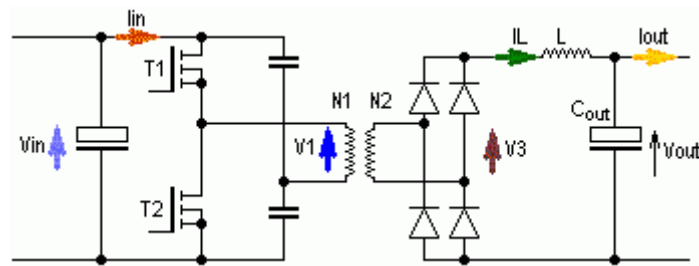Home Help Print

Half-Bridge Push-Pull Converter

V_{in_min} / V	V_{in_max} / V		V_{in} / V for the calculations
300	360		300

V_{out} / V	I_{out} / A	f / kHz	
110	10	70	Calculate

	L / H	$?I_L$ / A for V_{in_max}	
☑ Proposal	41.34E-6	4	Coil Data
☑ Proposal	N_1 / N_2 :	1.28	Transformer Data

The values of all input fields can be changed.

The proposed value for L is chosen so that $?I_L=0,4 \cdot I_{out}$ for $> V_{in\_max}$.

The proposed value for N_1/N_2 is chosen such that V_{out} is just achieved when Vin= V_{in_min}.

The cores are suggested in such a way that they do not warm up any more to than approx. 30 K in relation to the ambient.

The wire cross sections are always suggested for a current density of 3A/mm^2

Tip: Its best not to modify N_1/N_2 ;-)

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