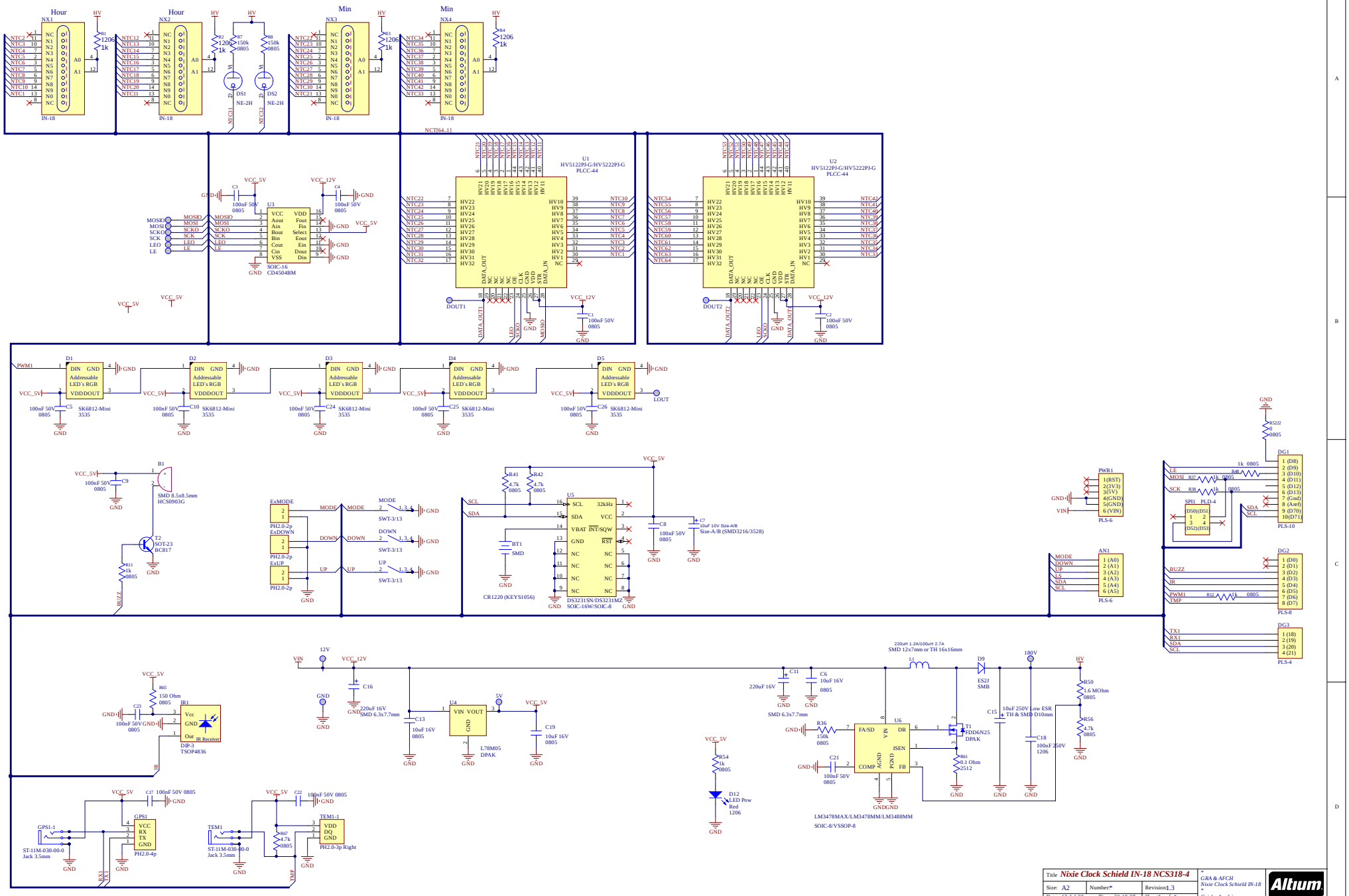
Hour
Hour
Min
Min
NX1
NX2
NX3
NX4
IN-18
HV
R1 1206 1k
R2 1206 1k
R3 1206 1k
R4 1206 1k
R7 150k 0805
R8 150k 0805
DS1 NE-2H
DS2 NE-2H
NTC[64..1]
U1 HV5122PJ-G/HV5222PJ-G PLCC-44
U2 HV5122PJ-G/HV5222PJ-G PLCC-44
U3 CD4504BM SOIC-16
MOSIO
MOSI
SCKO
SCK
LEO
LE
VCC_5V
VCC_12V
GND
C1 100nF 50V 0805
C2 100nF 50V 0805
C3 100nF 50V 0805
C4 100nF 50V 0805
DOUT1
DOUT2
D1 D2 D3 D4 D5
Addressable LED's RGB
DIN GND VDDDOUT
SK6812-Mini 3535
C5 C10 C24 C29 C26 100nF 50V 0805
LOUT
B1 SMD 8.5x8.5mm HCS0903G
T2 SOT-23 BC817
R11 1k 0805
BUZZ
ExMODE
ExDOWN
ExUP
PH2.0-2p
MODE
DOWN
UP
SWT-3/13
R41 R42 4.7k 0805
U5 DS3231SN/DS3231MZ SOIC-16W/SOIC-8
SCL
SDA
32kHz
VCC
VBAT
INT/SQW
RST
BT1 SMD
CR1220 (KEYS1056)
C8 100nF 50V 0805
C7 10uF 10V Size-A/B (SMD3216/3528)
PWR1
PLS-6
AN1
RS222 0 0805
DG1
DG2
DG3
PLS-10
PLS-8
PLS-4
SPI1 PLD-4
DS0(DS1)
DS2(DS3)
R37 R38 R48 1k 0805
R12 1k 0805
TX1
RX1
SDA
SCL
IR1 DIP-3 TSOP4836
R65 150 Ohm 0805
C23 100nF 50V 0805
GPS1 PH2.0-4p
GPS1-1 ST-11M-030-00-0 Jack 3.5mm
TEM1 PH2.0-3p Right
TEM1-1 ST-11M-030-00-0 Jack 3.5mm
R67 4.7k 0805
C17 C22 100nF 50V 0805
VIN
12V
C16 220uF 16V SMD 6.3x7.7mm
C13 10uF 16V 0805
U4 L78M05 DPAK
C19 10uF 16V 0805
5V
C11 220uF 16V SMD 6.3x7.7mm
C6 10uF 16V 0805
L1 220uH 1.2A/100uH 2.7A SMD 12x7mm or TH 16x16mm
D9 ES2J SMB
180V
HV
R50 1.6 MOhm 0805
R56 4.7k 0805
C15 10uF 250V Low ESR TH & SMD D10mm
C18 100nF 250V 1206
T1 FDD6N25 DPAK
R61 0.1 Ohm 2512
U6 LM3478MAX/LM3478MM/LM3488MM SOIC-8/VSSOP-8
FA/SD
VIN
DR
ISEN
FB
COMP
AGND
PGND
R36 150k 0805
C21 100nF 50V 0805
R54 1k 0805
D12 LED Pow Red 1206
Title Nixie Clock Schield IN-18 NCS318-4
Size: A2
Number: *
Revision: 1.3
Date: 12-Jul-20
Time: 22:10:37
Sheet * of *
File: C:\Users\GRA\Dropbox\Project\Nixie_Clock\PCB_Nixie_Clock_Shield_NCS318-4\Nixie_Clock_Shield.SchDoc
GRA & AFCH
Nixie Clock Schield IN-18
Grisha Anofriev
Altium