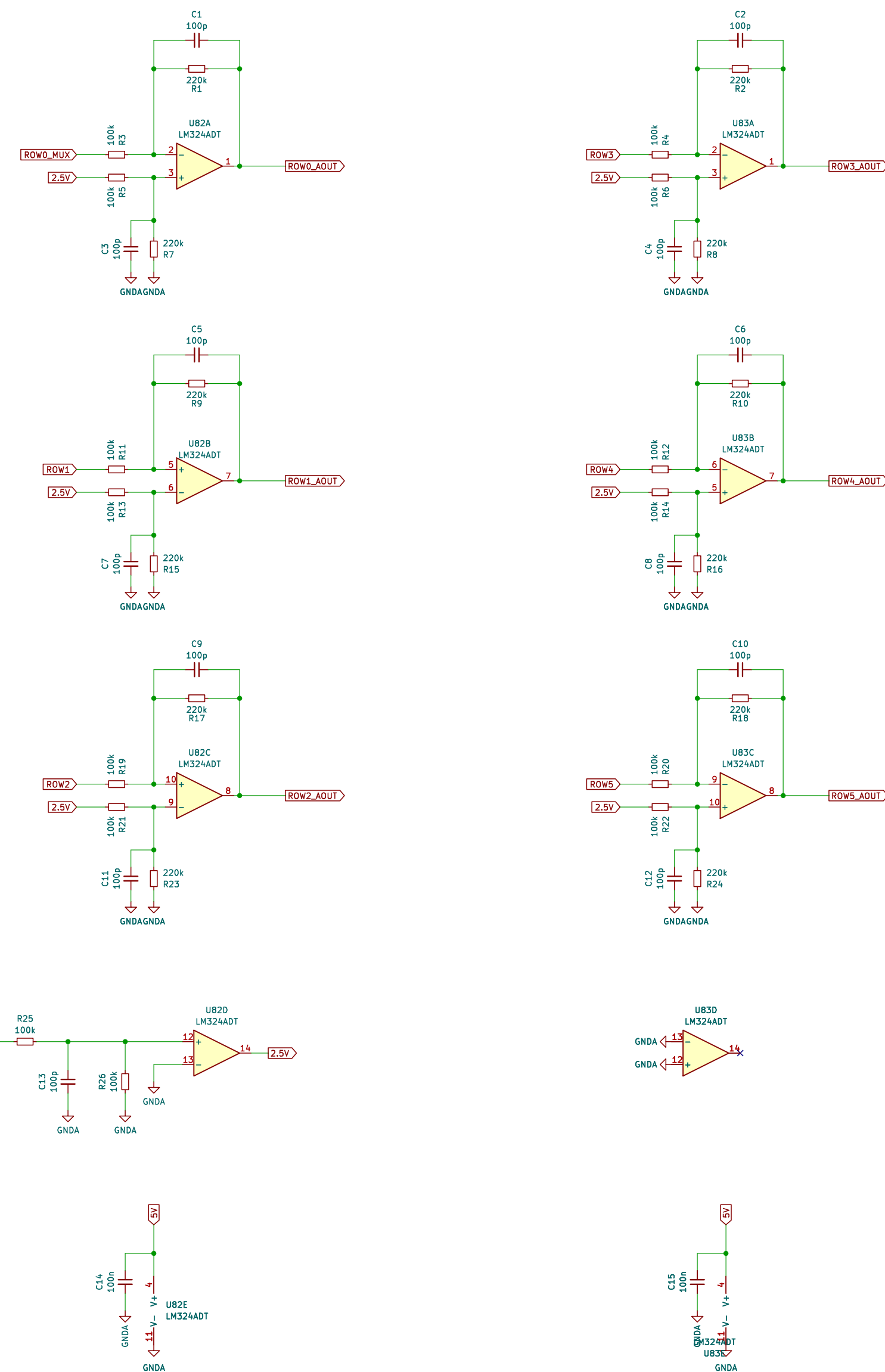
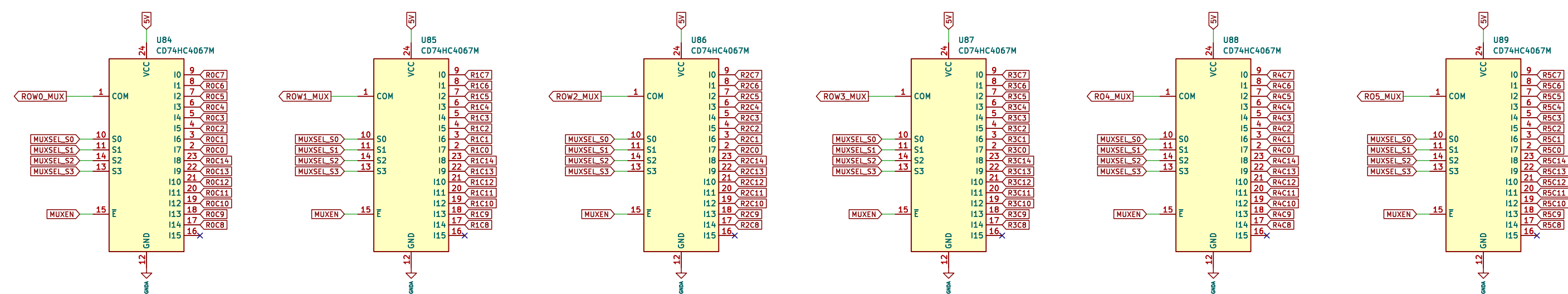
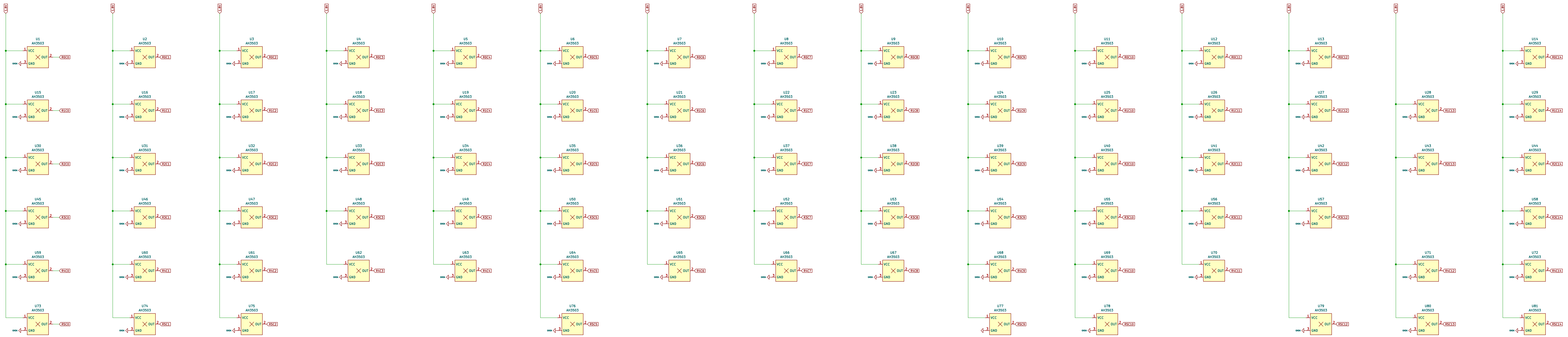


## SENSORS



Rated sensitivity of AH3503: 14mV/mT  
Maximum magflux at bottom: 985Gs as per Gateron datasheet (round to 1000G = 100mT)  
Minimum magflux of nonpressed switch: 876Gs (round to 80G = 8mT)  
Therefore max voltage at bottom out =  $2.5 - 1.4 = 1.1V$   
Minimum voltage at nonpressed =  $2.5 - 0.112 = 2.388V$

Opamp removes this signal from 2.5 and applies the difference by 2.2, so  
Maximum voltage at bottom out:  $2.2 * (2.5 - 1.1) = 3.08V$   
Minimum voltage at nonpressed:  $2.2 * (2.5 - 2.388) = 0.2464V$