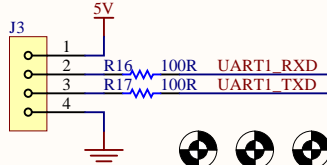
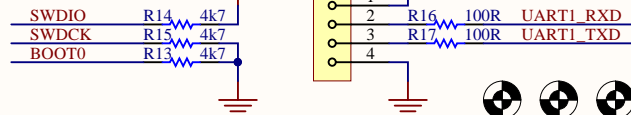
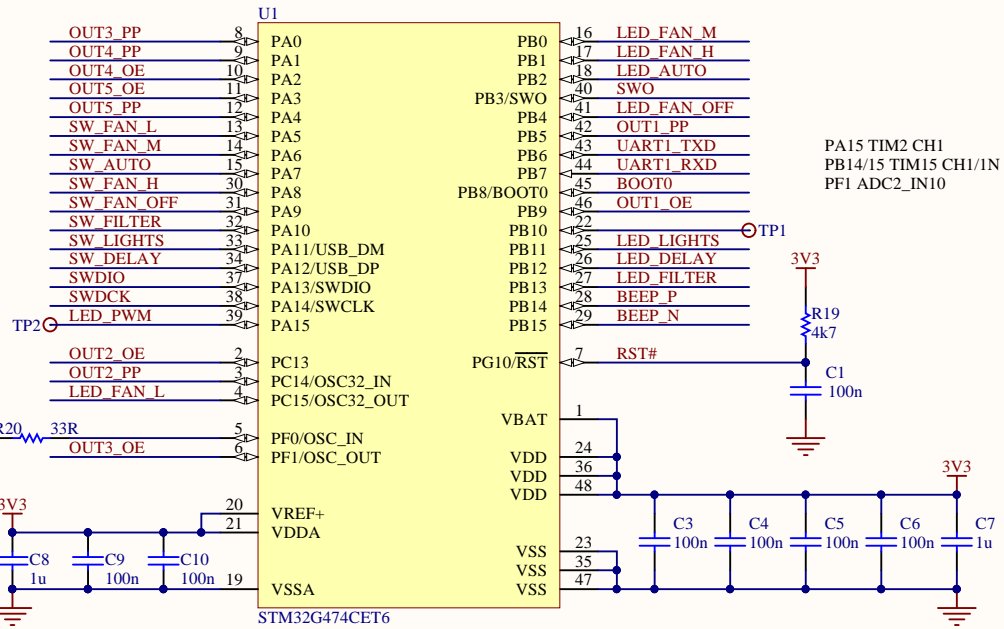
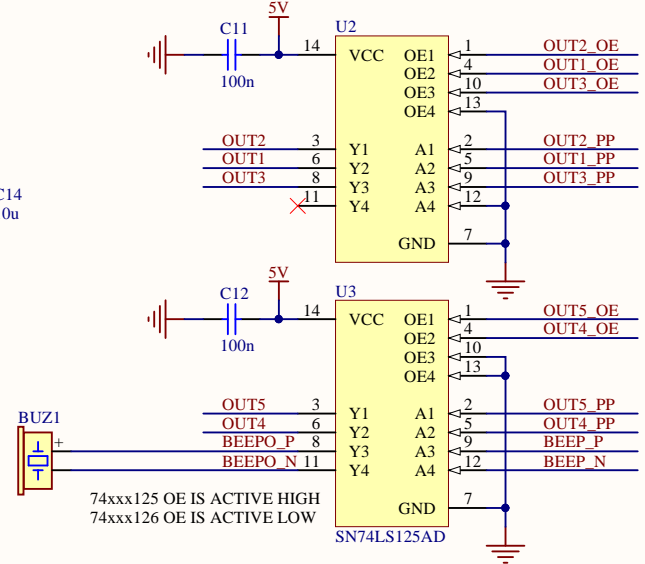
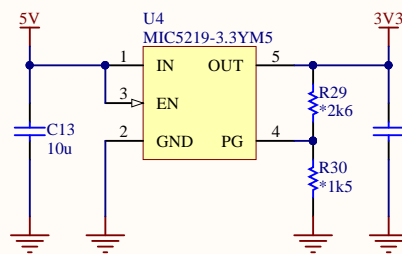


BLUE LED Vf ~3V
NPN Vbe ~0.7V
 $R = V/I = 0.7 / .005$
 $R = 70\Omega$

$$\begin{aligned} \text{PR} &= \text{VI} = 0.7 * .005 = 4\text{mW} \\ \text{PQ} &= \text{VI} = (5 - 3 - .7) * .05 = 7\text{mW} \\ \text{PD} &= \text{VI} = 3 * .005 = 15\text{mW} \end{aligned}$$


Title		
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