

## Section 5 Inductor and Flyback Transformer Design

Filter inductors, boost inductors and flyback transformers are all members of the "power inductor" family. They all function by taking energy from the electrical circuit, storing it in a magnetic field, and subsequently returning this energy (minus losses) to the circuit. A flyback transformer is actually a multi-winding coupled inductor, unlike the true transformer discussed in Section 4, whose energy storage is indefinitely.

### Application Considerations

Design considerations for this family of inductors vary widely, depending on the type of circuit application and such factors as operating frequency and ripple current.

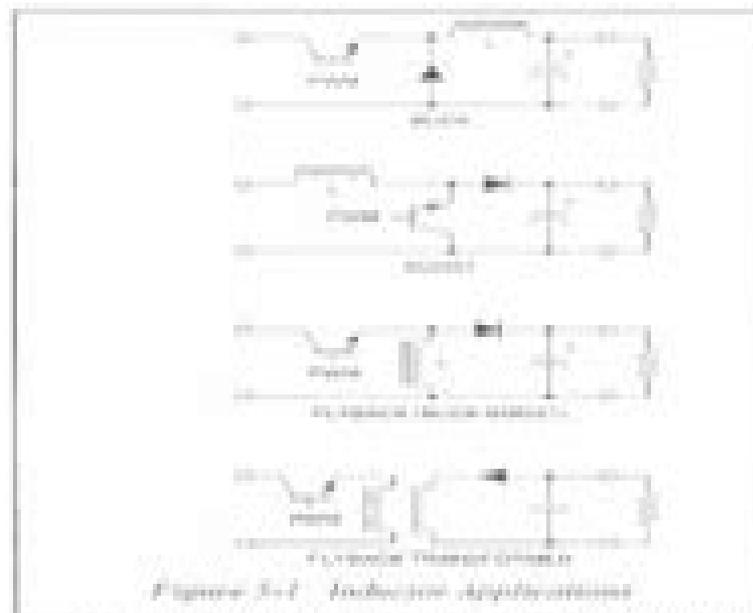
Inductor applications in switching power supplies can be defined as follows (see Fig. 5-1):

- *Single winding inductors:*
  - Output filter inductor (buck-derived)
  - Boost inductor
  - Flyback (buck-derived) inductor
  - Input filter inductor
- *Multiple winding inductors:*
  - Coupled output filter inductor<sup>(1)</sup>
  - Flyback transformer

Inductor design also depends greatly on the inductor current operating mode (Figure 5-2):

- *Discontinuous inductor current mode*, when the instantaneous temperature (limited in all voltage ripples) does not rise for a portion of each switching period.
- *Continuous inductor current mode*, in which the total temperature does not dwell at zero (although the current may pass through zero).

In the continuous current mode, the ripple current is often small enough that no winding loss and no core loss may be significant, but in the discontinuous mode, no losses may dominate.



**Design limitations:** The most important limiting factors in inductor design are (a) temperature rise and efficiency considerations arising from core losses and no and dc winding losses, and (b) core saturation.

**Output filter inductor (buck-derived)**—single and multiple windings are seldom operated in the discontinuous current mode because of the added burden this places on the output filter capacitor, and because it results in poor cross-regulation in multiple output supplies. Typically operated in the continuous mode with peak peak ripple current much smaller than full load current, ac winding loss is usually not significant compared to dc loss.

# Magnetics Design 5 Inductor And Flyback Transformer Design

**Xiaolong Qi**



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