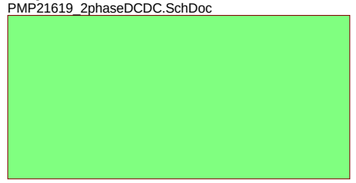
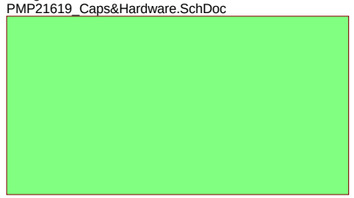
Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A

Designator
PMP21619_2phaseDCDC.SchDoc



Designator
PMP21619_Caps&Hardware.SchDoc



Orderable: ChangeMe in variant		Designed for:	Mod. Date: 8/14/2018
TID #: N/A		Project Title: Two phase DC/DC TPS543C20 with lots of Cout	
Number: PMP21619	Rev: A	Sheet Title:	
SVN Rev: Version control disabled		Assembly Variant: 001	Sheet: 1 of 3
Drawn By:		File: PMP21619_CoverSheet.SchDoc	Size: B
Engineer: Josh Mandelcorn		Contact: http://www.ti.com/support	

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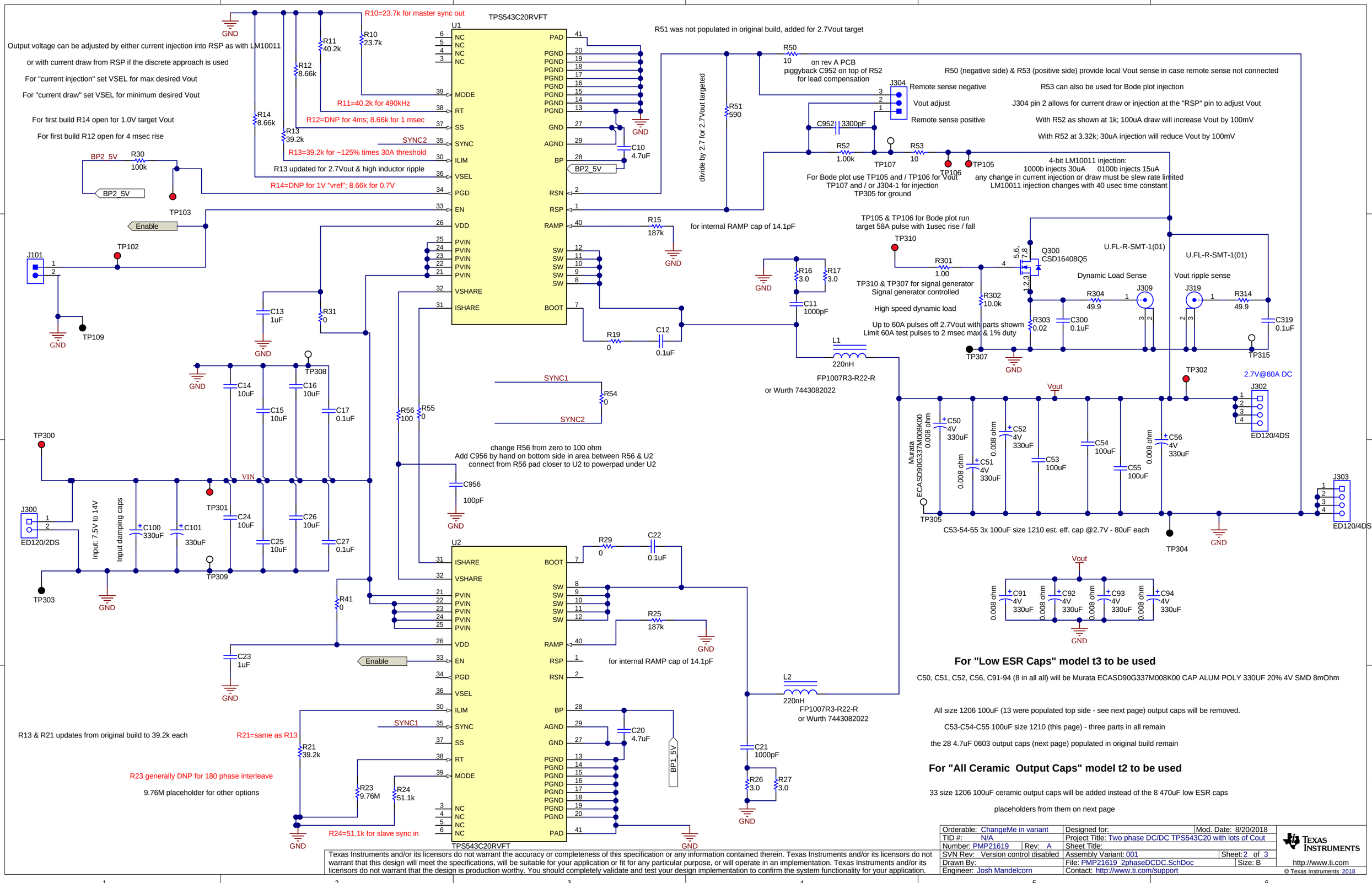
R13 updated for 2.7



Orderable: ChangeMe in variant		Designed for:	Mod. Date: 8/20/2018
TID #: N/A		Project Title: Two phase DC/DC TPS543C20 with lots of Cout	
Number: PMP21619	Rev: A	Sheet Title:	
SVN Rev: Version control disabled		Assembly Variant: 001	Sheet: 2 of 3
Drawn By:		File: PMP21619_2phaseDCDC.SchDoc	Size: B
Engineer: Josh Mandelcorn		Contact: http://www.ti.com/support	

H1 1 NY PMS 440 0025 PH
H2 1 NY PMS 440 0025 PH
H3 1 NY PMS 440 0025 PH
H4 1 NY PMS 440 0025 PH

DNP FID1
DNP FID2
DNP FID3

H5 1902C
H6 1902C
H7 1902C
H8 1902C

Variant/Label Table	
Variant	Label Text
001	all ceramic output caps
002	Low ESR Poly caps

LBL1
PCB Label
THT-14-423-10
Size: 0.65" x 0.20 "

PCB Number: PMP21619
PCB Rev: A

PCB LOGO
FCC disclaimer

ZZ1
Label Assembly Note
This Assembly Note is for PCB labels only

PCB LOGO
Texas Instruments

August 14-16, 2018

Based upon latest requirements will target 2.7Vout at 60A off 12Vin
500kHz per phase & 220nH inductors: Stays the same as before.
was 1.0Vout previously

For both 2.7V models:

R51 (prev. page - voltage divider with 1.0k R52) at 590 ohms will be added to set Vout at 2.7V
3300pF piggybacked on R52

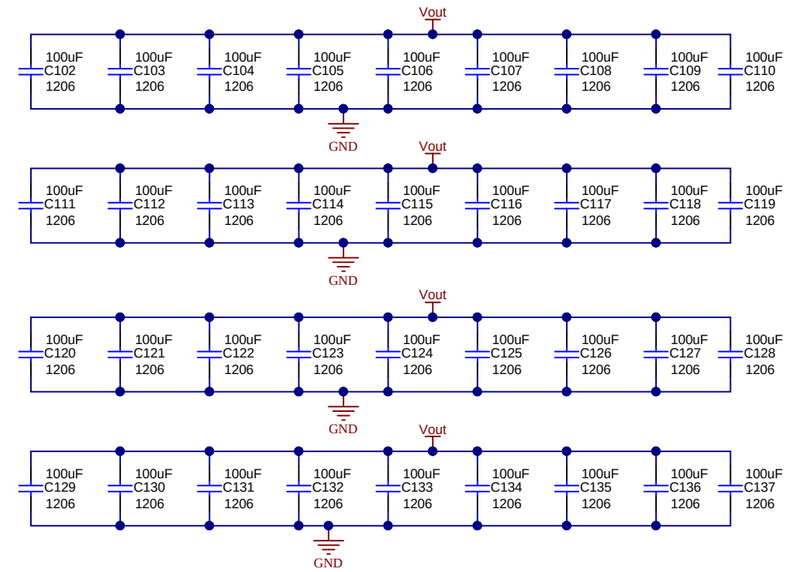
R13 & R21: (current limit) updated for 2.7Vout & high inductor ripple to be 39.2k
R56 updated to 100 ohms, C956 added by hand: 100pF - see previous page
Make sure R15 & R25 are 187k each for "RAMP"
28 of the 4.7uF caps will remain: No changes
The 3 size 1210 100uF ceramic caps near the converters to handle inductor ripple are populated (see previous page)

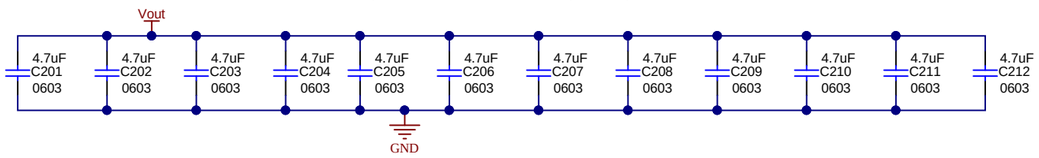
For the "all ceramics output caps" version model t2:

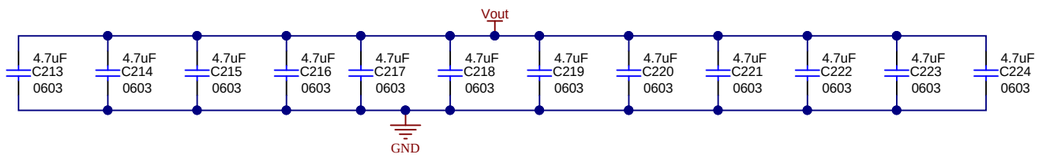
All 8 of the 470uF output caps will be removed (now all on previous page)
33 of the 36 100uF size 1206 caps on this page will be populated

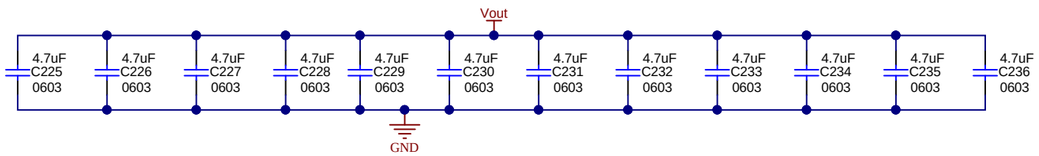
For "Low ESR Caps" model t3 to be used

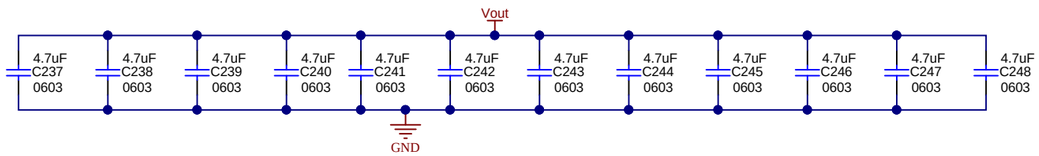
Instead of the 33 100uF size 1206 caps: C50, C51, C52, C56, C91-94 (8 in all all) will be Murata ECASD90G337M008K00 CAP ALUM POLY 330UF 20% 4V SMD 8mOhm

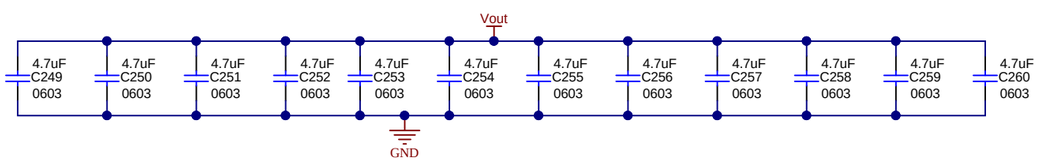


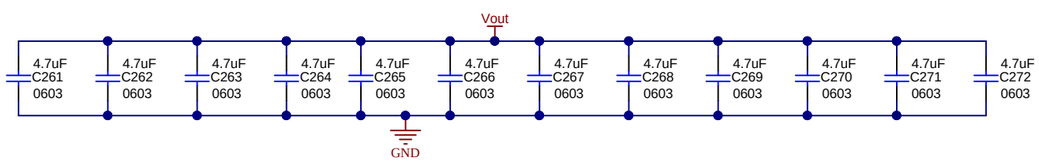


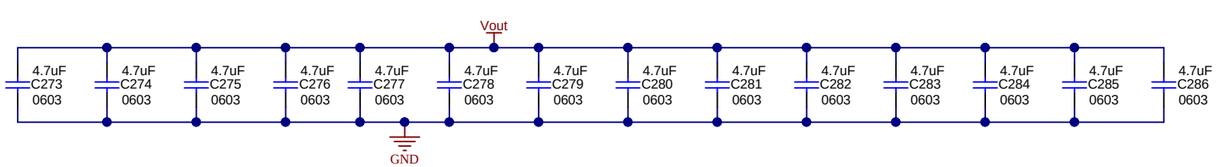












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