

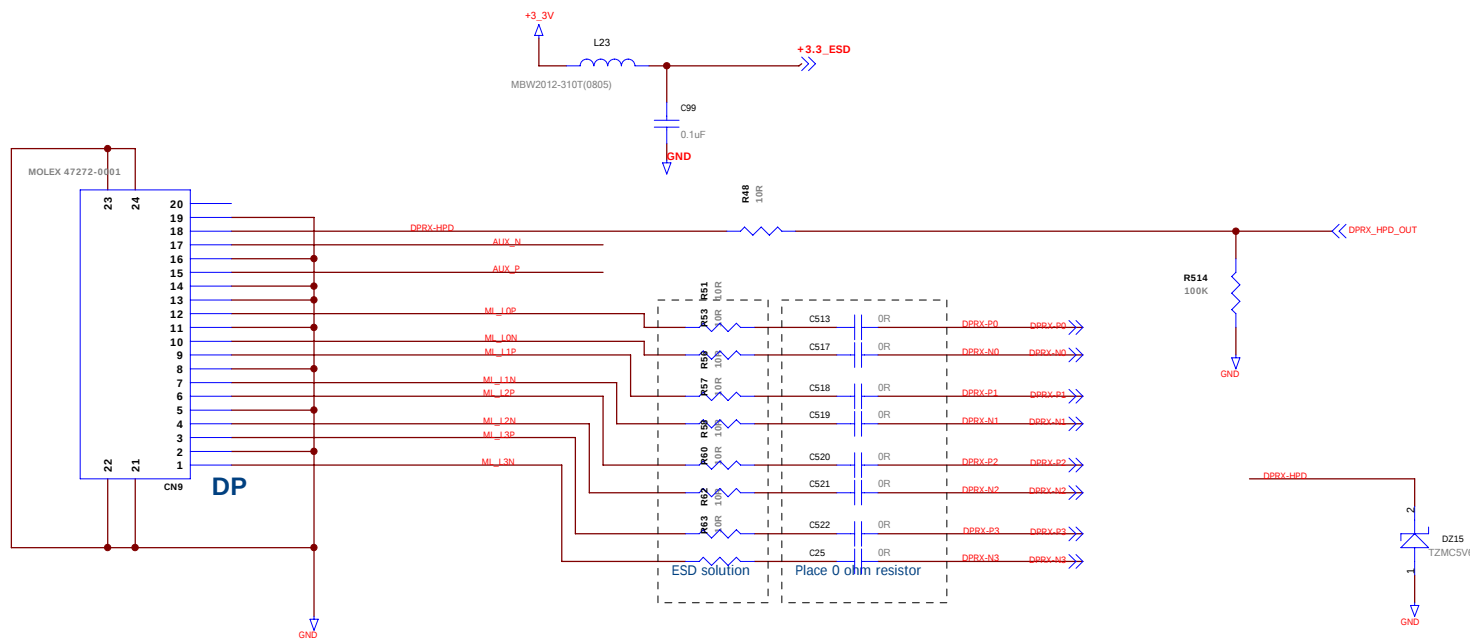
BIGTIDE

技术文件

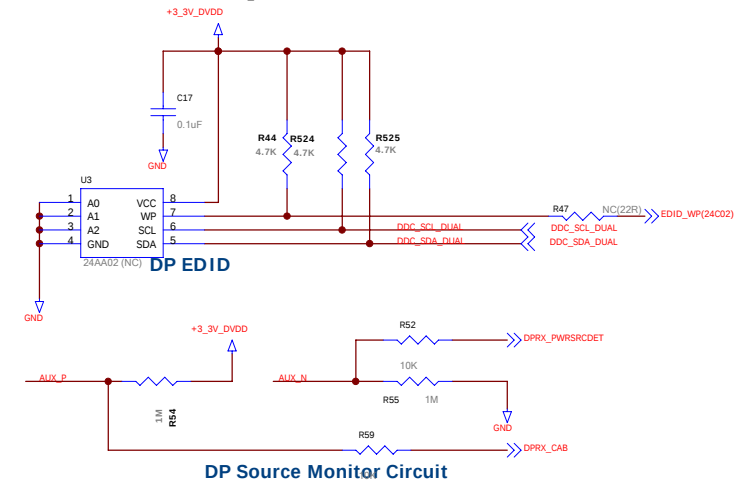
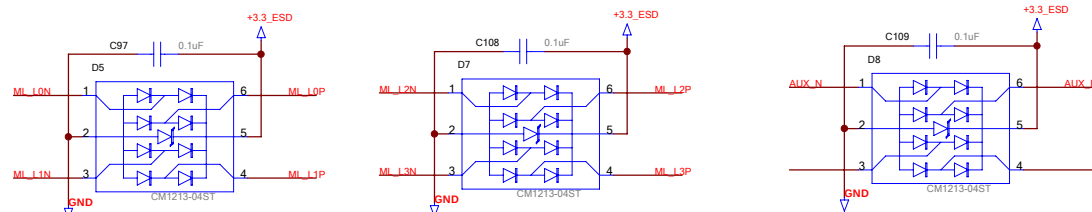
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修改记录

修改号	修改日期	修改内容
Rev 1.0	2014 1 7	首次完成

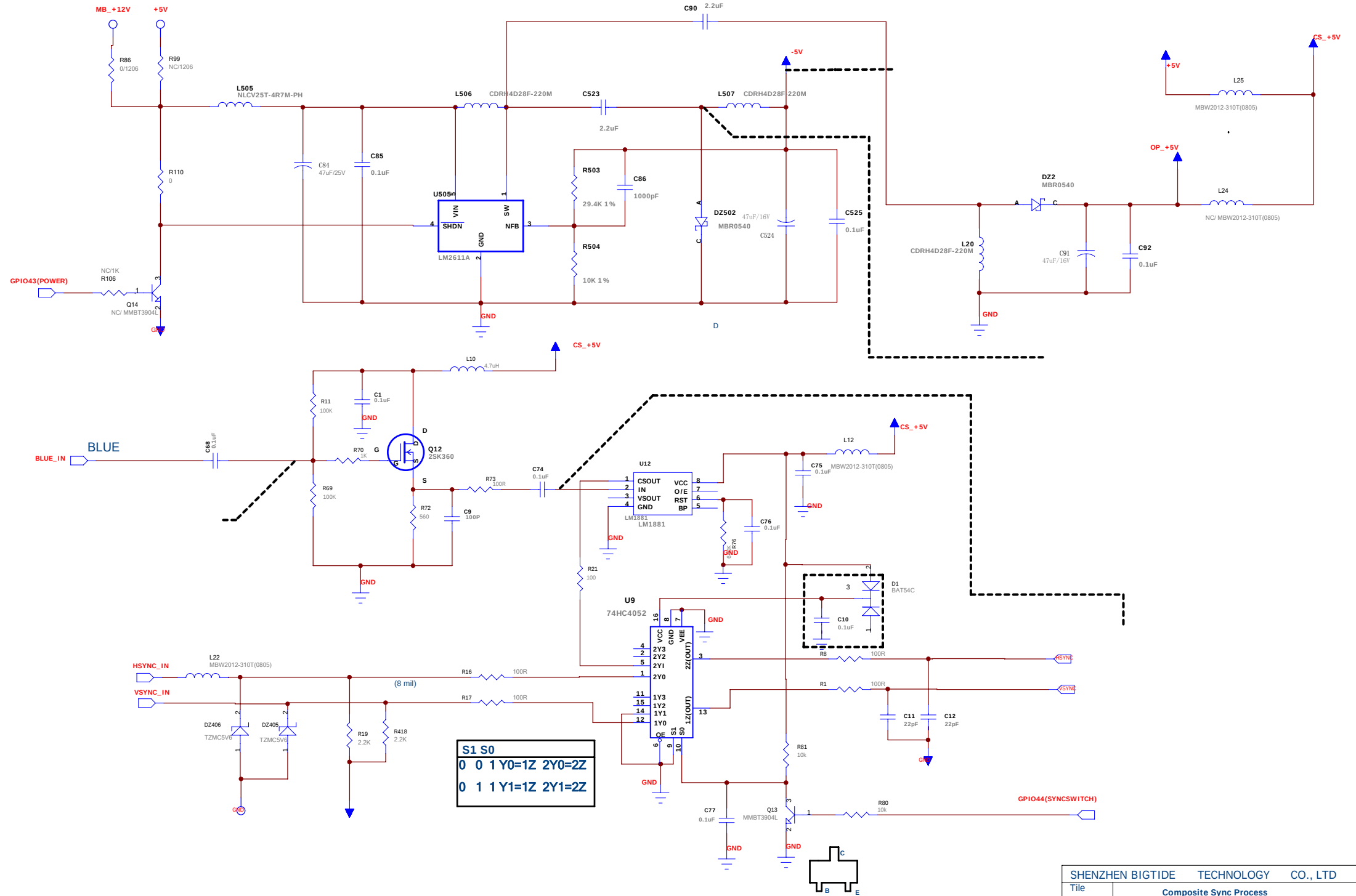


DP ESD suppressor

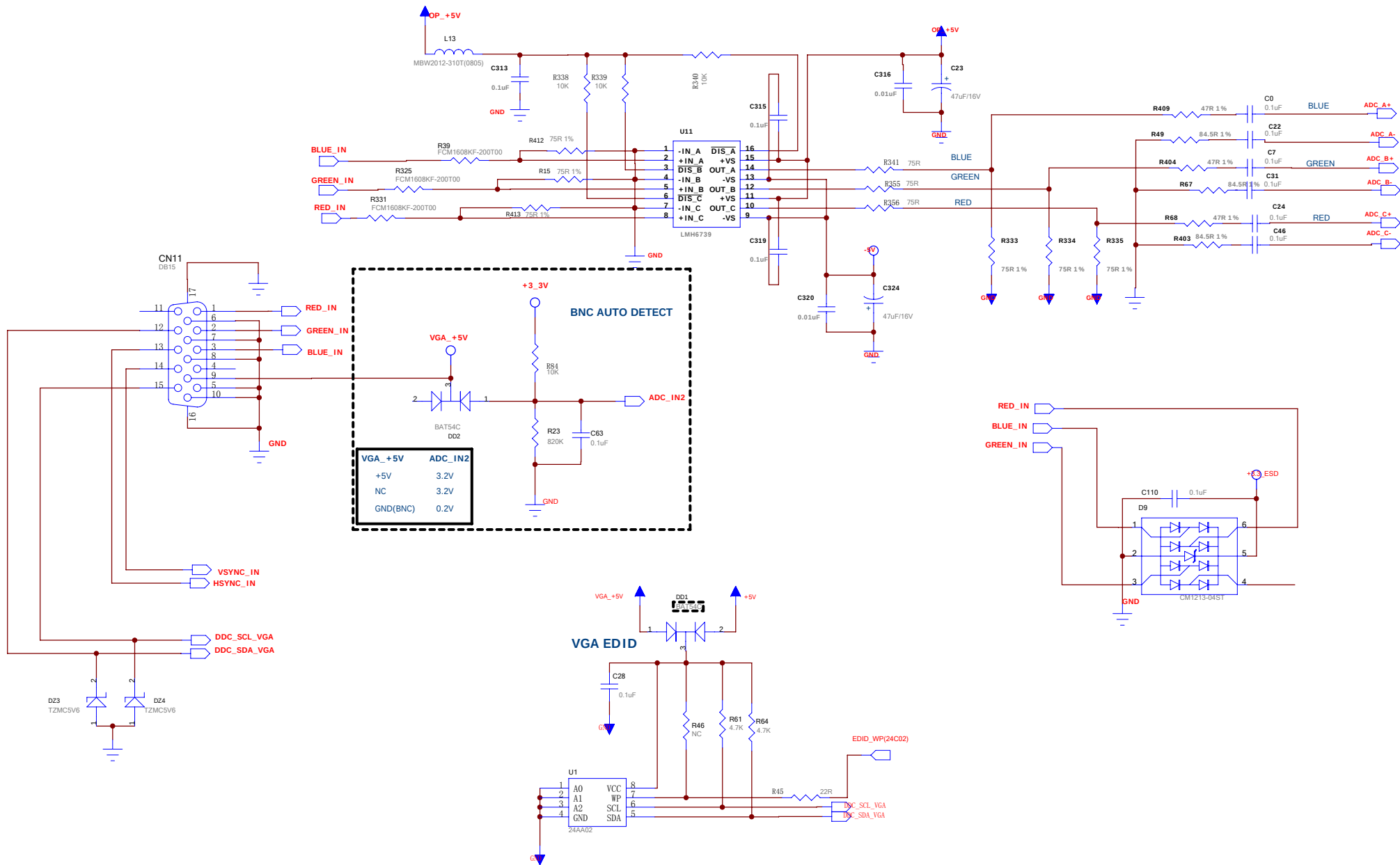


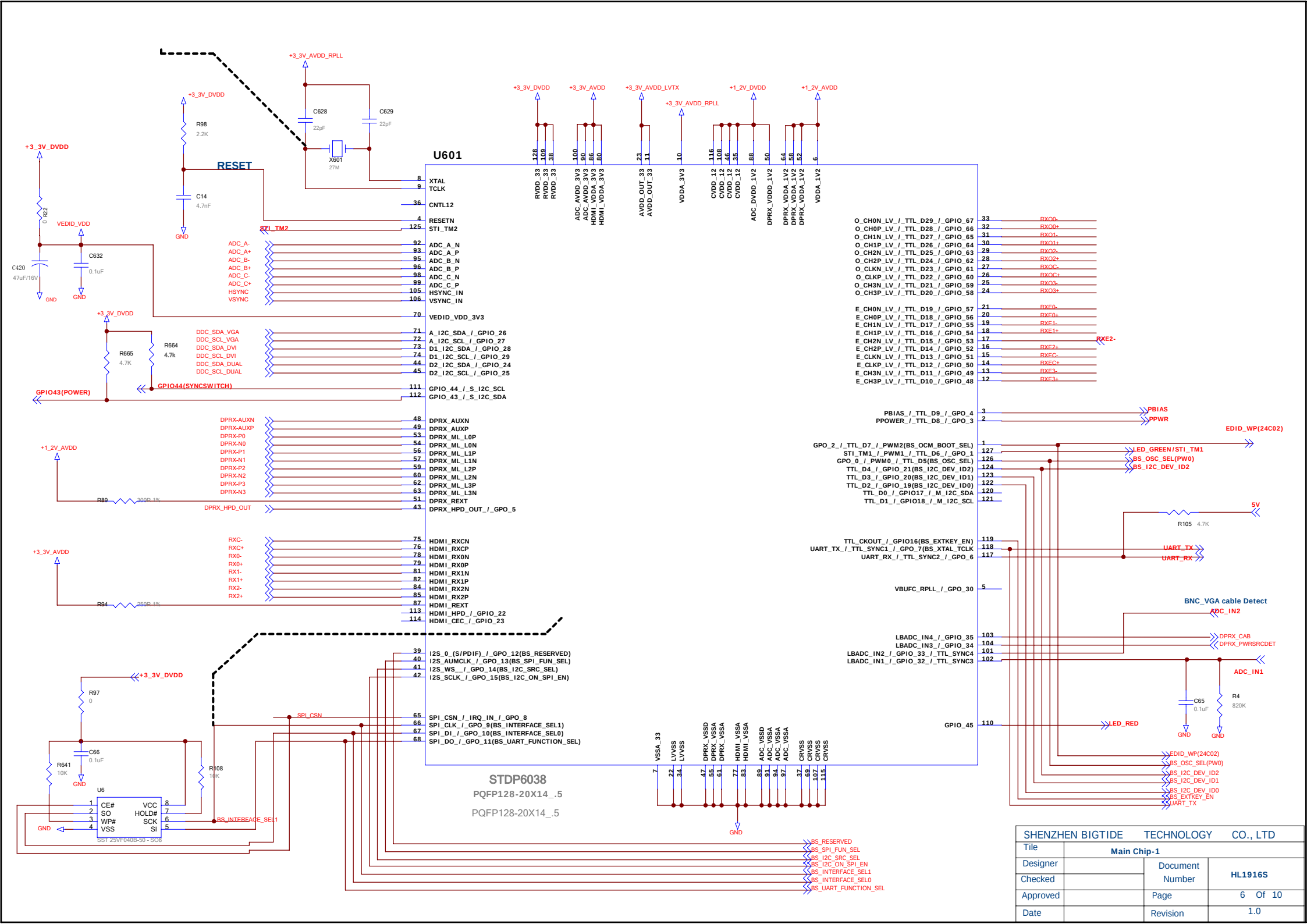
DP Source Monitor Circuit

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Title	Display Input		
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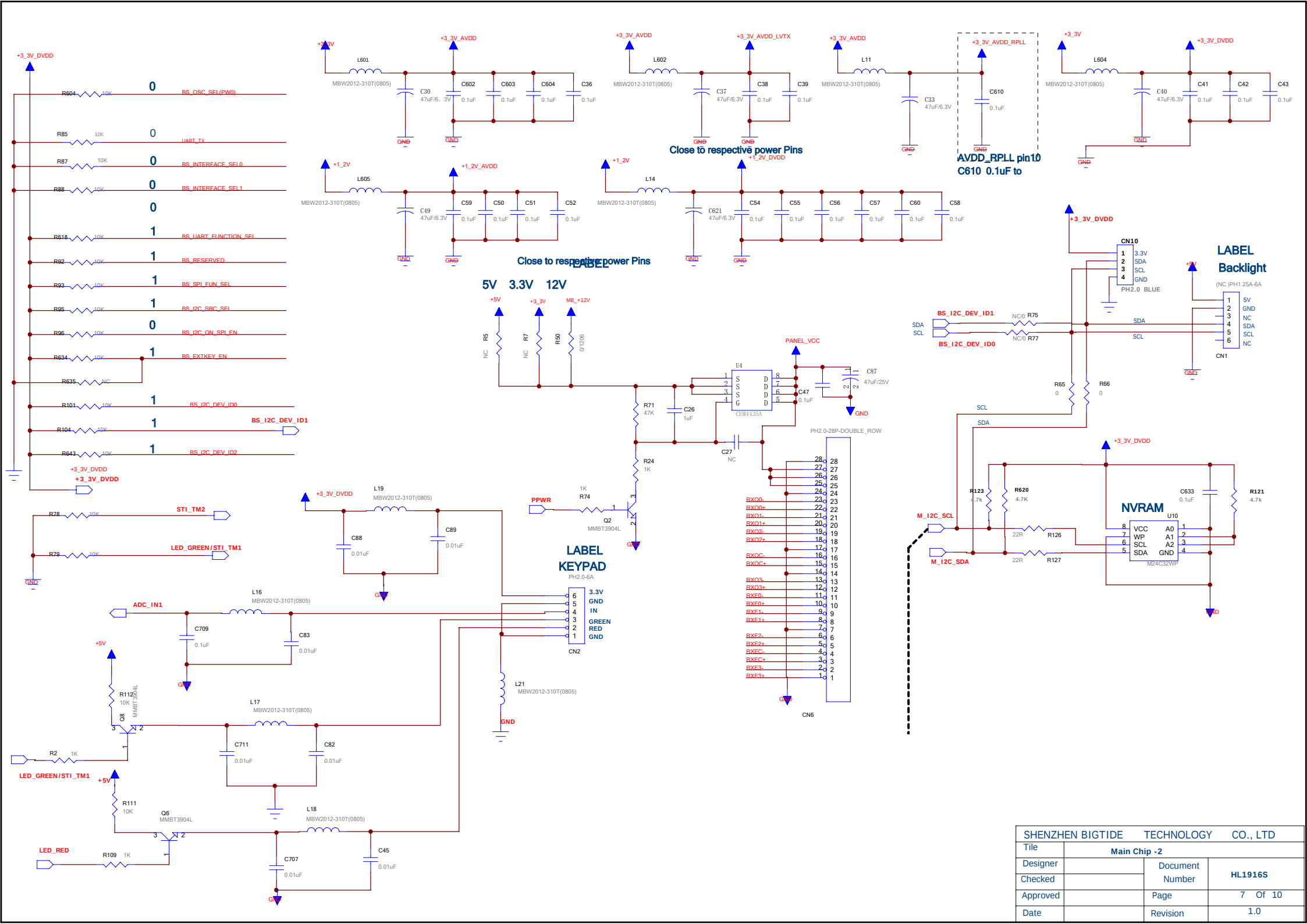


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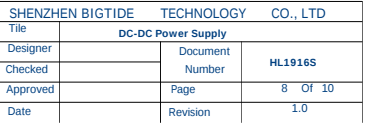


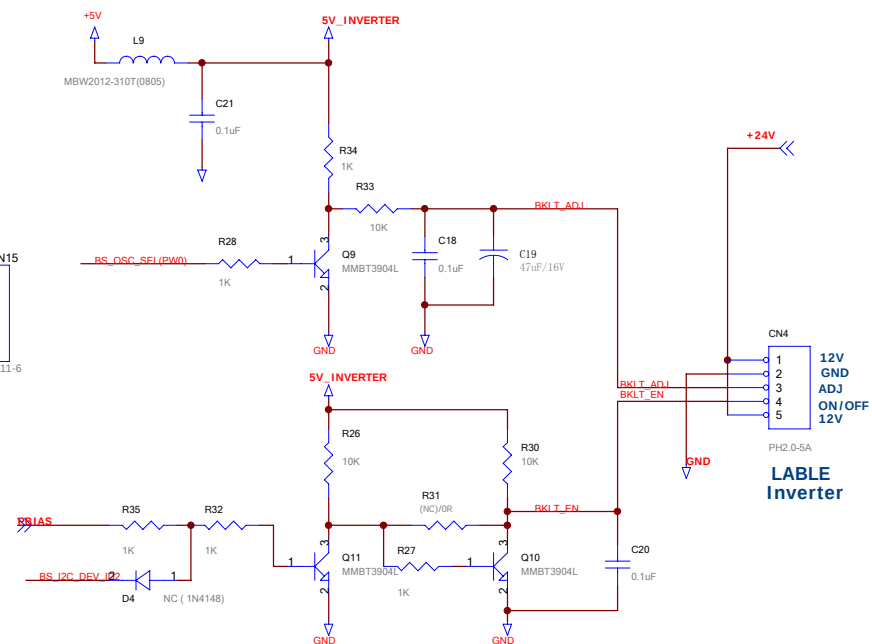
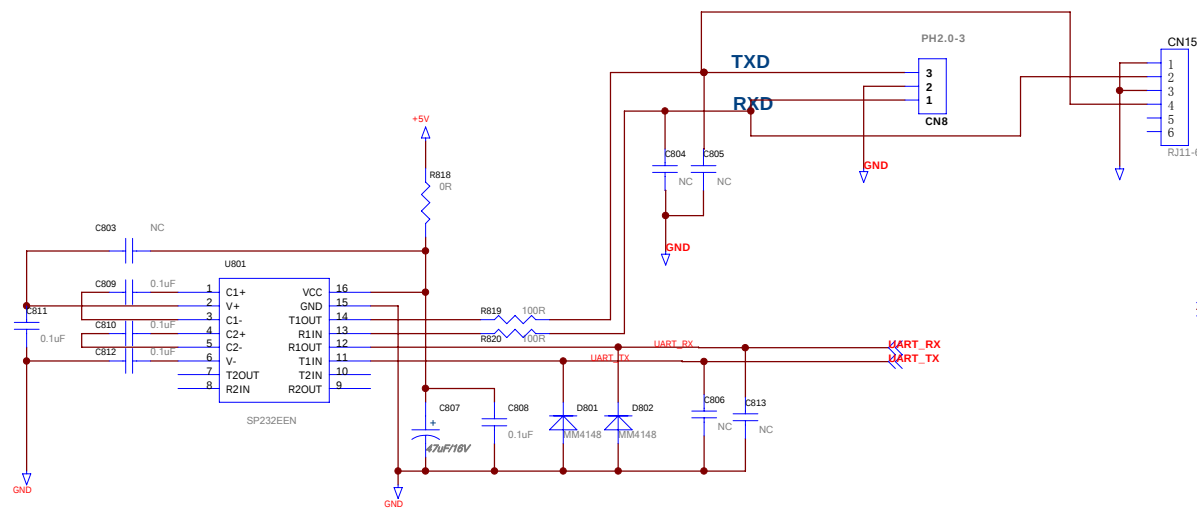
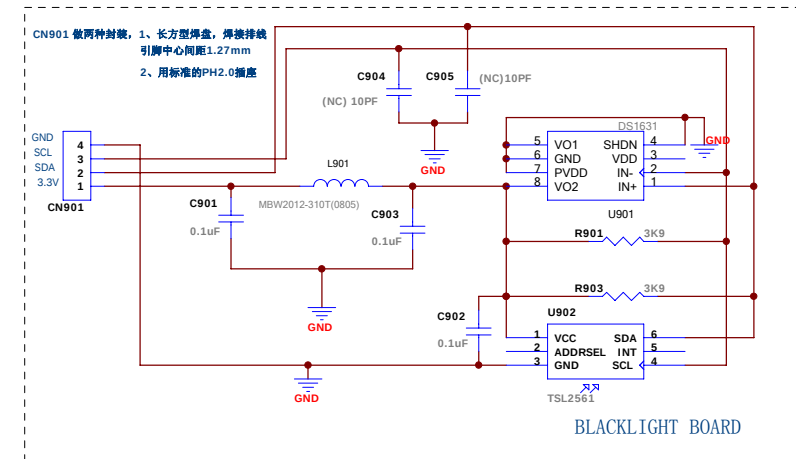
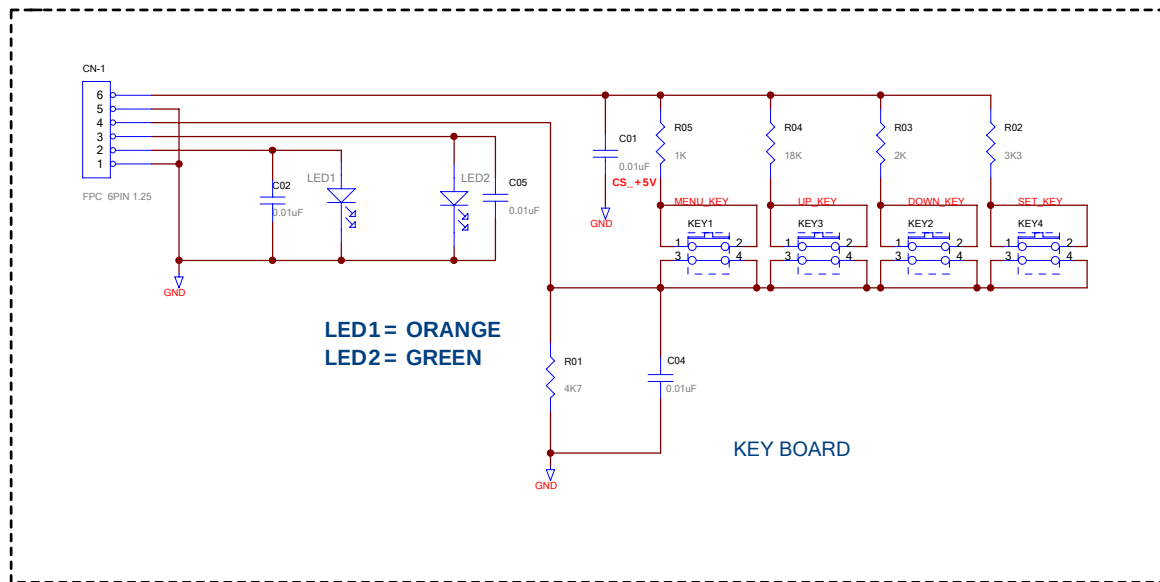
SHENZHEN BIGTIDE TECHNOLOGY CO., LTD			
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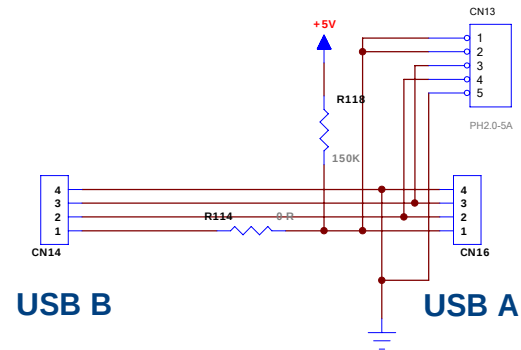
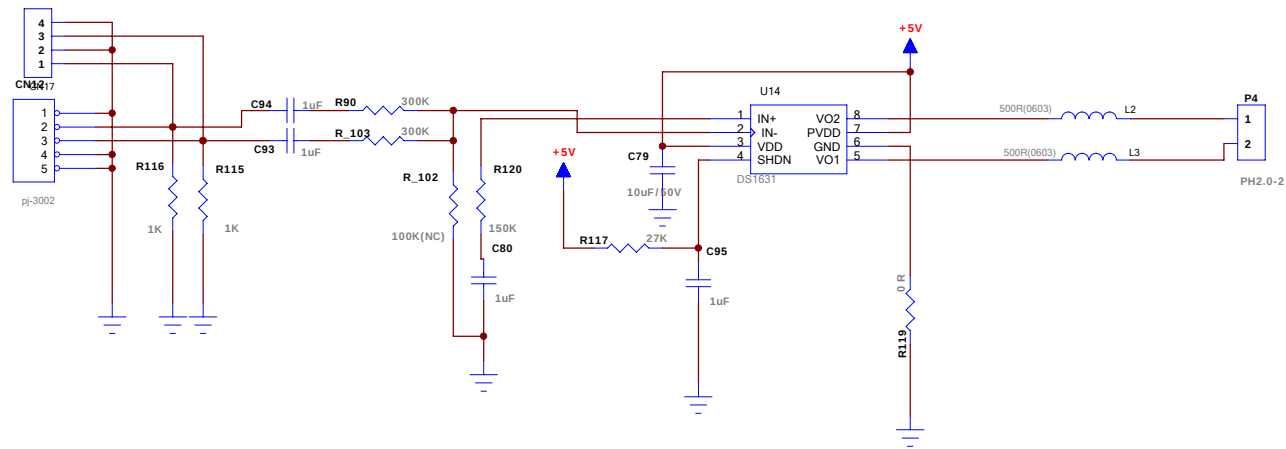
24v IN

The diagram illustrates a buck converter circuit for stepping down a 24V input to a 5V output. The central component is the LM2597 voltage regulator (U7). The input side features a 24V source connected to the VIN pin (pin 7) through a 0.1μF capacitor (C4) and a 47kΩ resistor (R3). The EN pin (pin 5) is pulled up to the input line with a 47kΩ resistor (R12). The SW pin (pin 8) is connected to the positive terminal of the inductor L1 (10μH 3A). The BOOT pin (pin 1) is connected to the SW pin through a 0.1μF capacitor (C5). The FB pin (pin 4) is connected to the non-inverting input of the op-amp section, which is also connected to the output of the inductor L1 through a 270Ω resistor (R9). The output of the converter is taken from the other end of the inductor L1, which is connected to the positive output terminal through a 2.28kΩ resistor (R6). The output is filtered by a 0.1μF capacitor (C3). The diode D10 (1ZMK3V6) is connected in parallel with the output, with its cathode to the output and its anode to ground. The ground reference is established by a 0Ω resistor (R10) connected to the GND pin (pin 6) and the common ground of the input and output lines.





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