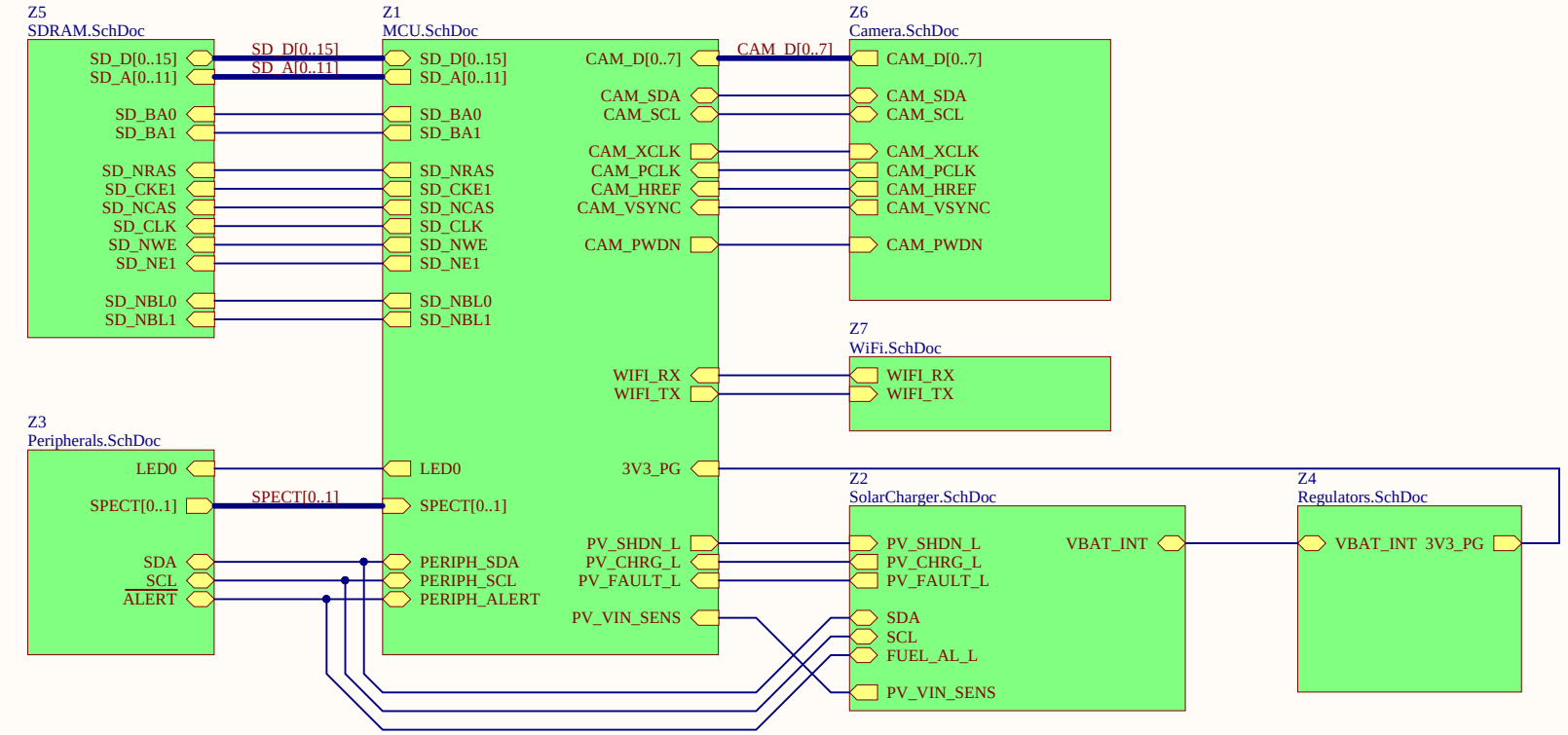
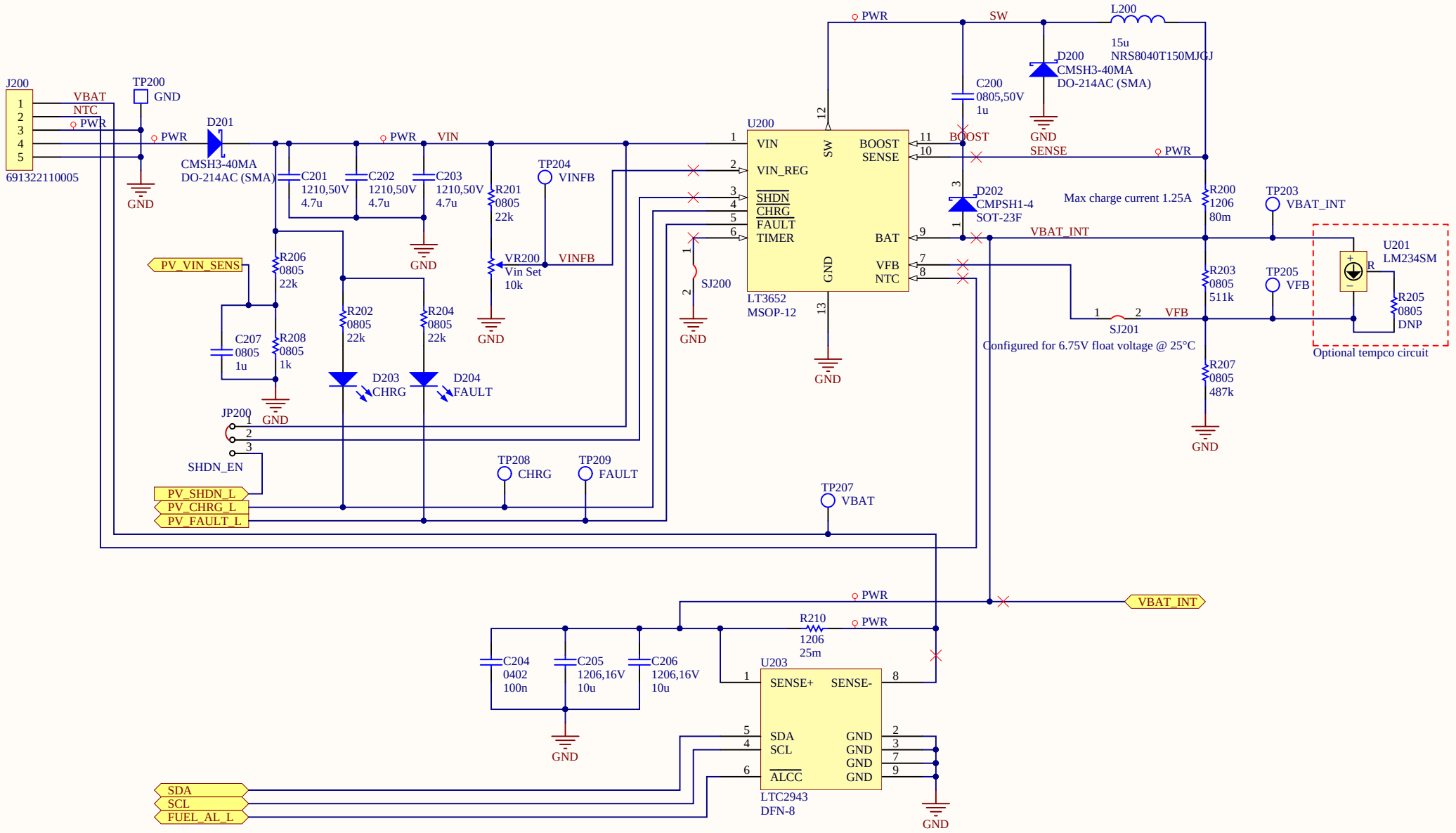
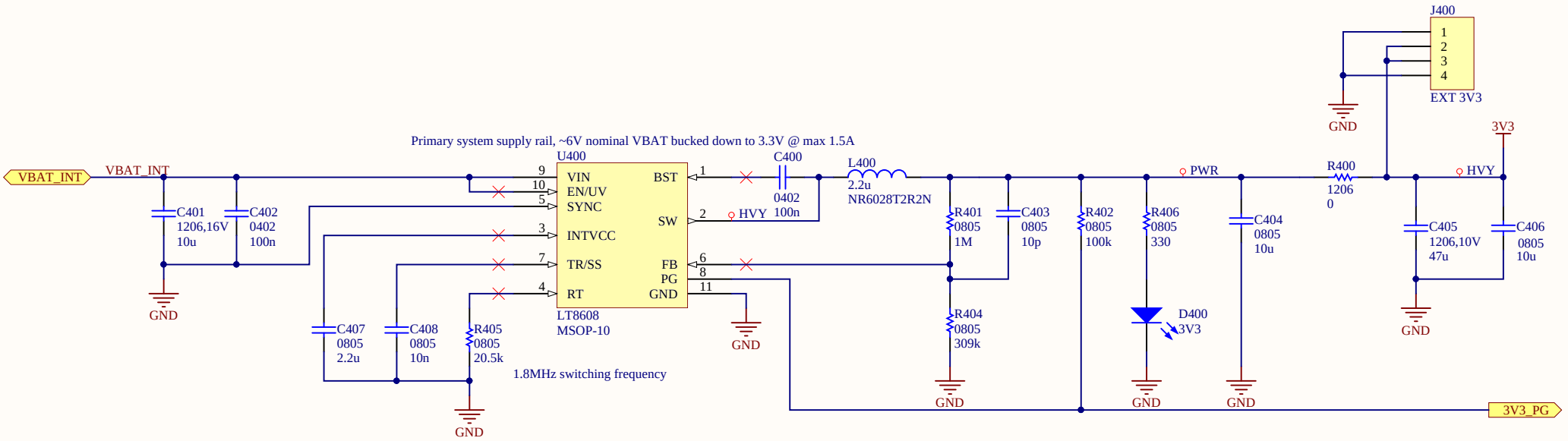


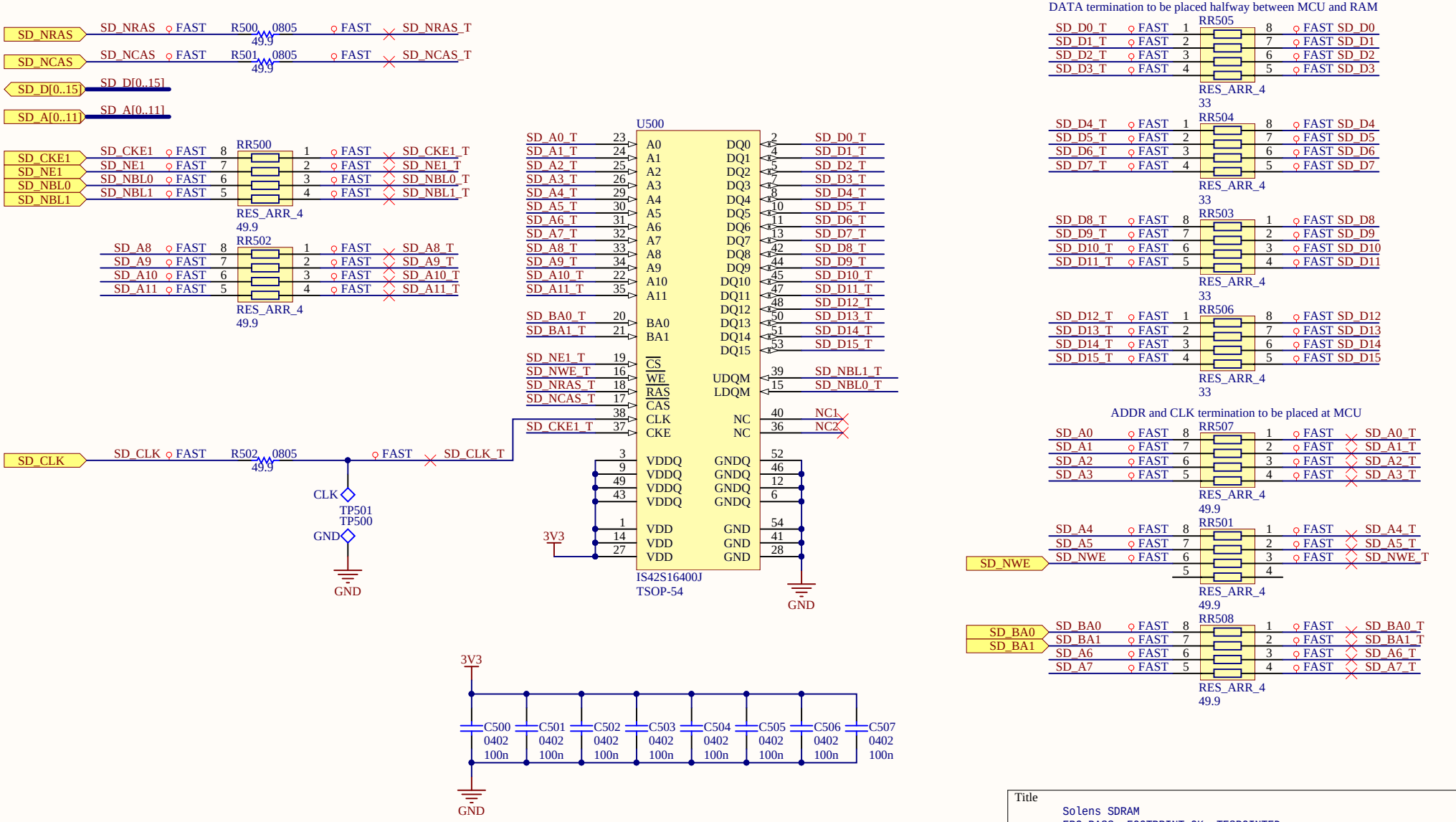
Title	Solens Camera Subsystem ERC WARN, FOOTPRINT N/A	
Size: A4	Number	Revision
Date: 3/21/2017		Sheet 1 of 8
File: C:\Users\..\Solens.SchDoc		Drawn By: JL, AY

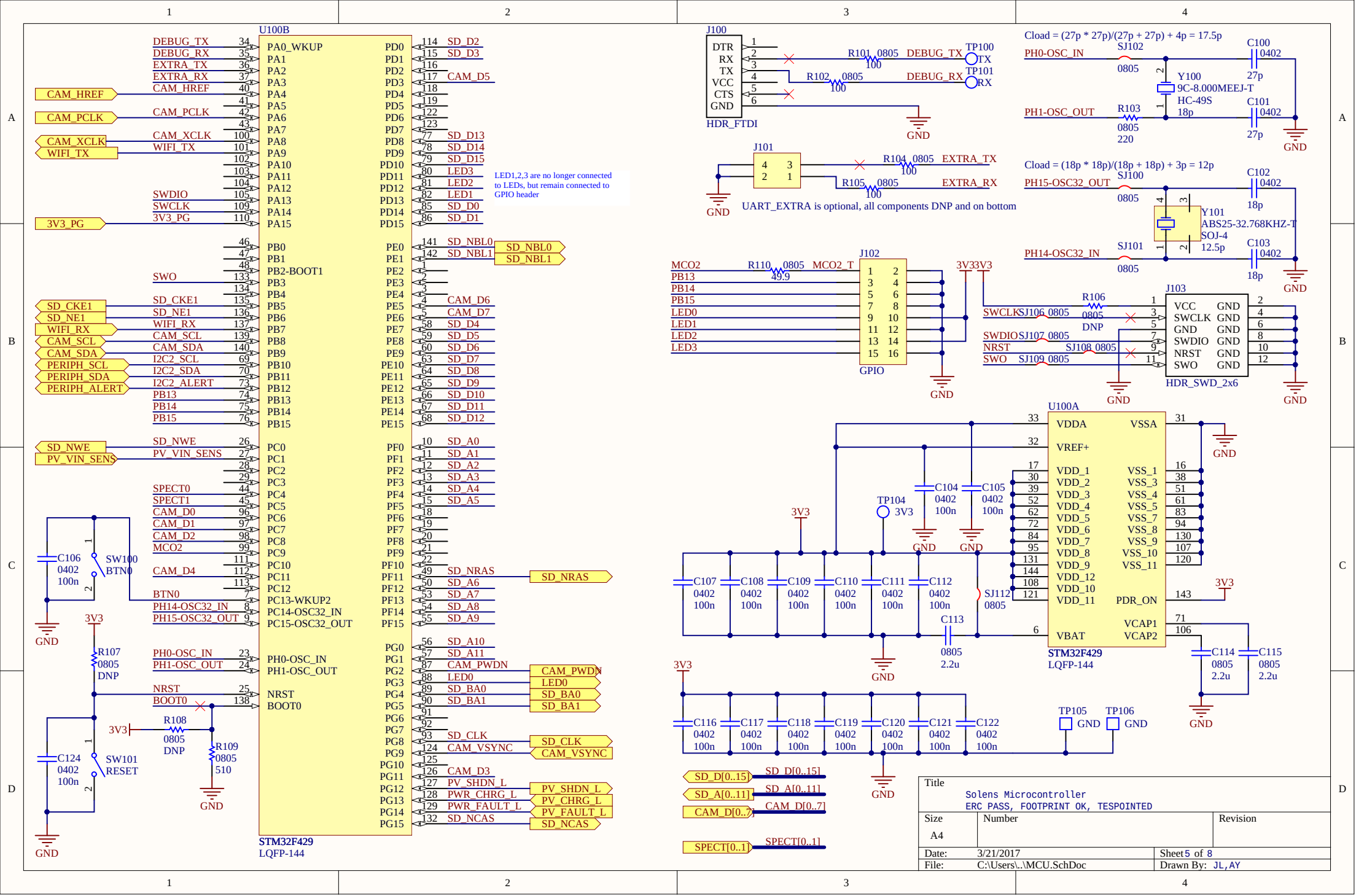


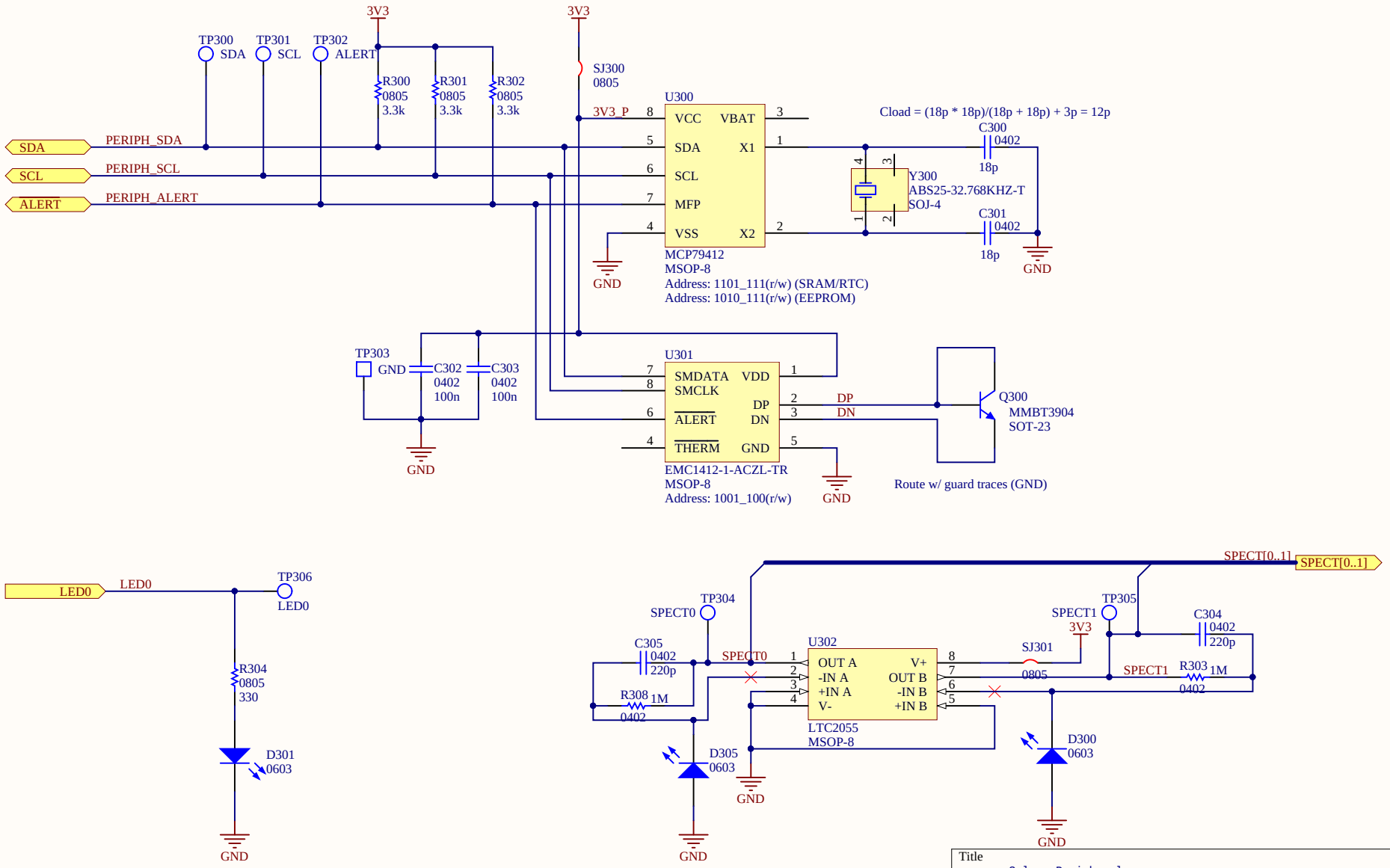
Title	Solens MPPC/SLA charger ERC PASS, FOOTPRINT OK, TESPOINTED	
Size: A4	Number	Revision
Date: 3/21/2017		Sheet 2 of 8
File: C:\Users\..\SolarCharger.SchDoc		Drawn By: TN, AY



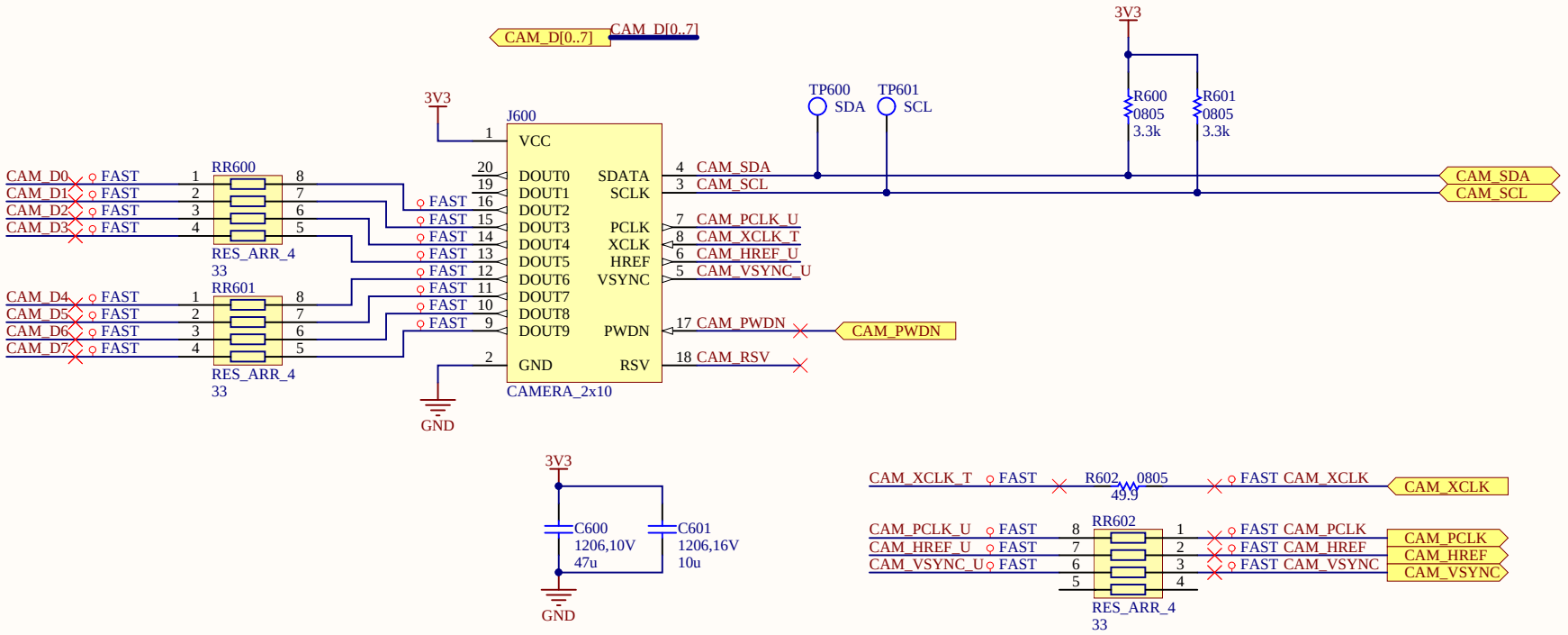
Title	Solens Voltage Regulators ERC PASS, FOOTPRINT OK, TESPOINTED	
Size: A4	Number	Revision
Date: 3/21/2017		Sheet 3 of 8
File: C:\Users\..\Regulators.SchDoc		Drawn By: TN, AY


SD_NRAS
SD_NRAS FAST R500 0805 49.9 FAST SD_NRAS_T
SD_NCAS
SD_NCAS FAST R501 0805 49.9 FAST SD_NCAS_T
SD_D[0..15]
SD_A[0..11]
SD_CKE1
SD_NE1
SD_NBL0
SD_NBL1
RR500
RES_ARR_4
49.9
SD_A8
SD_A9
SD_A10
SD_A11
RR502
SD_CLK
R502 0805 49.9
CLK
TP501
TP500
GND
U500
SD_A0_T
SD_A1_T
SD_A2_T
SD_A3_T
SD_A4_T
SD_A5_T
SD_A6_T
SD_A7_T
SD_A8_T
SD_A9_T
SD_A10_T
SD_A11_T
SD_BA0_T
SD_BA1_T
SD_NE1_T
SD_NWE_T
SD_NRAS_T
SD_NCAS_T
SD_CKE1_T
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11
BA0 BA1
CS WE RAS CAS CLK CKE
DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15
UDQM LDQM
NC NC
VDDQ VDDQ VDDQ VDDQ
GNDQ GNDQ GNDQ GNDQ
VDD VDD VDD
GND GND GND
3V3
IS42S16400J
TSOP-54
DATA termination to be placed halfway between MCU and RAM
RR505
RR504
RR503
RR506
RES_ARR_4
33
ADDR and CLK termination to be placed at MCU
RR507
RR501
RR508
RES_ARR_4
49.9
C500 C501 C502 C503 C504 C505 C506 C507
0402
100n
Title
Solens SDRAM
ERC PASS, FOOTPRINT OK, TESPOINTED
Size A4
Number
Revision
Date: 3/21/2017
Sheet 4 of 8
File: C:\Users\..\SDRAM.SchDoc
Drawn By: JL, AY

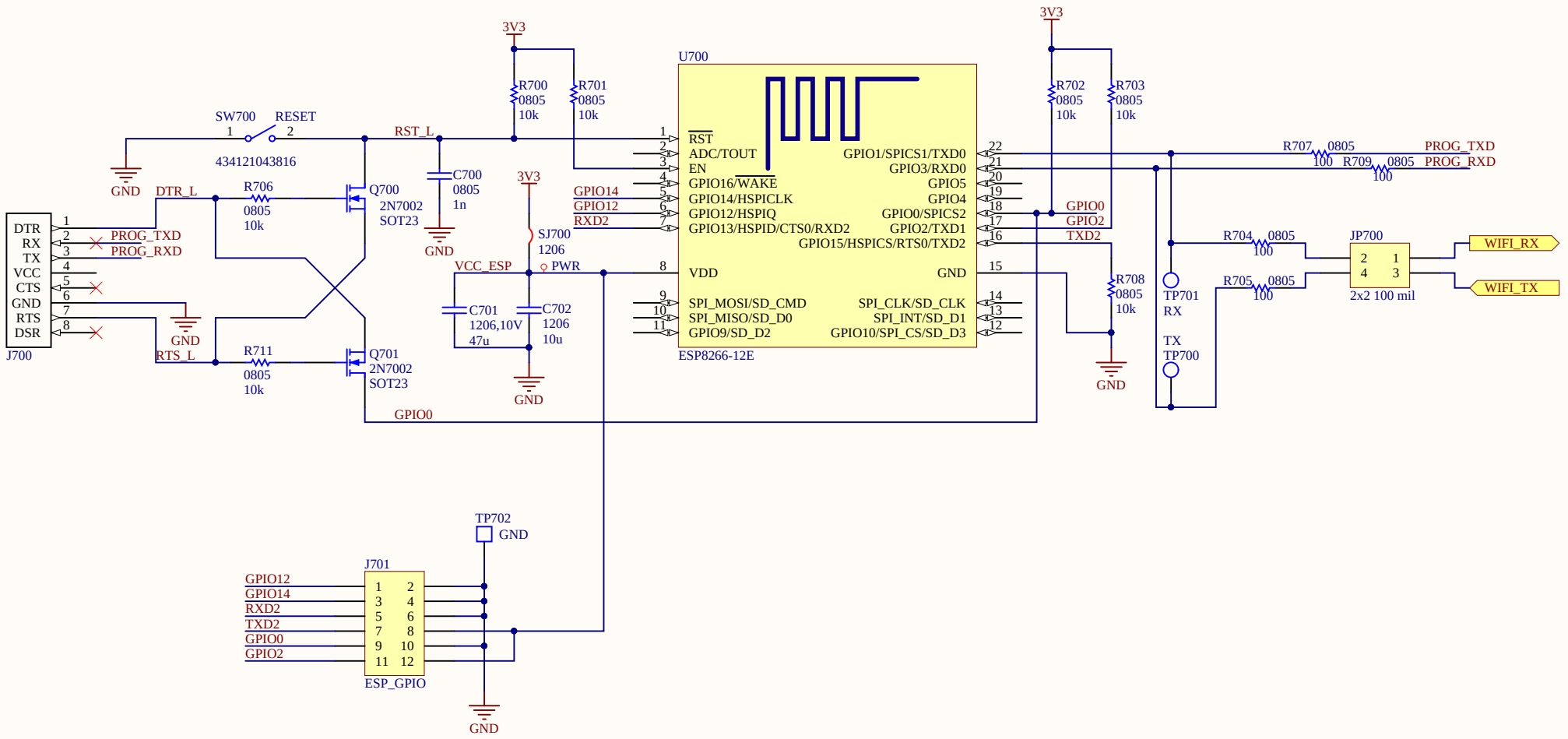

U100B
STM32F429
LQFP-144
LED1,2,3 are no longer connected to LEDs, but remain connected to GPIO header
J100
HDR_FTDI
J101
UART_EXTRA is optional, all components DNP and on bottom
Cload = (27p * 27p)/(27p + 27p) + 4p = 17.5p
Y100
9C-8.000MEEJ-T
HC-49S
Cload = (18p * 18p)/(18p + 18p) + 3p = 12p
Y101
ABS25-32.768KHZ-T
SOJ-4
12.5p
J102
GPIO
J103
HDR_SWD_2x6
U100A
STM32F429
LQFP-144
Solens Microcontroller
ERC PASS, FOOTPRINT OK, TESPOINTED
Size A4
Number
Revision
Date: 3/21/2017
Sheet 5 of 8
File: C:\Users\..\MCU.SchDoc
Drawn By: JL,AY



Title	Solens Peripherals ERC PASS, FOOTPRINT OK, TESPOINTED	
Size: A4	Number	Revision
Date: 3/21/2017		Sheet 6 of 8
File: C:\Users\..\Peripherals.SchDoc		Drawn By: AY



Title	Solens Camera Subsystem ERC PASS, FOOTPRINT OK, TESTPOINTED	
Size: A4	Number	Revision
Date: 3/21/2017		Sheet 7 of 8
File: C:\Users\..\Camera.SchDoc		Drawn By: JL, AY



Title	Solens WiFi Subsystem ERC PASS, FOOTPRINT OK, TESTPOINTED	
Size: A4	Number	Revision
Date: 3/21/2017		Sheet 8 of 8
File: C:\Users\..\WiFi.SchDoc		Drawn By: JL, AY