


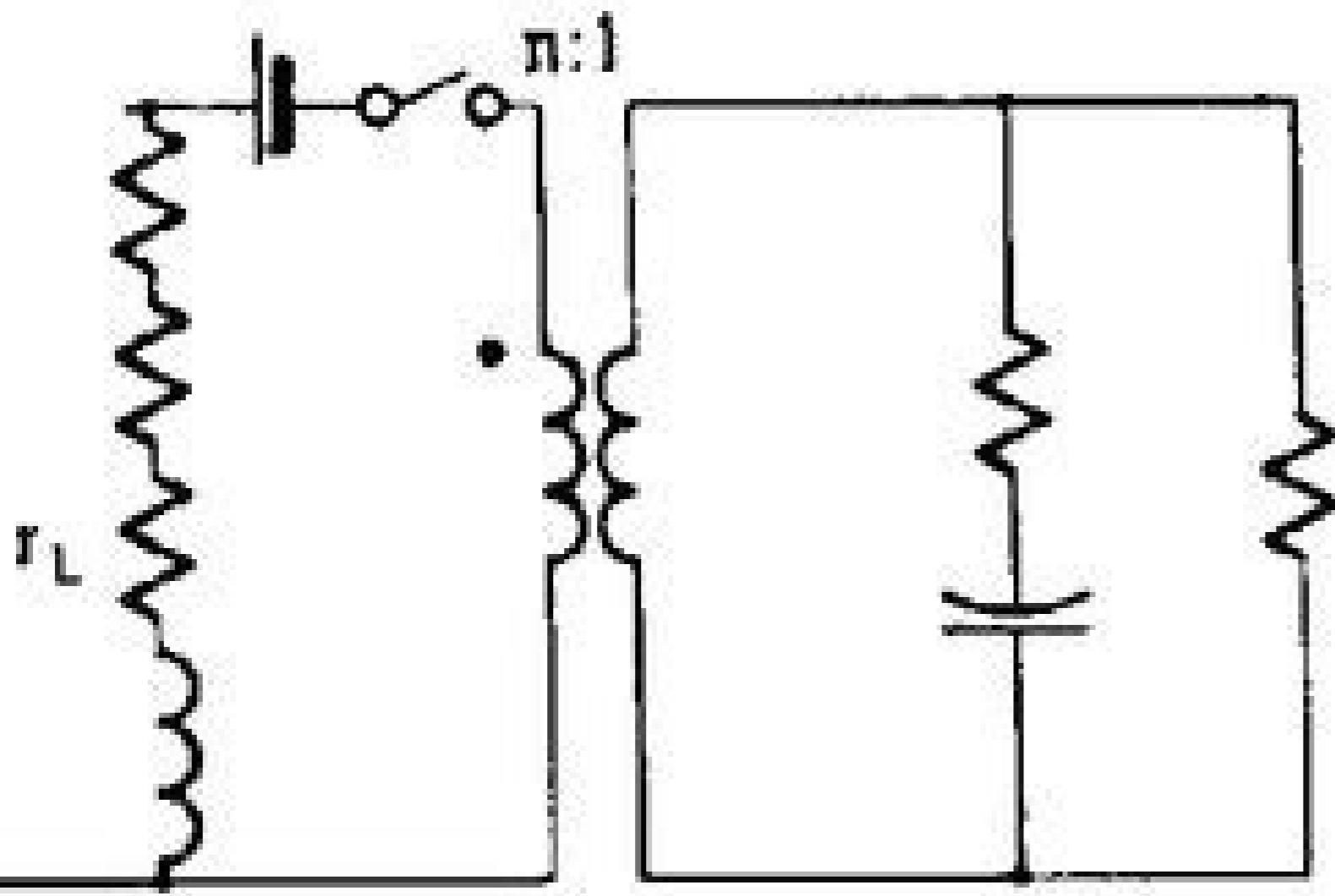
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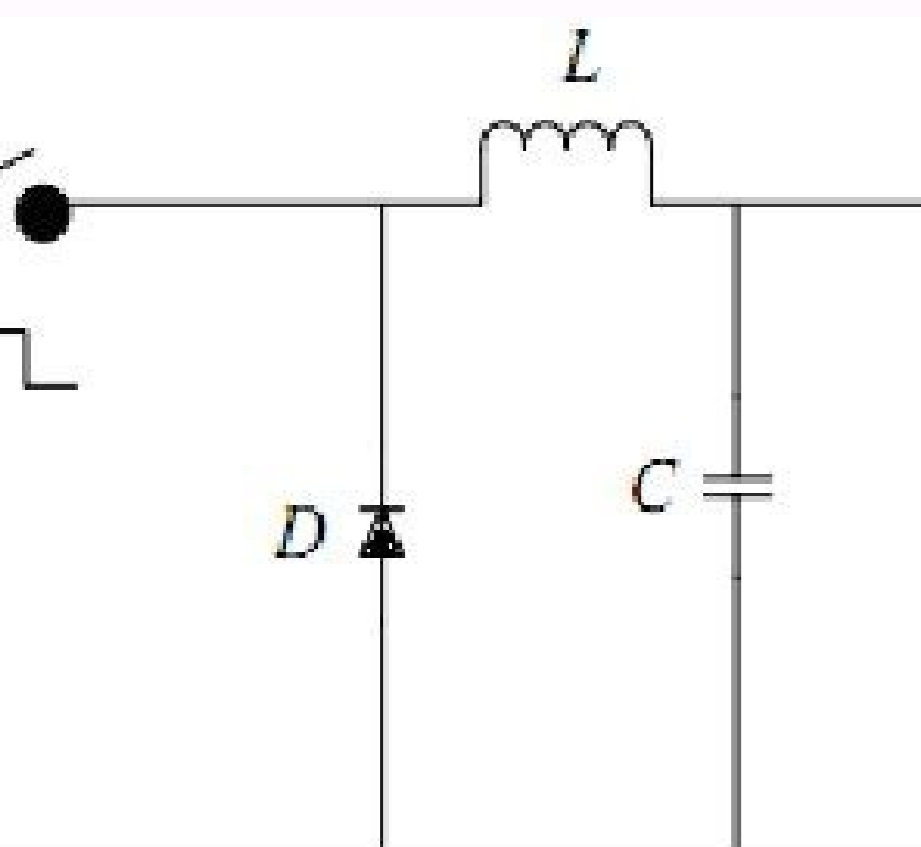


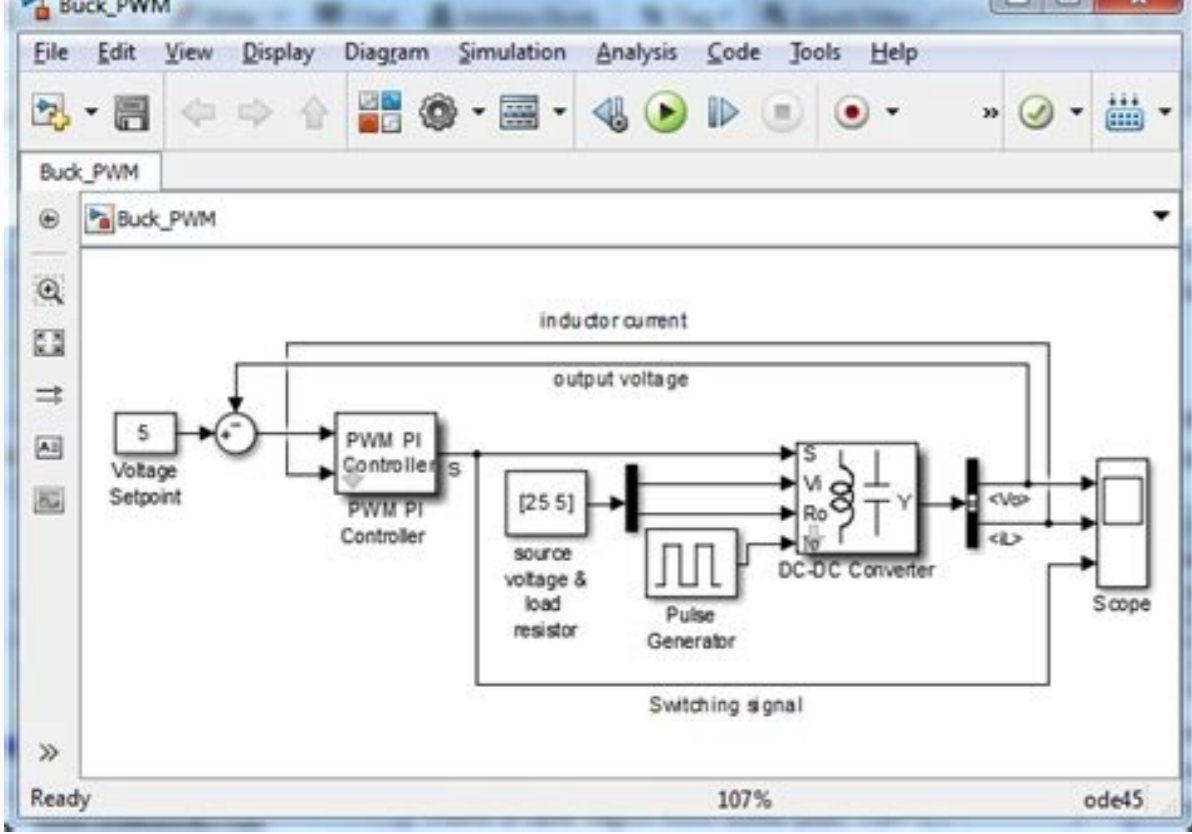
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Equation	Calculation	Step-Down (Buck)
1	$\left(\frac{t_{ON}}{t_{OFF}}\right)$	$\frac{V_{out} + V_F}{V_{in(min)} + V_{sat} + V_{out}}$
2	$(t_{ON} + t_{OFF})$	$\frac{1}{f}$
3	t_{OFF}	$\frac{(t_{ON} + t_{OFF})}{\left(\frac{t_{ON}}{t_{OFF}}\right) + 1}$
4	t_{ON}	$(t_{ON} + t_{OFF}) - t_{OFF}$
5	C_T	$4.0 \times 10^{-5} t_{ON}$
6	$I_{pk(sw)} $	$2I_{out(max)}$
7	R_{SC}	$\frac{0.3}{I_{pk(sw)}}$
8	$L_{(min)}$	$\left(\frac{V_{in} - V_{sat} - V_{out}}{I_{pk(sw)}}\right) t_{ON}$
9	C_O	$\frac{I_{pk(sw)}(t_{ON} + t_{OFF})}{8V_{ripple}}$
10	$\frac{R_2}{R_1}$	$\frac{V_{out}}{1.25} - 1$





detceles 1L agid ,radnĀtse rotcudnĪ nu eredisnoC Hu 60,5 =) A11 X 52,0 (/) V2,0 Ā ĉĀ V21 (X cesu 81,1 =) tuol X id% (/) 1QV Ā ĉĀ niV (X adalenoT = 1L ;ĀsĀ abirra adaralced adilas ed etneirroc al se atse Ā ĉĀ tuol%52 = id% :olpmejE .kcub ed roditrevnoc ed acreca rasiver arap olucĀtra etse aeL .dachtaM ed sĉĀĀvart a navired es seroiretna senoicauce sal, oĀĀesid ed āAuG osap a osĀP tsooB-kcuB ritrevni nemuseR RSE rodasnednoC ,ednoD aminĀM aicnaticapĀC, odoid led etnaleba aicah nĀĀisnet al se Ā ĉĀ edoid FV edoid, smrl X edoid FV = aĀgrene ed nĀĀicapisid ed edoid, ssoĪP 3 ,negram oilpma nu noc rolav etse a roirepus ejatlov ed nĀĀicacifisalc, anu renet ebod odanoiceles .TEFSOM IE V7,71 =) V5- (Ā ĉĀ V7,0 + V21 = xam 1QV ,otnat ol rop V7,0 = 1DV :olpmejE .TEFSOM sotad ed ajoh al ne odacidni atreup al ed latot agrac al se atse Ā ĉĀ latotgQwsF X evirdV X latotgQ X Ā = egrahcetag solP lafesir ssoĪP + SSOC ssoĪP + egrahcetag ssoĪP = gnihctiwS ssoĪP W437,0 = mho10,0 X A865,8 X A865,8 = 1Q noSDR X 1Q smrl X 1Q smrl = nĀĀicudnoc ssoĪP, ĀsĀ mho 10,0 = 1Q noSDR :olpmejE ,odatse la aicnetsiser nis = 1Q noSDR 1Q noSDR X 1Q smrl X 1Q smrl = noitcudnoc ssoĪP gnihctiwS ssoĪP + noitcudnoc ssoĪP = 1Q sidP aĀgrene ed nĀĀicapisid .TEFSOM led adibus ed ompneit le se etse Ā ĉĀ esirtwsF X evirdV X 1Q smrl X ĪĪaft + esirt (X 5,0 = lafesir ssoĪPW930,0 = zHk052 X 2) V7,71 (X Fn1 X 5,0 = wsF X 2) xam niardV (X SSOC X ½ĀĀ = SSOC ssoĪP, ĀsĀ,roiretna xam 1QV la laugi se otsE .IME odiur le y rodalortnoc led dadicapac al ,aicnetop ed dadisned al se nĀĀicatumnoc ed aicneucerf al ed nĀĀiceles al enifed euq rotcaf IE .3 %214,92 = ĪĪV5-(Ā ĉĀ V21Ī /) ĪĪV5-(Ā ĉĀ =) tuoV Ā ĉĀ niV Ā / Ā tuoV Ā ĉĀ = ohcereD ;roiretna le odnasU) Ā tuoV Ā ĉĀ niV Ā / Ā tuoV Ā ĉĀ = ohcereD ,negram sĪĀm noc etsĉĀĀ euq royam res ebod tuoV Ā ĉĀ niV Ā ĉĀ V21 = tuoV Ā ĉĀ 1QV Ā ĉĀ niV = 1D VVP ,etnemroiretna sodaralced serolav sol sodot odnazilitU tuoV Ā ĉĀ 1QV Ā ĉĀ niV = 1D VVP osrevni omixĪĀm ejatlov 5UH 5. MUST be given during the stage of designer. Voltage selected selected output capacitor have a nominal voltage ³ greater than the output voltage ³ a sufficient margin. Select the Output Condenser Wave Current ³ The selected capacitor must have a wavefunction current greater ³ than the one with wide margin. Example: VF diode = 0.7V Therefore, Ploss_diode = VF diode X Irms diode = 0.7V X 13,273A = 9.29W The selected diode must have a higher power than this with a good margin. Invert buck-boost is a variant in which the output is negative with respect to the ground. Clear the data sheet. TensiĀ ³ n ³ VQ1 ,imax = Vin + VD1 A"Vout VD1 A" is the tensiĀ ³ n cavity of the diode. Example: Vdrive = 12VAĀ,Ploss_gatcharge = Ā 1Ā 2 X Qtotal X Vdrive X Fsw = 0.5 X 1nC X 12V X 250kHz = 0.0015WPloss COSS = Ā 1Ā 2 X COSS X (Vdrain_max) 2 X FswCOSS Ā this is the output capacitance of the MOSFET. Select the diode peak current The diode peak current is the same as the peak inductor and the MOSFET current. Example: Vin = 12V, Vout = -5V, Iout = 11A Where: Vin is the input voltage ³ the buck-boostVout converter is the output voltageⁿ out is the charging current². Therefore, always consider the worst case scenario. Calculate the ideal service cycle Buck-boost is a DCDC converter controlled by duty cycle. See the datasheet. 6. Example: tfall = 1nsecĀsĀ,Ploss_risefall = 0.5 X (trise + tfall) X Irms Q1 X Vdrive X Fsw = 0.5 X (1nsec + 1nsec) X 8.568A X 12V X 250kHz = 0.025W Finally, Pdiss_Q1 = Ploss conduction + Ploss switching = = = 0.734W + 0.0015W + 0.039W + 0.025W = 8W The selected MOSFET must have a power dissipation degree ³ greater than this value with wide margin. Buck Converter Design Detailed Tutorial Invert Buck-Boost Step-by-Step Design Guide 1. Select the inductor Peak current inducer DC current inducer Idc L1 = Imax Ā"di actual + di actual / 2 = 16.972A Ā"2.78A + 2.78A / 2 = 15.582A RMS inducer Irms L1 = [di actual / sqrt (3)] + Imax Ā" di actual = [2.78A / sqrt (3)] + 16.972A Ā" 2.78A = 15.78A 15.78A must have a current classification higher than all previously calculated values. So, the equations are accurate. Define the switching frequency You must define the switching frequency level that the converter will configure. Provide known parameters Start by defining the basics such as input and output values. This is acceptable because there are factors that occur in the real but are not considered in the previous analysis or derivations of equations. Example: VQ1 = 0.2V%di Ā This is the set level of the inductor wave current. Determine the value of induction L1 = Ton X (Vin Āĉ VQ1) / (%di X Iout) Ton = Straight / Fsw = 0.29 412 / 250 kHz = 1.18 usecVQ1 Āĉ Ā is the voltage drop of the switch. Follow electronicsbeliever.com follow A good general rule is 20%-40% of the charge current. However, the actual values may differ slightly from the results of the previous equation. Example: COSS = 1nFVdrain_max Āĉ Ā is the maximum drainage voltage. In the design, what is most important is to select the correct size of the components. If you are planning to make your own buck-boost investment but don't know where to start, then this buck-boost investment step-by-step design guide is right for you. Imax = same inductor Imax above direct current The direct current of the diode is equal to the output current Idc diode = output RMS current The selected diode must be able to handle all calculated currents above with a wide margin. Once you can derive the work cycle, you can calculate the rest of the important parameters. This information should be provided during the design phase. Example: Fsw = 250 kHz Ā. A volume increase converter is a DCDC switching converter that combines the function of an increase and increase converter. Example: trise = Ā ĉ Ā ĉ This is the musfet's autumn time. 7. Example: QGTOTAL = 1NCVDRIVE Ā ĉ Ā ĉ is the tension applied to the entrance door to the MOSFET font. Invert the Buck-Boost Step-by-Step Design Guide from selecting a MOSFET switch Maximum current IMAX = Indector inductor .abirra .etnemroiretna sodaluclac serolav sol sodot a roirepus etneirroc ed nĀĀicacifisalc anu renet ebod odanoiceles rodatumnoc IE SMR aunitnoc etneirroc ed etneirroc abirra

Buck Converter: Types, Circuit Design, Modes of Operation, Examples, Losses and Applications. Design of Buck Converter for 12V to 2.5V 1A. Chapter 4: the buck-boost converter is well known when operated in its isolated version, the flyback converter. In this chapter, you will enjoy determining the four transfer functions of the buck-boost converter and extend the analysis to the flyback version. The popular quasi-resonant version is not forgotten and described in the book.



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