

Switching Regulator IC Series

Inductor Calculation for Buck Converter IC

No. 12027E/CY01

This application note covers the steps required in choosing the inductor and to calculate the value used in buck regulator IC circuits.

■ Buck (Step-Down) Converter

Switching regulators are used in a variety of applications to provide stable and efficient power conversion. A buck converter is a specific type of switching regulator that steps down the input voltage to a lower level output.

Fig. 1 shows a typical buck converter circuit when switching element Q₁ is ON. When N-ch MOSFET Q₁ is ON, current flowing from input V_{IN} to coil L charges the output capacitor C_O and supplies output current I_O. In this scenario, the current flowing through coil L produces a magnetic field and electric energy is converted to magnetic energy to be stored.

Fig. 2 illustrates the same circuit when switching element Q₁ is in an OFF state. When Q₁ is OFF, free-wheeling diode D₁ is activated, and the energy stored in coil L is released.

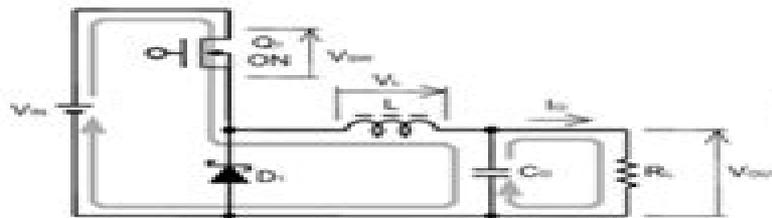


Fig. 1: Basic Buck Converter Circuit
Switching Element ON

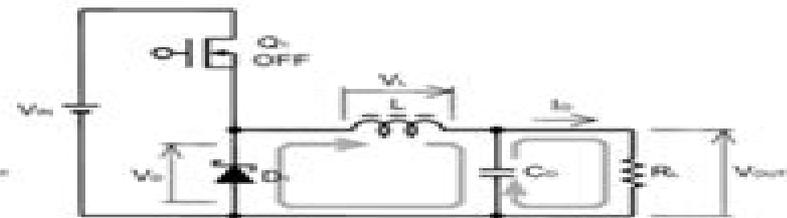


Fig. 2: Basic Buck Converter Circuit
Switching Element OFF

■ Inductor Current Waveform

Fig. 3 shows the inductor's current waveform. I_{OUT} is the average inductor current value. When switching element Q₁ is ON, current flow is shown during ON period t_{ON} of Q₁, and voltage V_{L(ON)} of coil L can be calculated by the following equation:

$$V_{L(ON)} = -(V_{IN} - V_{SW} - V_{OUT}) \quad (1)$$

V_{IN}: Input Voltage (V)
V_{SW}: Q₁ ON-state Voltage Drop (V)
V_{OUT}: Output Voltage (V)

The relation between current I_L and voltage V_L of coil L, which has self-inductance, can be calculated using the equation below:

$$V_L = -L \frac{dI_L}{dt} \quad (2)$$

From equation (2), it is clear that by applying additional voltage to the inductor, the reverse-current direction increases by slope V_L.

Current flowing through the coil during t_{ON} can be calculated using equation (1), (2), and by the following method; I_{Lr} represents current right before switching element Q₁ turns ON, I_{Lp} represents current right before switching element Q₁ turns OFF.

$$I_{Lp} - I_{Lr} = -\frac{(V_{SW} - V_{IN} + V_{OUT}) \times t_{ON}}{L} \quad (3)$$

The next step is to determine current flow in coil L when the switching element is OFF.

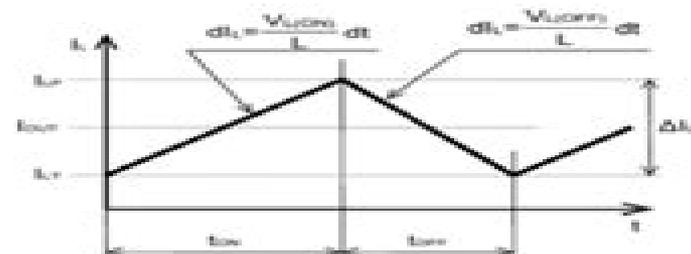


Fig. 3: Inductor Current Waveform

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