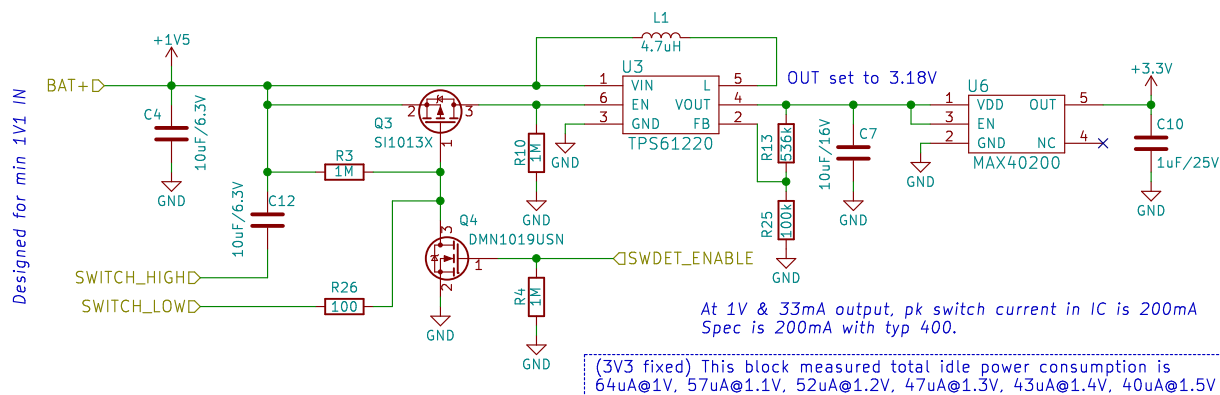


3V3 Generation From BAT



Max current calculations:

- ATBTLC1000 in RX @-95dBm: 4.5mA
- SAMD21 CPU running CoreMark: 7mA
- AT45DB081E in program operation: 15mA
- W25Q16 in program or erase: 25mA
- W25Q16 in read @ 50MHz: 15mA
- OLED current: .3mA
- SMARTCARD during program: 5mA

>> Worst case, without optimization: 63.8mA

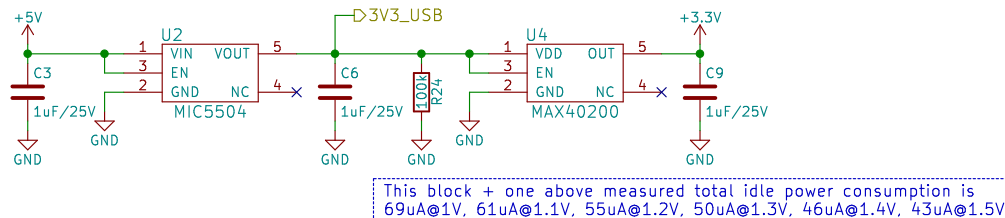
Strategy, on battery:

- not allow W25Q16 writes (15mA for read max then)
- no read on one flash while program or erase on the other

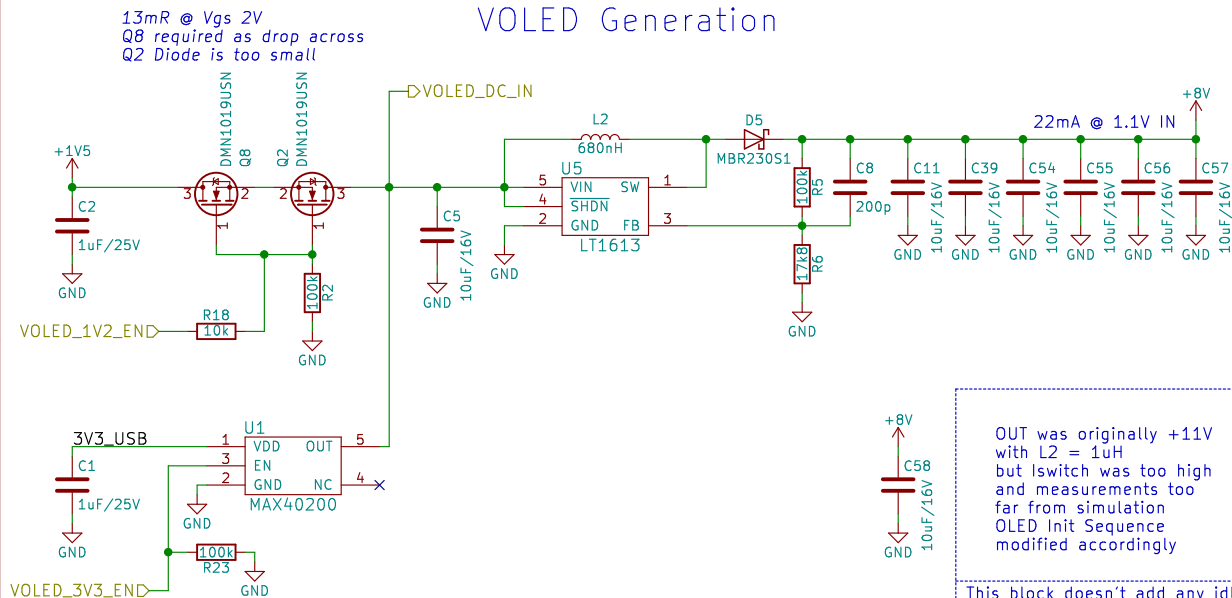
>> Max current becomes 38.8mA

Close enough to the 33mA for 200mA max Ic for the TPS?

3V3 Generation From USB



VOLED Generation



Sheet: /Power Supplies/
File: mini_ble_psu.sch

Title:

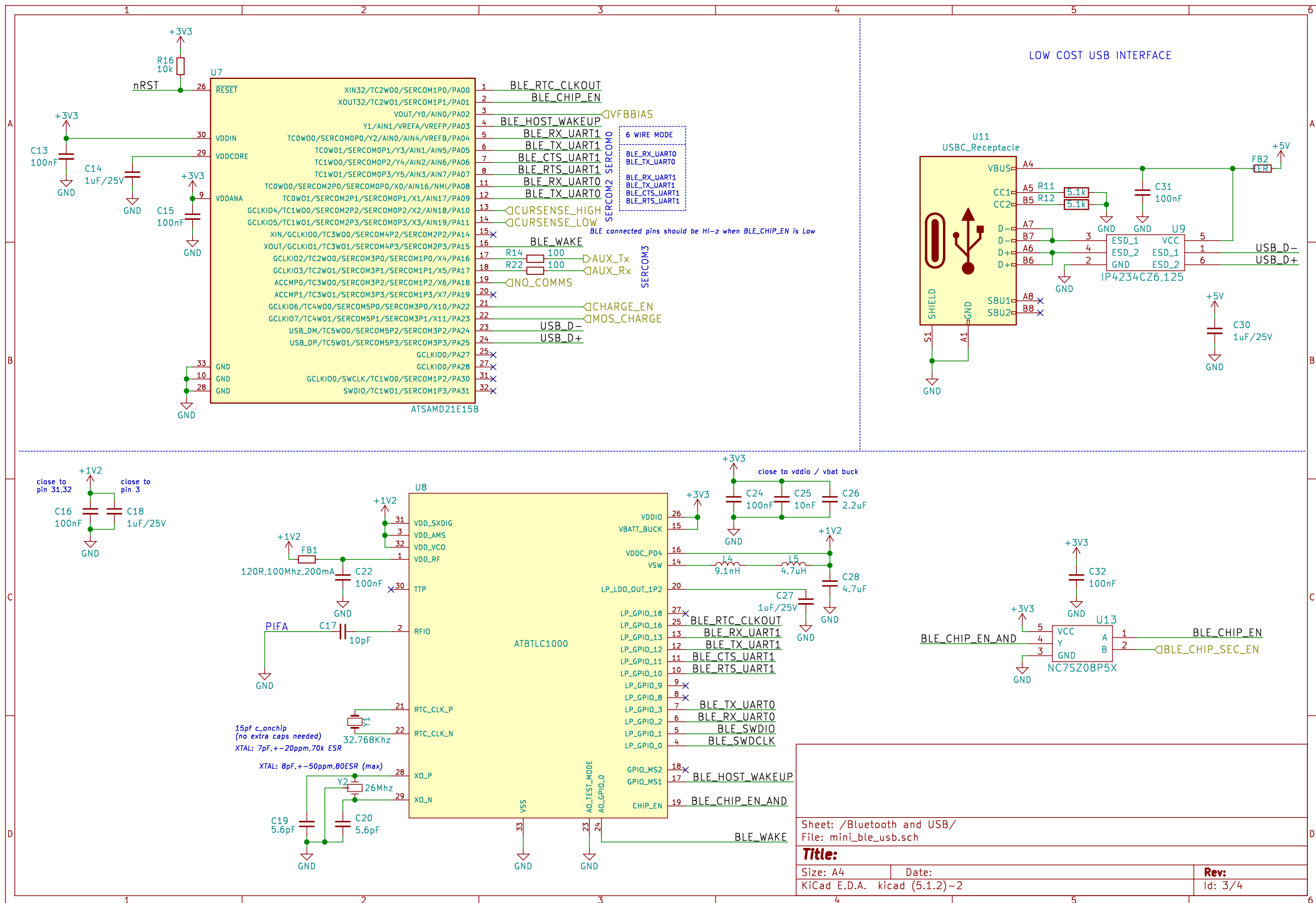
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Date:

KiCad E.D.A. kicad (5.1.2)-2

Rev:

Id: 2/4



Sheet: /Bluetooth and USB/		File: mini_ble_usb.sch	
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