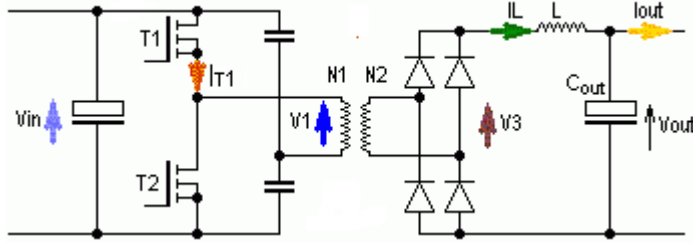


[Home](#)
[Help](#)
[Print](#)

Half-Bridge Push-Pull Converter


 V_{in_min} / V

400

 V_{in_max} / V

400

 V_{in} / V for the calculations

400

 V_{out} / V

24

 I_{out} / A

4

 f / kHz

50

Calculate

 L / H

33E-6

 $\Delta I_L / A$ for V_{in_max}

0.39

Coil Data

☐ Proposal

 $N_1 / N_2 :$

7.48

Transformer Data

☒ Proposal

The values of all input fields can be changed.

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

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

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/mm²

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

[Print](#)
[Save](#)

Half Bridge Push-Pull Converter

$V_{in_min} = 400.0V$	$V_{in_max} = 400.0V$	$V_{in} = 400.0V$
$V_{out} = 24.0V$	$I_{out} = 4.0A$	$f = 50.0kHz$
$L = 33.0\mu H$	ΔI_L for $V_{in_max} = 0.39A$	$N_1/N_2 = 7.48$

