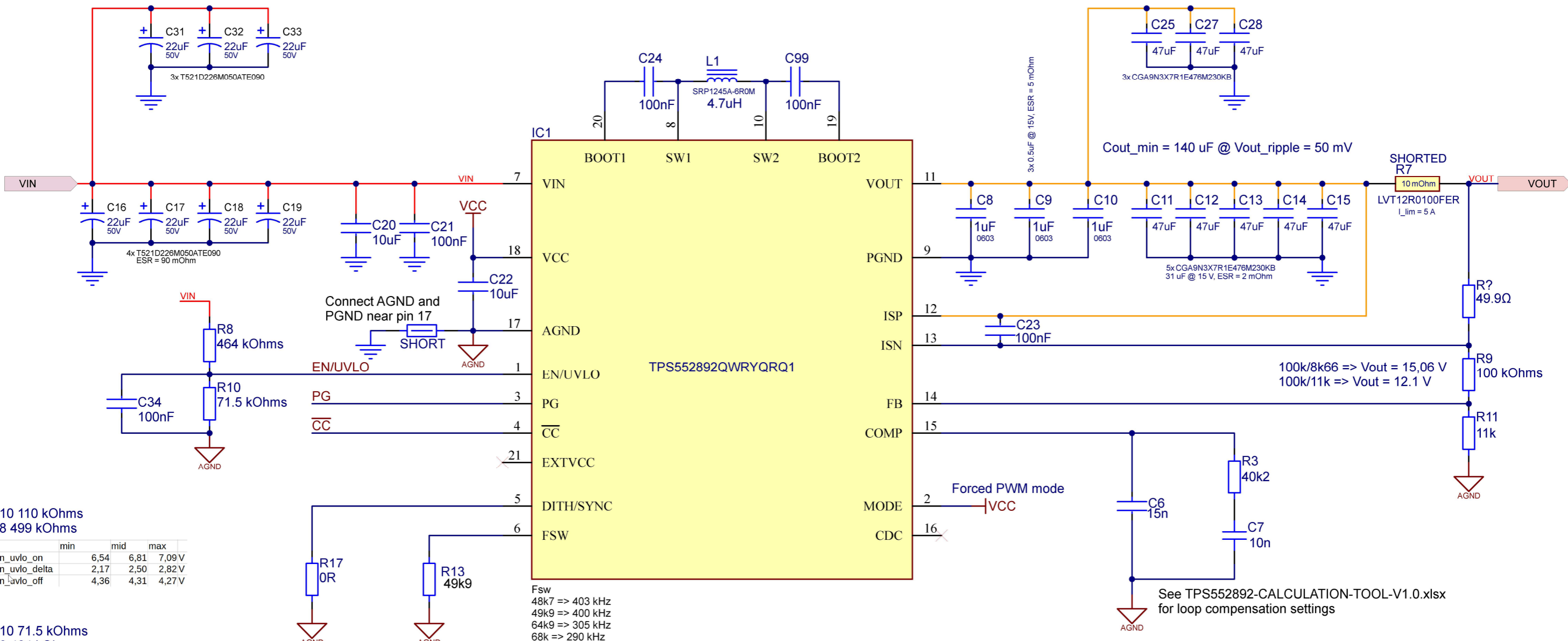
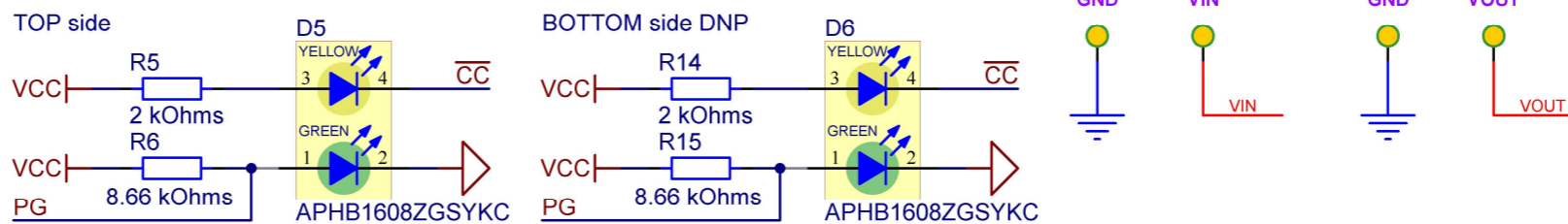


Power good and constant current mode indication



R10 110 kOhms
R8 499 kOhms

	min	mid	max
Vin_uvlo_on	6,54	6,81	7,09 V
Vin_uvlo_delta	2,17	2,50	2,82 V
Vin_uvlo_off	4,36	4,31	4,27 V

R10 71.5 kOhms
R8 464 kOhms

	min	mid	max
Vin_uvlo_on	8,83	9,21	9,60 V
Vin_uvlo_delta	2,57	2,32	2,62 V
Vin_uvlo_off	6,26	6,89	6,98 V

Dith
0R => dith disabled
5.6 nF => 1000 Hz @ Fsw 300kHz

Feedback Loop Compensation variants

	L 10uH	L 4u7	L 4u7	L 4u7	L 4u7	Ion 3.1 A @ 9 V	Ion 3.5 A @ 24 V	Vout 12 V
C6	30p	200p	6n8	13n	15n	L 4u7	L 4u7	L 6u
R3	40k2	20k5	20k5	36k	30k1	R3 40k2	R3 40k2	R3 40k2
C7	4n7	4p7	4p7	8n	10n	C7 10n	C7 10n	C7 10n
C99	64k9	64k9	64k9	64k9	64k9	R13 64k9	R13 64k9	R13 49k9

Cout_min = 140 uF @ Vout_ripple = 50 mV

100k/8k66 => Vout = 15,06 V
100k/11k => Vout = 12.1 V

See TPS552892-CALCULATION-TOOL-V1.0.xlsx for loop compensation settings