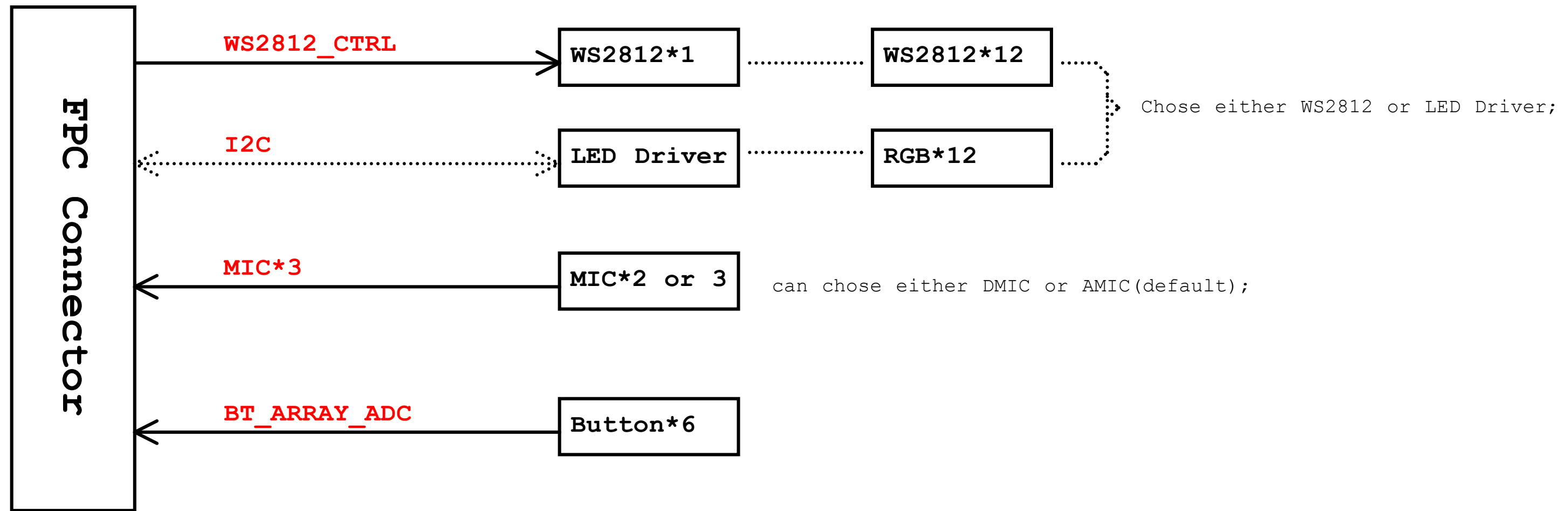
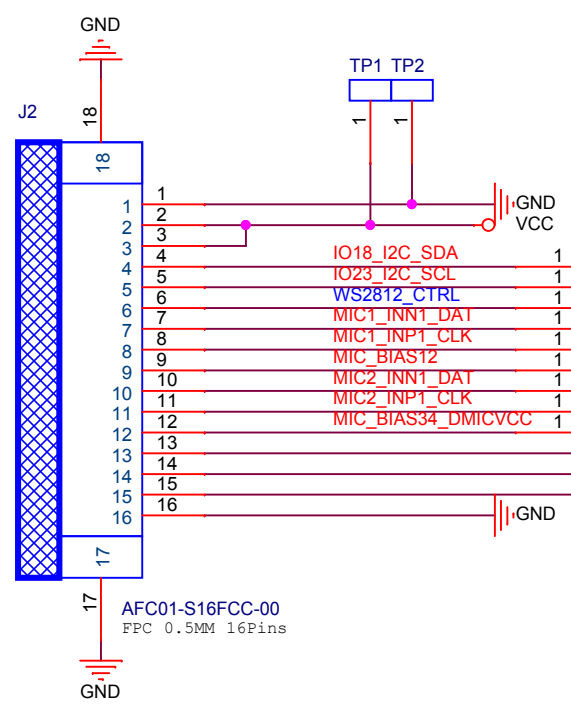


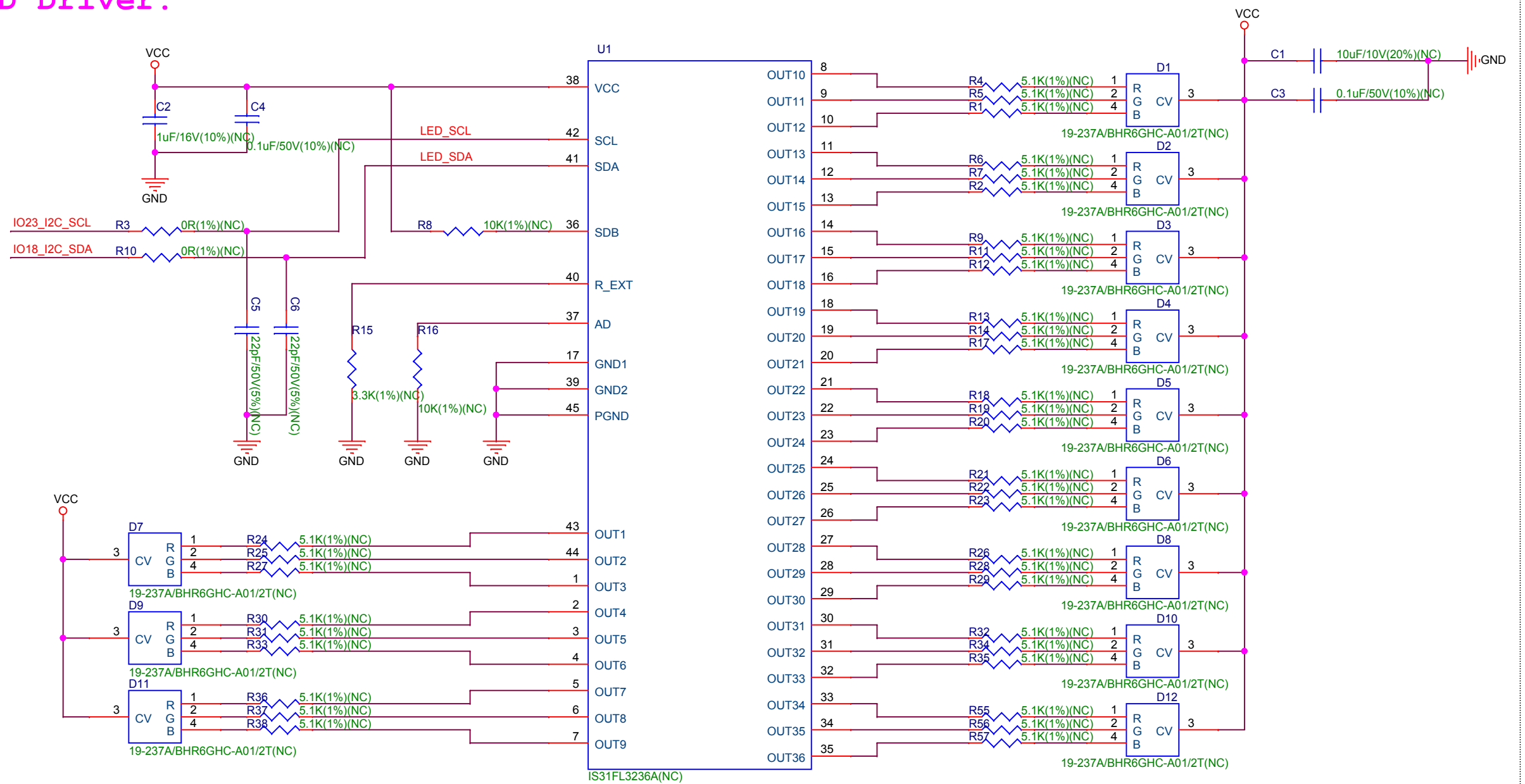
System Block:





Interface Support:
 1) I2C bus: which configure LED Driver, max 12xRGBs;
 2) max 3xPDM MICs;
 3) max 3xAMICs;
 4) max 6xButton Input;
 5) max 12xWS2812 RGBs;

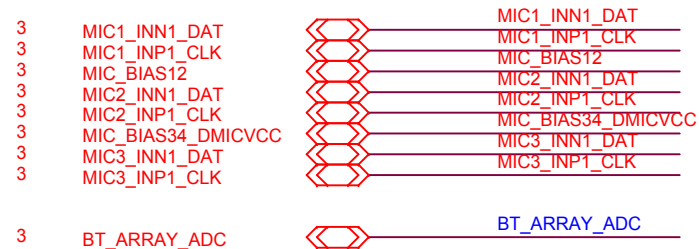
LED Driver:



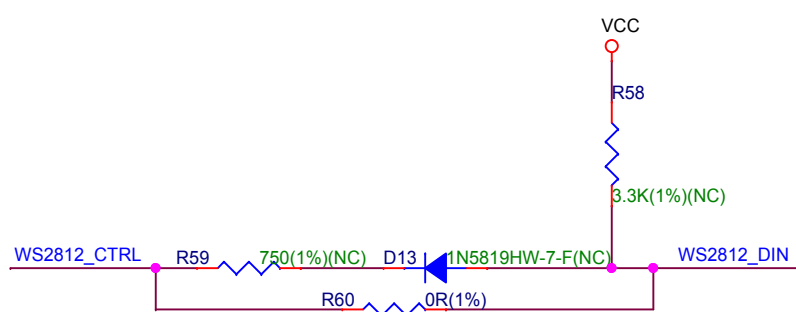
AD=0: I2C slave address:0'b 0111 100x;

Notes:

- Default, we use VCC (power coming from USB or Battery) to power LED Driver and LEDs, thus we can save one Power Regulator.
- I2C of LED Driver is pull-up on the main-board by VDD3V3.
- Pull-up resistor for Button_Array_ADC is populated on main-board.

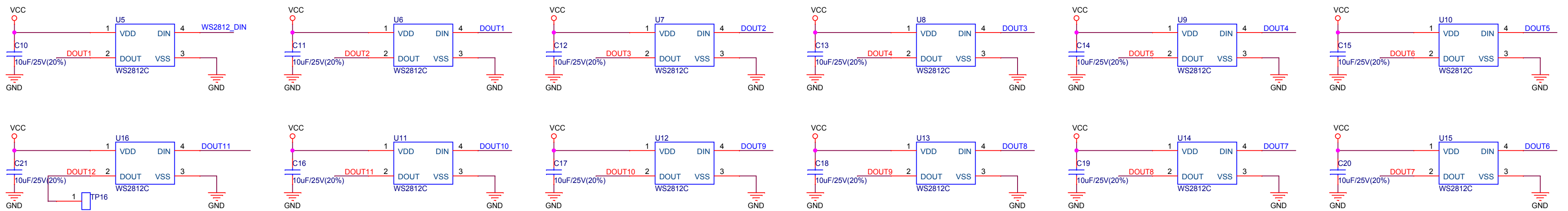


WS2812 RGB:



Notes:

- LED Driver or WS2812 RGBs can be picked one of these two at the same time;
- Stacked Pad will be used to Layout LEDs (for LED Driver) and WS2812 RGBs.
- If VCC=5V (default): R59/D13/R58 ON, R60 NC;
- If VCC=3.3V: R59/D13/R58 NC, R60 ON;



ESPRESSIF

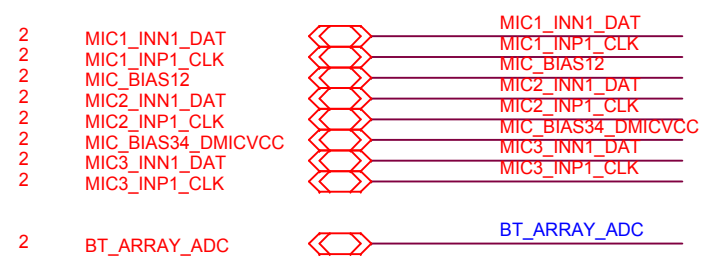
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Title #31025 - ESP32-Korvo-MIC

Size Document Number Rev V1.1

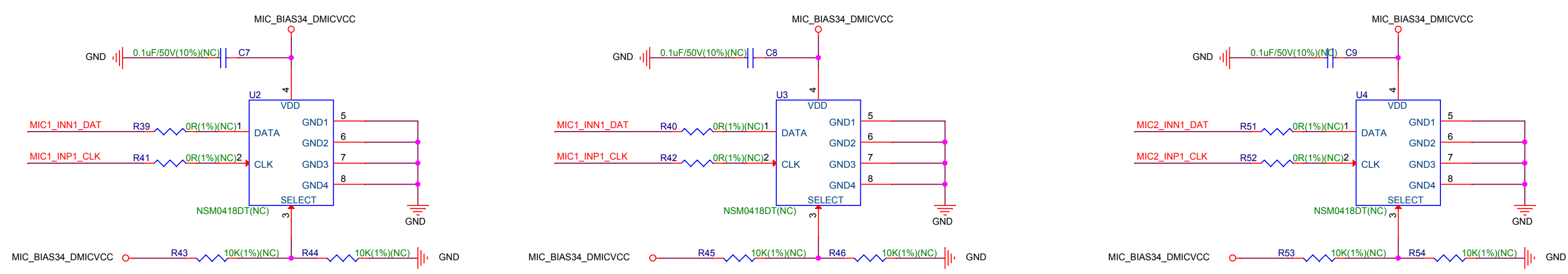
C <02_DMIC_LED_KEY>

Date: Monday, March 16, 2020 Sheet 2 of 3

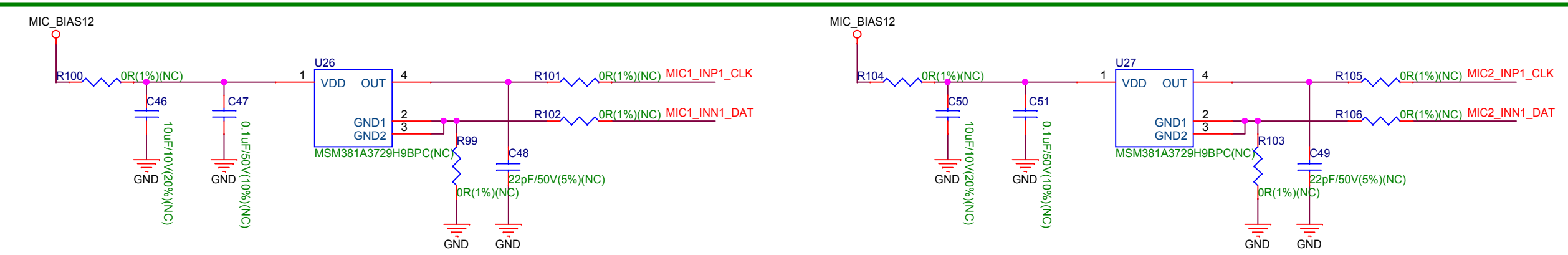


DMIC Array:

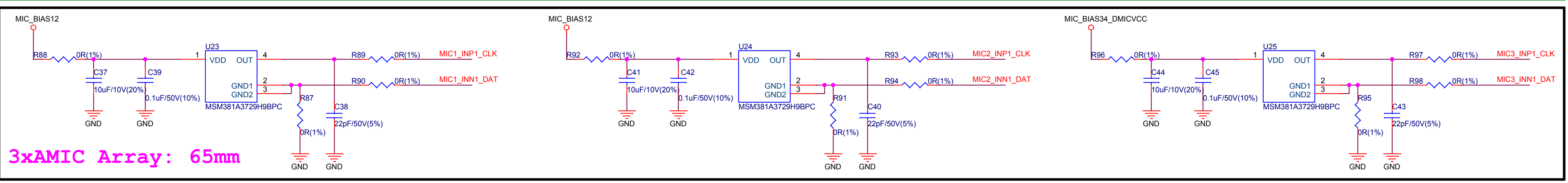
- Notes:
 1. Default: NSM0418DT (NeoMEMS);
 2. Alternative: MSM261D4030H1AP (MEMSensing Microsystems);



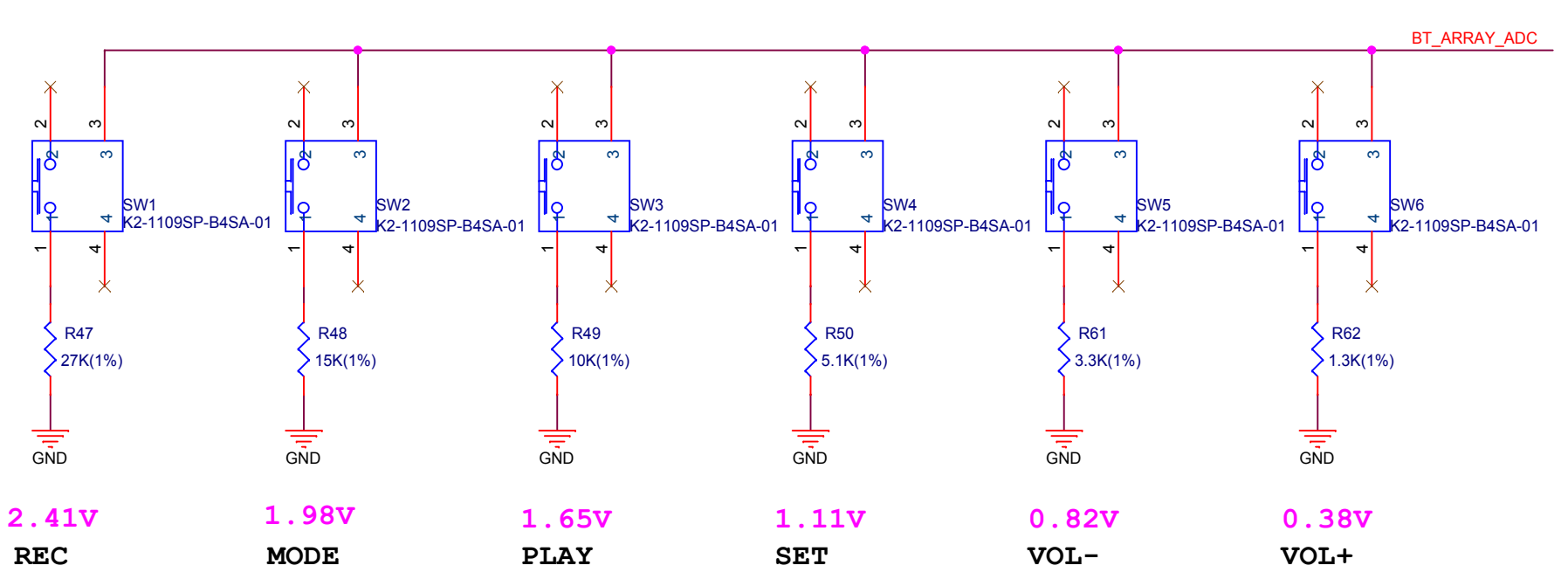
2xAMIC Array: 55mm



3xAMIC Array: 65mm



KEY Array:



Location Holes:

