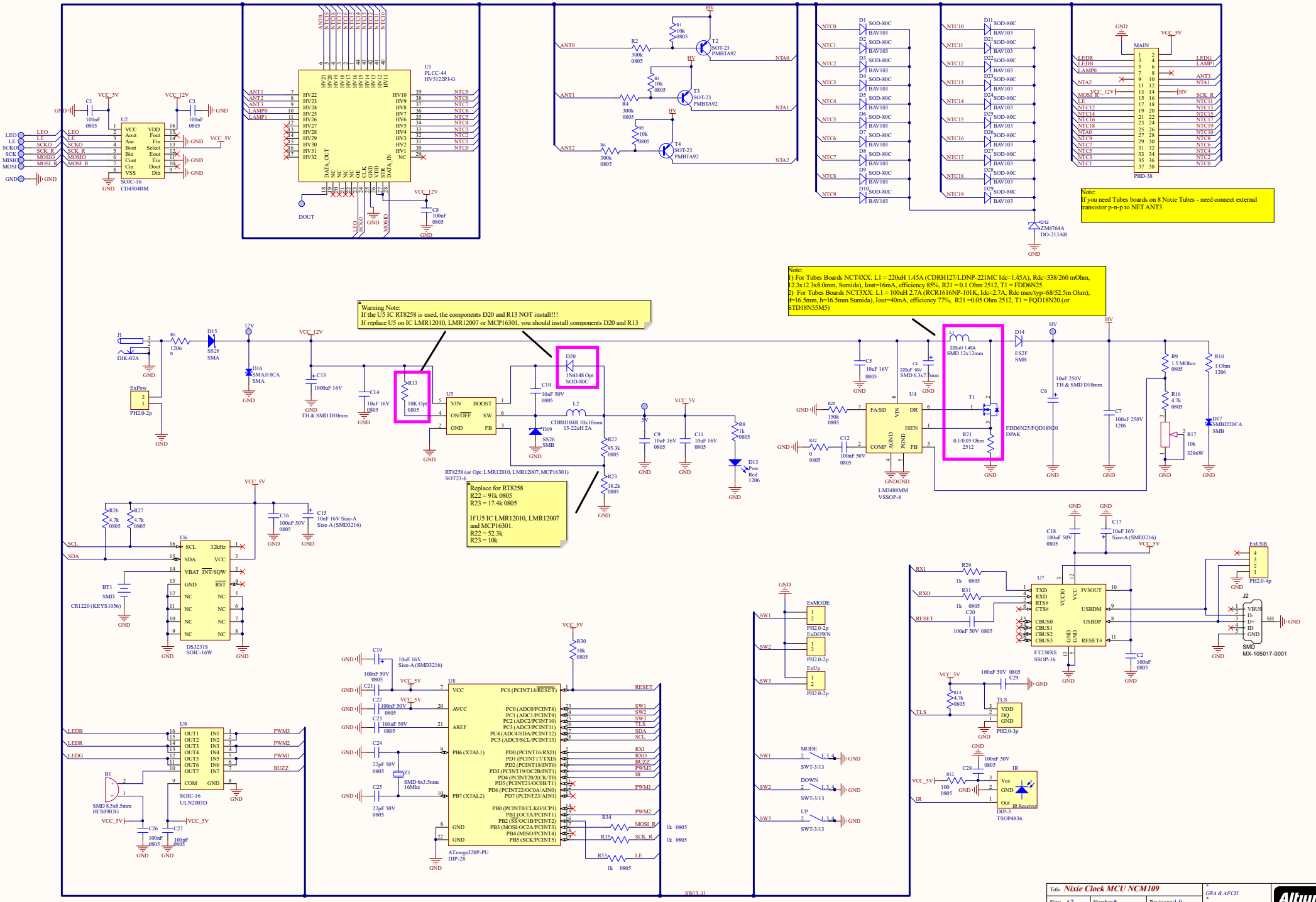
Warning Note:
If the U5 IC RT8258 is used, the components D20 and R13 NOT install!!!
If replace U5 on IC LMR12010, LMR12007 or MCP16301, you should install components D20 and R13
Note:
1) For Tubes Boards NCT4XX: L1 = 220uH 1.45A (CDRH127/LDNP-221MC Idc=1.45A), Rdc=338/260 mOhm, 12.3x12.3x8.0mm, Sumida), Iout=16mA, efficiency 85%, R21 = 0.1 Ohm 2512, T1 = FDD6N25
2) For Tubes Boards NCT3XX: L1 = 100uH 2.7A (RCR1616NP-101K, Idc=2.7A, Rdc max/typ=68/52.5m Ohm), l=16.5mm, h=16.5mm Sumida), Iout=40mA, efficiency 77%, R21 =0.05 Ohm 2512, T1 = FQD18N20 (or STD18N55M5)
Note:
If you need Tubes boards on 8 Nixie Tubes - need connect external transistor p-n-p to NET ANT3
Replace for RT8258
R22 = 91k 0805
R23 = 17.4k 0805
If U5 IC LMR12010, LMR12007 and MCP16301.
R22 = 52.3k
R23 = 10k
RT8258 (or Opt: LMR12010, LMR12007, MCP16301) SOT23-6
LM3488MM VSSOP-8
FDD6N25/FQD18N20 DPAK
DS3231S SOIC-16W
CD4504BM SOIC-16
HV5122PJ-G PLCC-44
ATmega328P-PU DIP-28
FT230XS SSOP-16
TSOP4836 DIP-3
PBD-38
Title Nixie Clock MCU NCM109
Size: A2
Number:*
Revision:v1.0
Date: 11.08.2017
Time: 18:42-17
Sheet* of *
File: D:\Dropbox\Project\Nixie Clock\PCB Nixie Clock MCU NCM109\Nixie Clock.SchDoc
GRA & AFCH
Altium