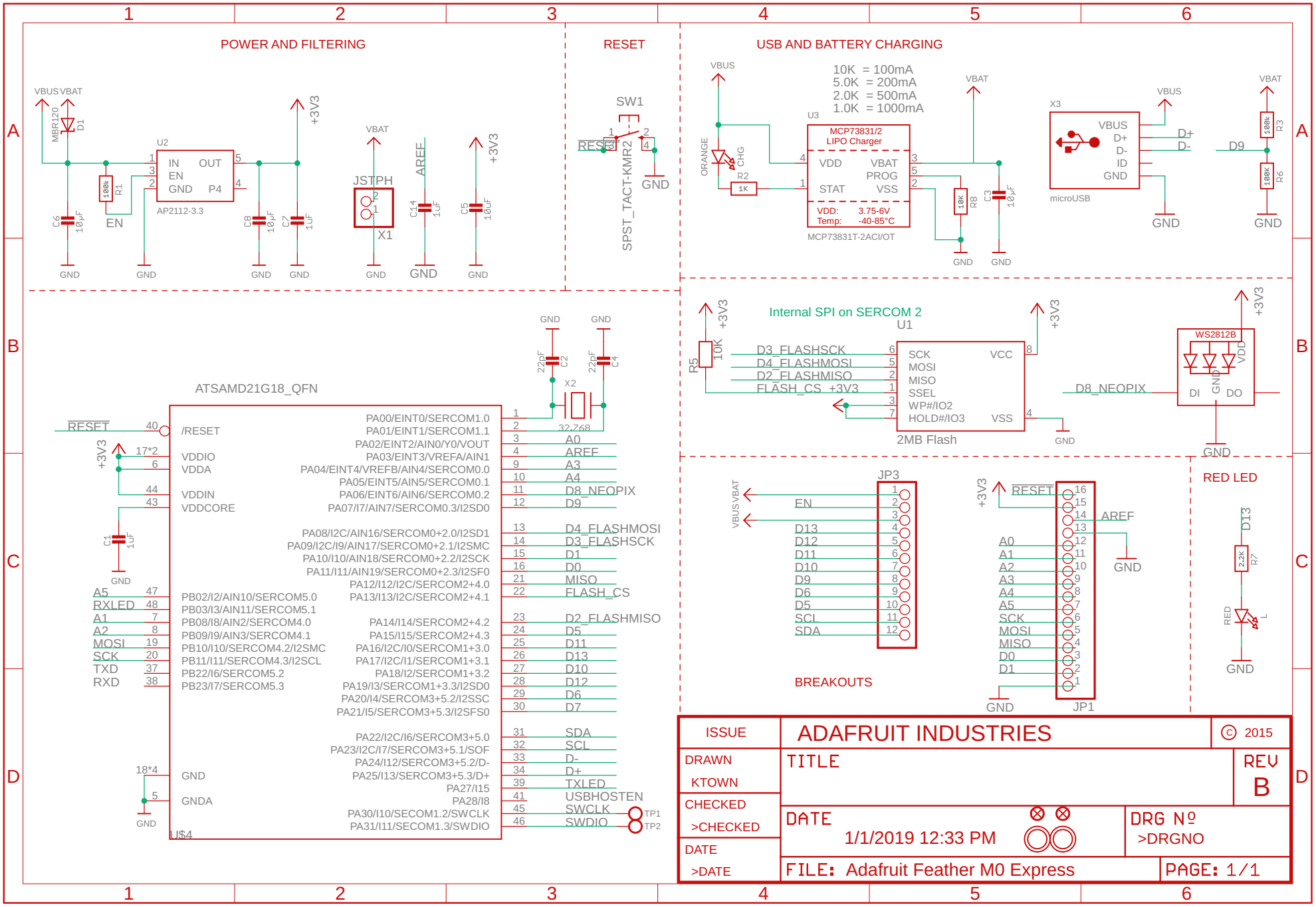
POWER AND FILTERING
VBUS VBAT
MBR120
D1
U2
IN OUT
EN
GND P4
AP2112-3.3
100k R1
EN
C6 10µF
C8 10µF
C7 1uF
+3V3
GND
VBAT
JSTPH
X1
AREF
C14 1uF
C5 10uF
RESET
SW1
RESET
SPST_TACT-KMR2
USB AND BATTERY CHARGING
VBUS
ORANGE
CHG
R2 1K
10K = 100mA
5.0K = 200mA
2.0K = 500mA
1.0K = 1000mA
U3
MCP73831/2
LIPO Charger
VDD VBAT
PROG
STAT VSS
VDD: 3.75-6V
Temp: -40-85°C
MCP73831T-2ACI/OT
10K R8
C3 10µF
X3
VBUS
D+
D-
ID
GND
microUSB
D9
100k R3
100k R6
Internal SPI on SERCOM 2
U1
R5 10K
D3_FLASHSCK
D4_FLASHMOSI
D2_FLASHMISO
FLASH_CS +3V3
SCK
MOSI
MISO
SSEL
WP#/IO2
HOLD#/IO3
VCC
VSS
2MB Flash
D8_NEOPIX
WS2812B
DI DO
ATSAMD21G18_QFN
22pF C2
22pF C4
X2
32.768
RESET
/RESET
VDDIO
VDDA
VDDIN
VDDCORE
C1 1uF
A5
RXLED
A1
A2
MOSI
SCK
TXD
RXD
PB02/I2/AIN10/SERCOM5.0
PB03/I3/AIN11/SERCOM5.1
PB08/I8/AIN2/SERCOM4.0
PB09/I9/AIN3/SERCOM4.1
PB10/I10/SERCOM4.2/I2SMC
PB11/I11/SERCOM4.3/I2SCL
PB22/I6/SERCOM5.2
PB23/I7/SERCOM5.3
GND
GNDA
U$4
PA00/EINT0/SERCOM1.0
PA01/EINT1/SERCOM1.1
PA02/EINT2/AIN0/Y0/VOUT
PA03/EINT3/VREFA/AIN1
PA04/EINT4/VREFB/AIN4/SERCOM0.0
PA05/EINT5/AIN5/SERCOM0.1
PA06/EINT6/AIN6/SERCOM0.2
PA07/I7/AIN7/SERCOM0.3/I2SD0
PA08/I2C/AIN16/SERCOM0+2.0/I2SD1
PA09/I2C/I9/AIN17/SERCOM0+2.1/I2SMC
PA10/I10/AIN18/SERCOM0+2.2/I2SCK
PA11/I11/AIN19/SERCOM0+2.3/I2SF0
PA12/I12/I2C/SERCOM2+4.0
PA13/I13/I2C/SERCOM2+4.1
PA14/I14/SERCOM2+4.2
PA15/I15/SERCOM2+4.3
PA16/I2C/I0/SERCOM1+3.0
PA17/I2C/I1/SERCOM1+3.1
PA18/I2/SERCOM1+3.2
PA19/I3/SERCOM1+3.3/I2SD0
PA20/I4/SERCOM3+5.2/I2SSC
PA21/I5/SERCOM3+5.3/I2SFS0
PA22/I2C/I6/SERCOM3+5.0
PA23/I2C/I7/SERCOM3+5.1/SOF
PA24/I12/SERCOM3+5.2/D-
PA25/I13/SERCOM3+5.3/D+
PA27/I15
PA28/I8
PA30/I10/SECOM1.2/SWCLK
PA31/I11/SECOM1.3/SWDIO
A0
AREF
A3
A4
D8_NEOPIX
D9
D4_FLASHMOSI
D3_FLASHSCK
D1
D0
MISO
FLASH_CS
D2_FLASHMISO
D5
D11
D13
D10
D12
D6
D7
SDA
SCL
D-
D+
TXLED
USBHOSTEN
SWCLK
SWDIO
TP1
TP2
JP3
EN
D13
D12
D11
D10
D9
D6
D5
SCL
SDA
BREAKOUTS
RESET
AREF
A0
A1
A2
A3
A4
A5
SCK
MOSI
MISO
D0
D1
JP1
RED LED
D13
2.2k R7
RED L
ISSUE
ADAFRUIT INDUSTRIES
© 2015
DRAWN
KTOWN
TITLE
REV
B
CHECKED
>CHECKED
DATE
1/1/2019 12:33 PM
DRG Nº
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DATE
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FILE: Adafruit Feather M0 Express
PAGE: 1/1