

Calculations

Part Number		TPS63001	TPS63002
(VIN1)	VIN MAX	4,20 V	4,20 V
(VIN2)	VIN MIN	2,50 V	2,50 V
	min Frequency	1250,0 kHz	1250,0 kHz
		1250000 Hz	1250000 Hz
	VOUT	3,30 V	5,00 V
	IOUT	1,00 A	1,00 A
Inductor			
Min L for StepDown	L1	0,0000019 H	-0,0000025 H
		1,89 uH	0,00 uH
Min L for Boost Mode	L2	0,0000016 H	0,0033333 H
		1,62 uH	3,33 uH
	L Min	1,50 uH	1,50 uH
	L Max	4,70 uH	4,70 uH
	L	1,89 uH	3,33 uH
	L selected	3,30 uH	3,30 uH
		0,0000033 H	0,0000033 H
L1 Step down	Part 1	1,25	
	Part 2.1	2,97	
	Part 2.2	34,65	
	Part 2	0,0857143	
	result	1,34 A	1,13 A
L2 Boost Mode	Part 1.1	3,3	5
	Part 1.2	2	2
	Part 1	1,65	2,5
	Part 2.1	2	6,25
	Part 2.2	27,225	41,25
	Part 2	0,0734619	0,15151515
	result	1,72 A	2,65 A
	I	1,72 A	2,65 A