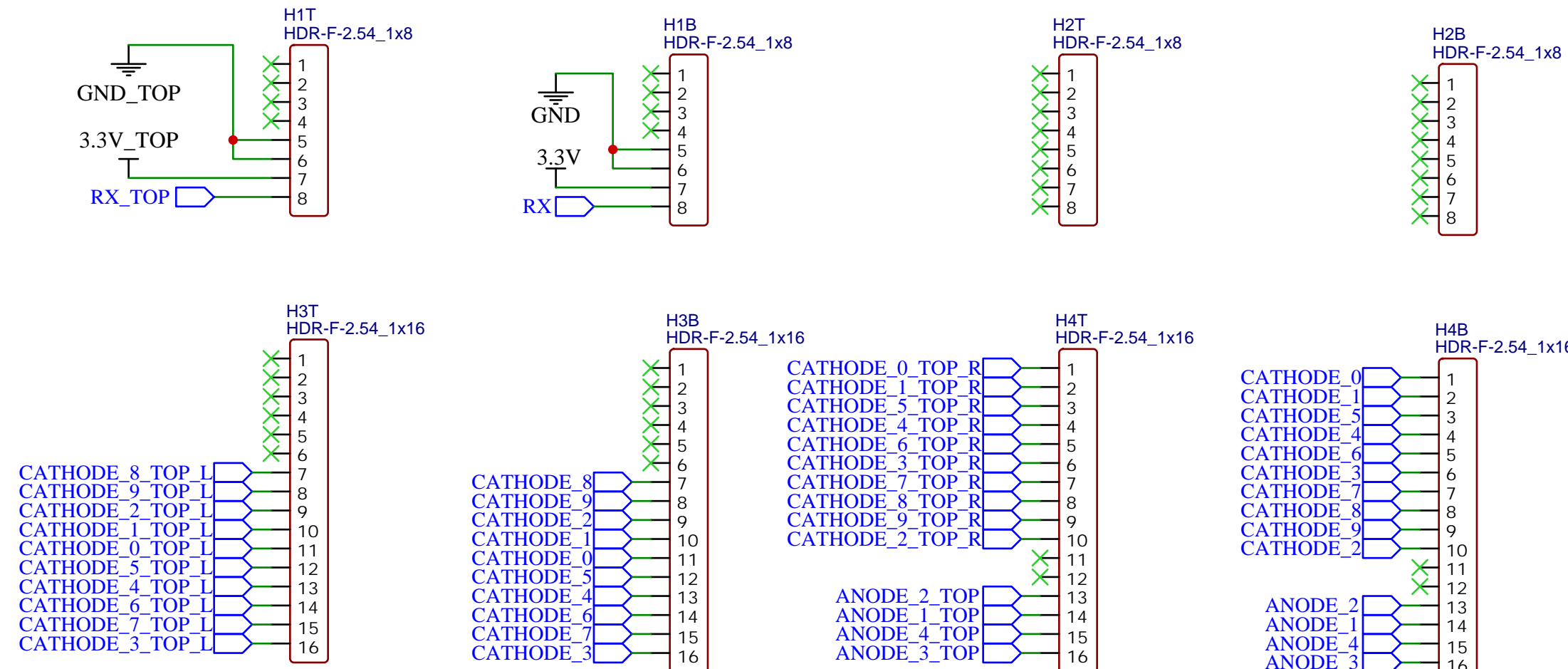
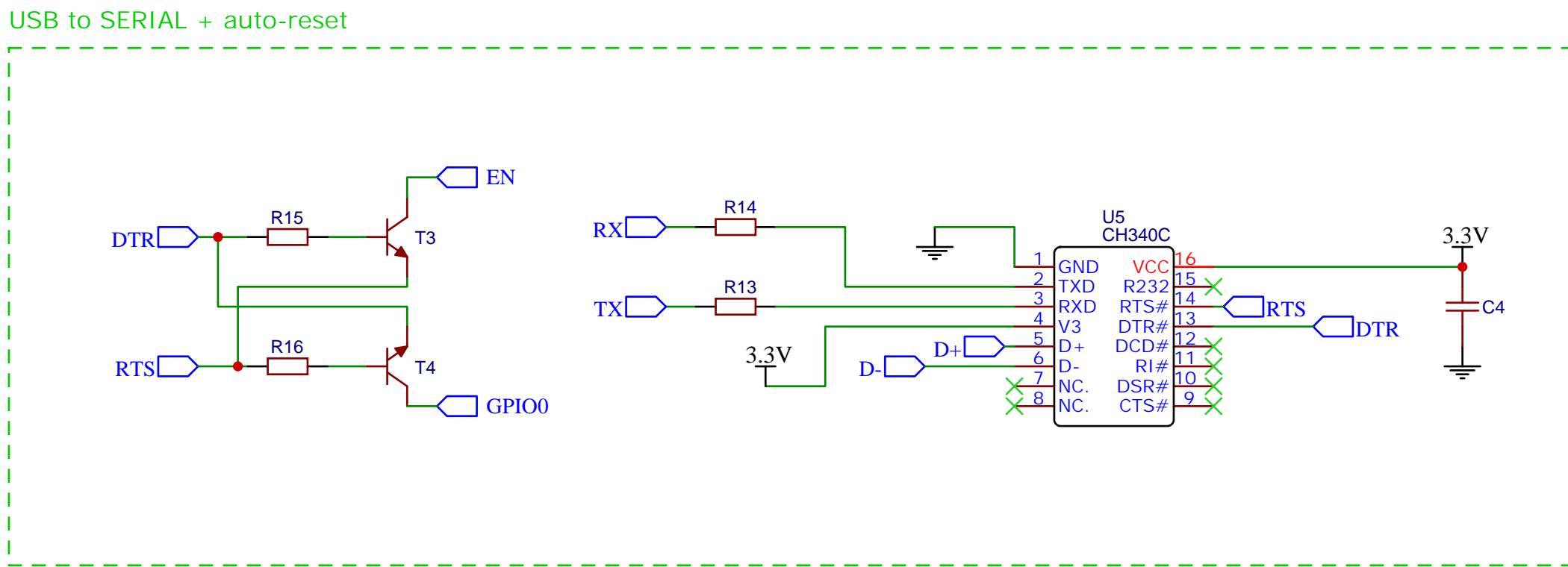
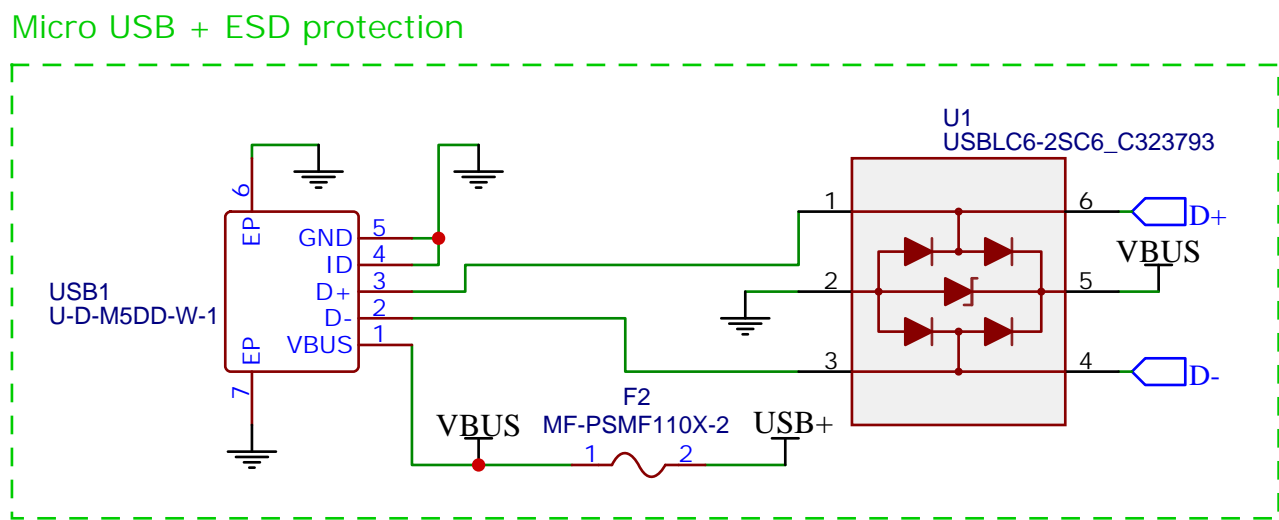
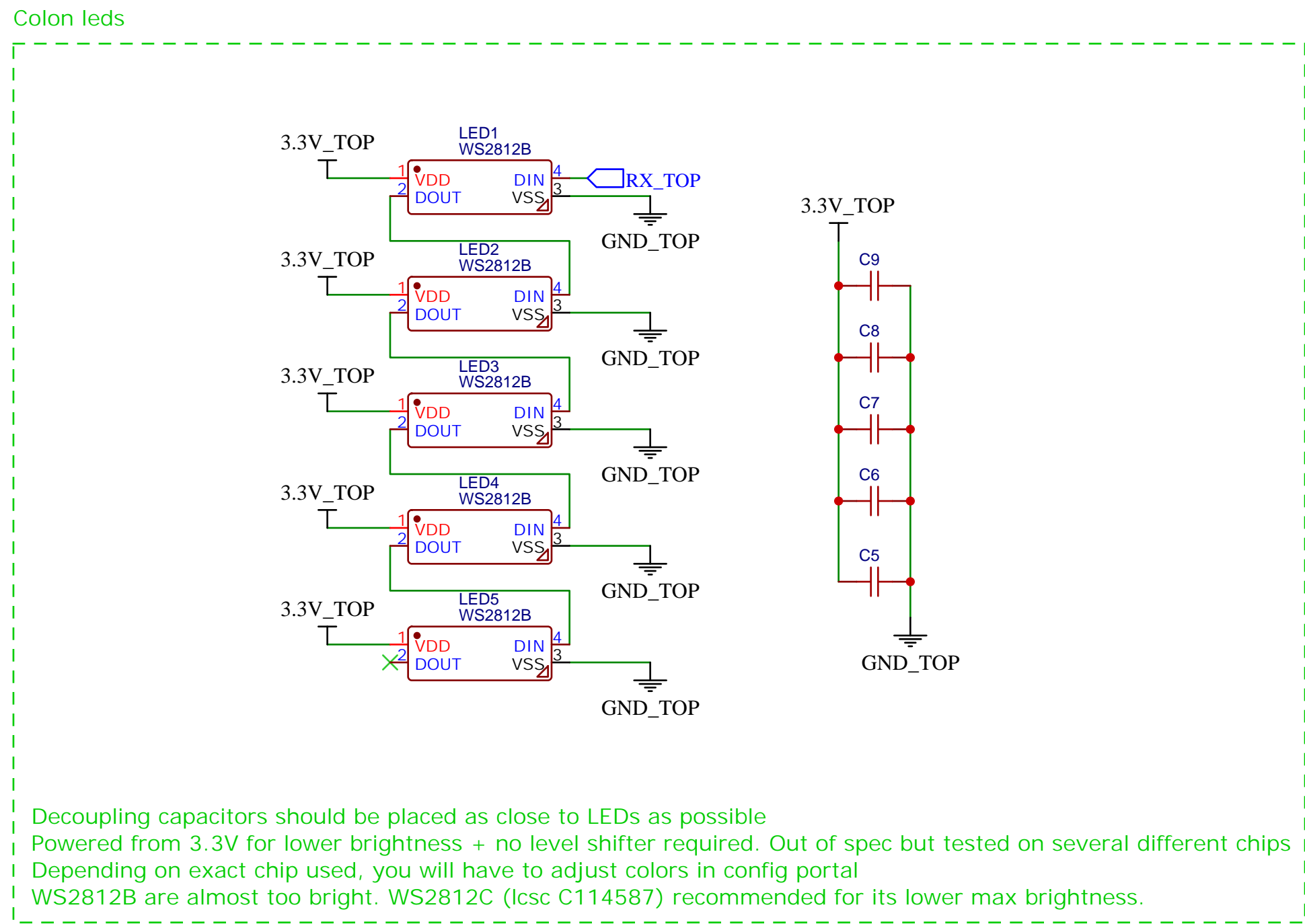


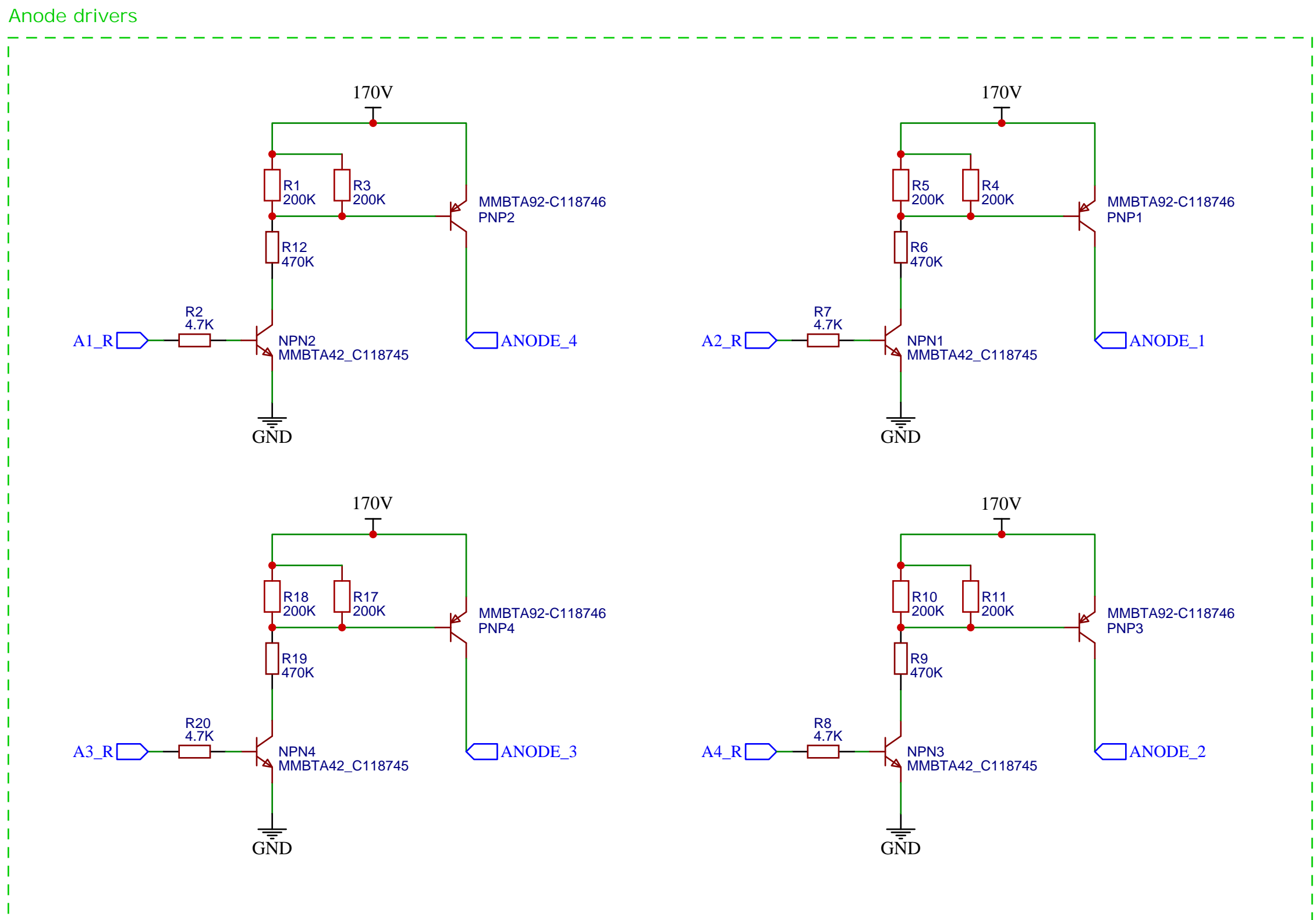
100uF should work fine



4x male and 4x female 16pin header is required



Decoupling capacitors should be placed as close to LEDs as possible  
Powered from 3.3V for lower brightness + no level shifter required. Out of spec but tested on several different chips  
Depending on exact chip used, you will have to adjust colors in config portal  
WS2812B are almost too bright. WS2812C (lsc C114587) recommended for its lower max brightness.



These can be replaced with optocouplers (TLP627) but at the expense of lower multiplexing frequency