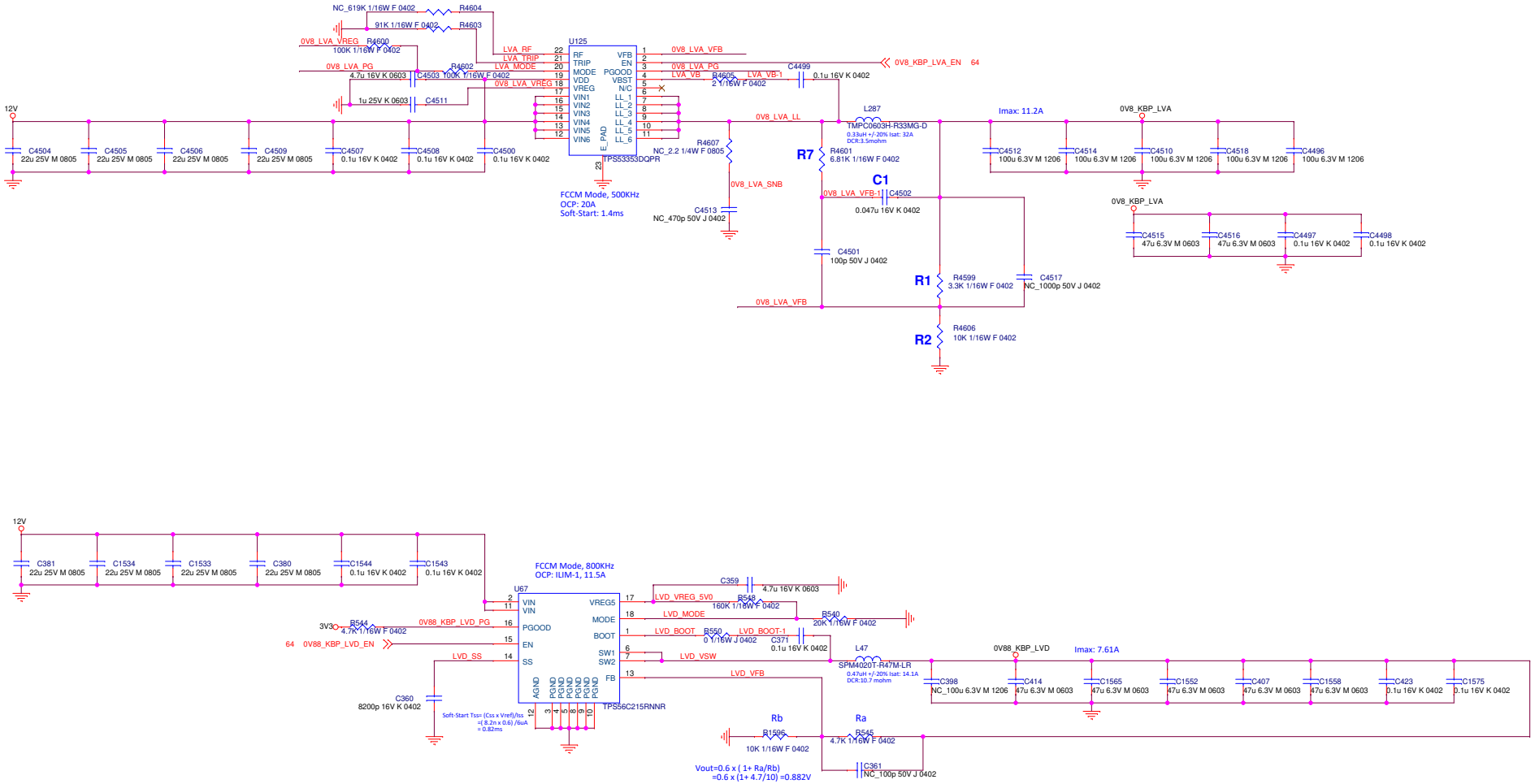
NC_619K 1/16W F 0402
R4604
91K 1/16W F 0402
R4603
0V8_LVA_VREG
R4600
100K 1/16W F 0402
0V8_LVA_PG
4.7u 16V K 0603
C4503
R4602
100K 1/16W F 0402
1u 25V K 0603
C4511
LVA_RF
LVA_TRIP
LVA_MODE
0V8_LVA_VREG
U125
RF
TRIP
MODE
VDD
VREG
VIN1
VIN2
VIN3
VIN4
VIN5
VIN6
VFB
EN
PGOOD
VBST
N/C
LL_1
LL_2
LL_3
LL_4
LL_5
LL_6
E_PAD
TPS53353DQPR
0V8_LVA_VFB
0V8_LVA_PG
LVA_VB
R4605
2.7 1/16W F 0402
LVA_VB-1
C4499
0.1u 16V K 0402
0V8_KBP_LVA_EN
64
12V
C4504
22u 25V M 0805
C4505
22u 25V M 0805
C4506
22u 25V M 0805
C4509
22u 25V M 0805
C4507
0.1u 16V K 0402
C4508
0.1u 16V K 0402
C4500
0.1u 16V K 0402
FCCM Mode, 500KHz
OCP: 20A
Soft-Start: 1.4ms
0V8_LVA_LL
R4607
NC_2.2 1/4W F 0805
0V8_LVA_SNB
C4513
NC_470p 50V J 0402
L287
TMPC0603H-R33MG-D
0.33uH +/-20% Isat: 32A
DCR:3.5mohm
Imax: 11.2A
0V8_KBP_LVA
R7
R4601
6.81K 1/16W F 0402
C1
0V8_LVA_VFB-1
C4502
0.047u 16V K 0402
C4501
100p 50V J 0402
R1
R4599
3.3K 1/16W F 0402
C4517
NC_1000p 50V J 0402
0V8_LVA_VFB
R2
R4606
10K 1/16W F 0402
C4512
100u 6.3V M 1206
C4514
100u 6.3V M 1206
C4510
100u 6.3V M 1206
C4518
100u 6.3V M 1206
C4496
100u 6.3V M 1206
0V8_KBP_LVA
C4515
47u 6.3V M 0603
C4516
47u 6.3V M 0603
C4497
0.1u 16V K 0402
C4498
0.1u 16V K 0402
12V
C381
22u 25V M 0805
C1534
22u 25V M 0805
C1533
22u 25V M 0805
C380
22u 25V M 0805
C1544
0.1u 16V K 0402
C1543
0.1u 16V K 0402
FCCM Mode, 800KHz
OCP: ILIM-1, 11.5A
U67
VIN
VIN
PGOOD
EN
SS
VREG5
MODE
BOOT
SW1
SW2
FB
AGND
PGND
TPS56C215RNNR
C359
4.7u 16V K 0603
LVD_VREG_5V0
R548
160K 1/16W F 0402
LVD_MODE
R540
20K 1/16W F 0402
3V3
R544
4.7K 1/16W F 0402
0V88_KBP_LVD_PG
64
0V88_KBP_LVD_EN
LVD_BOOT
R550
0 1/16W J 0402
LVD_BOOT-1
C371
0.1u 16V K 0402
LVD_SS
LVD_VSW
L47
SPM4020T-R47M-LR
0.47uH +/-20% Isat: 14.1A
DCR:10.7 mohm
0V88_KBP_LVD
Imax: 7.61A
LVD_VFB
C360
8200p 16V K 0402
Soft-Start Tss= (Css x Vref)/Iss
=(8.2n x 0.6) /6uA
= 0.82ms
C398
NC_100u 6.3V M 1206
C414
47u 6.3V M 0603
C1565
47u 6.3V M 0603
C1552
47u 6.3V M 0603
C407
47u 6.3V M 0603
C1558
47u 6.3V M 0603
C423
0.1u 16V K 0402
C1575
0.1u 16V K 0402
Rb
R1596
10K 1/16W F 0402
Ra
R545
4.7K 1/16W F 0402
Vout=0.6 x (1+ Ra/Rb)
=0.6 x (1+ 4.7/10) =0.882V
C361
NC_100p 50V J 0402