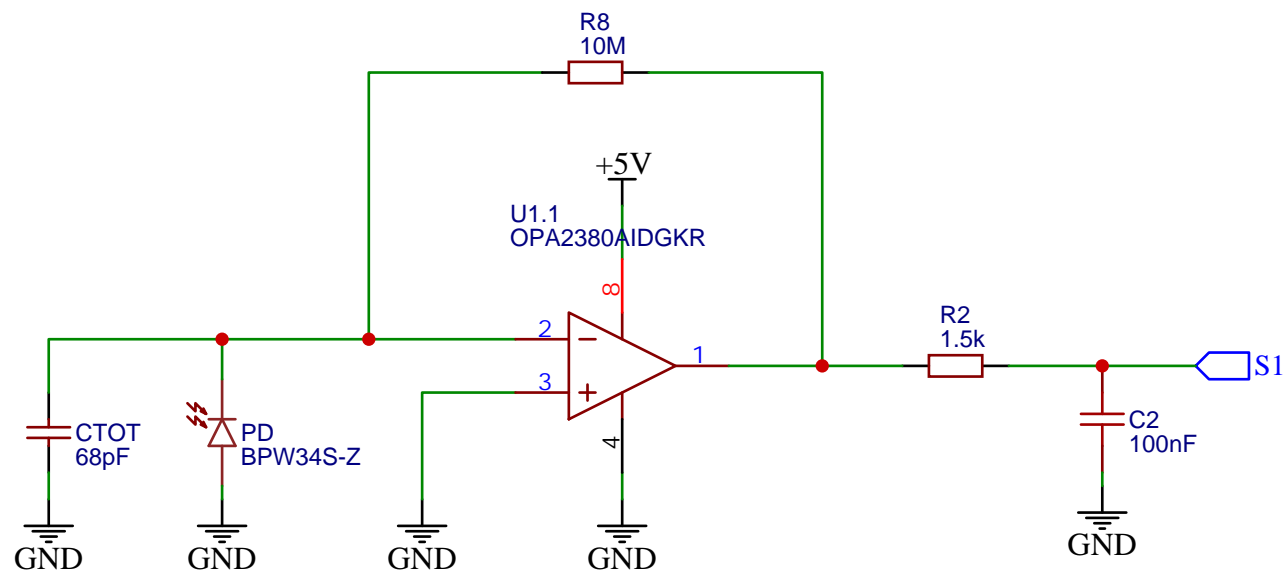
5VDC
Micro USB 5P H



Power connector



Signal connectors



The total input capacitance (CTOT), consisting of the photodiode capacitance (CDIODE) plus the parasitic common-mode and differential-mode input capacitance (3pF + 1.1pF for the OPA380);

$CTOT(3pF + 1.1pF \text{ for the OPA380}) + 72 pF \text{ of the Photodiode capacitance} = 76pF$

$R_{fmax} = V_{out}/I_p = 5V/200uA = 25k$

An alternative would be using a 82 pF (Extended part) 68pF is a Basic part

$R_{fmin} = V_{out}/I_p = 5V/500nA = 10M$

TITLE: 4x photodiode		REV: 1.0
嘉立创EDA	Company: Making STP	Sheet: 1/1
	Date: 2023-09-01	Drawn By: xaviercanoferrer