VCC=>VDC 5.0V/2A

CN4
B7B-PH-K-S

7 PSW
6 VBAT
5 VCC
4 GND
3 RST
2 RXD
1 TXD

D4 RB521S-30

SW1
TSWRA 1102V(G)-160G

R7 1K
C7 1uF
PSW_IN

Q1 AP2305GN
VBAT
C8 1uF
BATT
R11 100K
R10 10K
Q2 CEN2306
R12 1K
R13 100K
TIMER_INT

EC1 100uF/16V TAN D
5V VCC

R5 R1 309K 1%
R6 R2 100K 1%

D3 SK34A
K A

L1 4.7uH
R4 150K
C5 4.7pF

U3 LM2623ALD/NOPB
6 FB
13 SW_13
12 SW_12
NC14
NC8
NC7
NC1
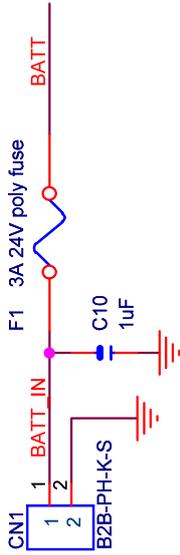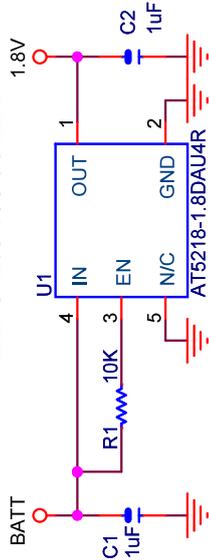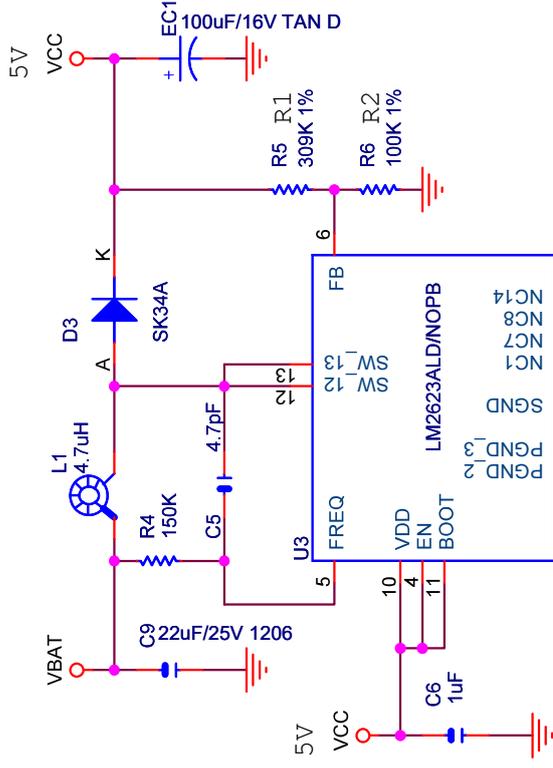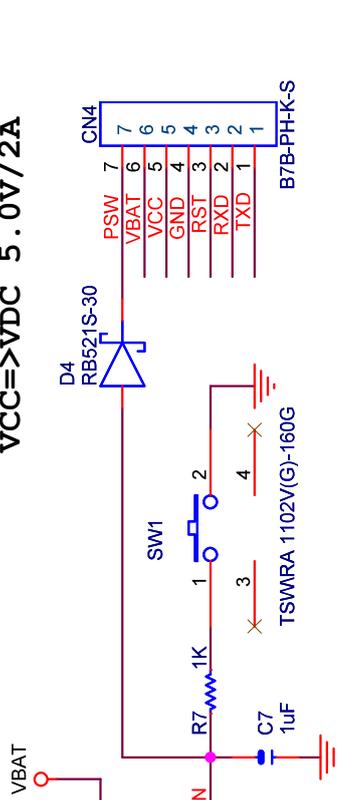SGND
9
PGND_3
PGND_2
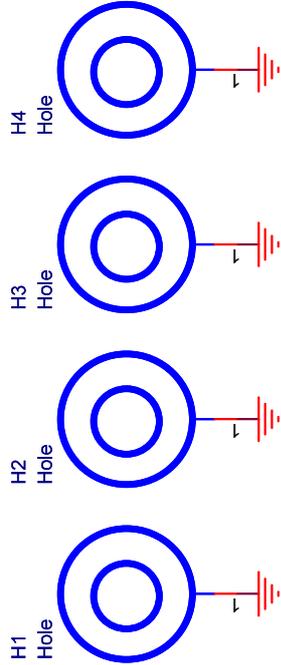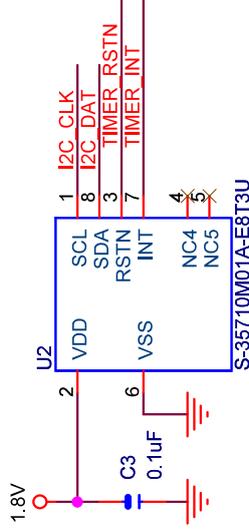5 FREQ
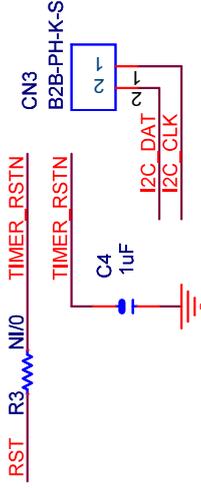10 VDD
4 EN
11 BOOT

C9 22uF/25V 1206
VBAT

5V VCC
C6 1uF

((R1/R2)+1)*1.24 = Vout

BATT=>VDC 1.8V~5.0V/3A

F1 3A 24V poly fuse
BATT

CN1
B2B-PH-K-S
1 BATT_IN
2

C10 1uF

D1 SK34A
A K BATT

CN2
B2B-PH-K-S
7 BATT
6 ADP
5 VCC
4 GND
3 RST
2 RXD
1 TXD
2022-07

LDO 1.8V/300mA

U1 AT5218-1.8DAU4R
1 OUT
2 GND
4 IN
3 EN
5 N/C

1.8V
C2 1uF

R1 10K
BATT
C1 1uF

CN3
B2B-PH-K-S
1
2
I2C_DAT
I2C_CLK
C4 1uF

TIMER_RSTN
TIMER_RSTN
RST R3 NI/0

R8 NI/10K
R9 NI/10K
1.8V
1.8V
I2C_CLK
I2C_DAT
I2C_CLK
I2C_DAT

U2 S-35710M01A-E8T3U
1 SCL
8 SDA
3 RSTN
7 INT
4 NC4
5 NC5
2 VDD
6 VSS

1.8V
C3 0.1uF

H1 Hole
H2 Hole
H3 Hole
H4 Hole

IDY CORPORATION
Title VIN & PWR IC
Size
Document Number PSB100
Rev 0.1
Date: Tuesday, December 20, 2022
Sheet 2 of 2