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~~Converter Critical Inductance Value~~

ElectronicBits#22 - HF Power Inductor

Design *High frequency Power Inductor*

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~~5.4.3 Filter Inductor Design How~~

~~INDUCTOR's work & How to make~~

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Mod-04 Lec-05 Inductor ~~Energy Stored in~~

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~~an Inductor~~ DIY 2400W SMPS Inductor
Design: You can do this! 8.02x - Lect 20 -
Inductance, RL Circuits, Magnetic Field
Energy ~~Inductors and Inductance~~

Induction Heater - 6" Coil vs. 1/2" bar

How to making inductor part 2(Ferrite
& Iron powder toroid cores) 8.02x -
Lect 16 - Electromagnetic Induction,

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Faraday's Law, Lenz Law, SUPER DEMO

How Inductors Work Within a Circuit -

Inductance **SMPS Tutorial (5): Inductor Basics, Magnetic Circuits, Switched Mode Power Supplies**

#90: Measure Capacitors and Inductors with an Oscilloscope and some basic parts

Inductive spiking, and how to fix it! ~~How~~

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~~to choose the right coil type (inductor)?!~~

~~What is Inductance? The 3 Effects of
Inductors - The 2 Minute Guru (s2e9)~~

*[Webinar] - Inductor Design for Power
Electronics Applications Using EMS*

~~Coupled Inductor Basics~~ The \"Power-
Inductor Checker\": A tester for power-
inductors

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Magic of Magnetism \u0026 Inductors
(ElectroBOOM101-007) Basics of
coupled inductors in power supplies How
to decrease inductor size in a 10A DC/DC
converter design How to Design a Coil for
Specific Inductance **Würth Elektronik
Webinar: How do I select the right
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1999 709 Design of Microfabricated
Inductors Luca Daniel, Student Member,
IEEE, Charles R. Sullivan, Member,

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IEEE, and Seth R. Sanders, Member,
IEEE Abstract—Possible configurations for
microfabricated inductors are considered.
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Abstract— Microfabricated inductor designs are proposed for converters for microprocessor power delivery. The fabrication process uses anisotropic silicon etching to form V-grooves; granular metal/insulator nanoscale

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silicon etching to form V-grooves;
granular metal/insulator nanoscale
composite magnetic materials; and cop-
per conductors.

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Abstract: Possible configurations for microfabricated inductors are considered. Inductance can be set by adjusting permeability through control of anisotropy of a permalloy core or via a patterned quasi-distributed gap. A design methodology based on a simple model is proposed. A more accurate model and a

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numerical optimization are also developed.

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microprocessor power delivery by G J

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Mehas, K D Coonley, C R Sullivan ,
Gustavo J Mehas , Kip D Coonley ,
Charles R Sullivan - in IEEE Applied
Power Electronics Conf. Proceedings ,
1999

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Abstract: Transformers and inductors fabricated with micron-scale magnetic-alloy and copper thin films are designed for high-frequency power conversion applications. Fine patterning produced by photolithography reduces eddy current losses, thus enabling very high power

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Inductance can be set by adjusting permeability through control of anisotropy of a permalloy core, or via a patterned quasi-distributed gap. A design methodology based on a simple model is proposed. Analysis of secondary effects is also developed. A design example for a 5 MHz buck power converter application is

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Power Electronics components will be used for high-efficiency integrated power converters in LED lighting systems. Image courtesy of Ph.D. candidate Dan Harburg, working under advisor Professor Victor Petrenko. Submitted as part of the ...

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We are developing high-frequency (8 MHz) power inductors fabricated by thin-film deposition and photolithography.

They are described in " Design of
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Microprocessor Power Delivery " and " Converter and Inductor Design for Fast-Response Microprocessor Power Delivery ", and in the first and second papers titled "Fabrication of Thin-Film V-Groove Inductors Using Composite Magnetic Materials."

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Design equations and closed-form
expressions for losses are presented.

Special design considerations for the key
dynamic voltage scaling enabler, called

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the dynamic DC-DC converter are given. The focus throughout is on low-power portable applications, where small size, low cost, and high energy efficiency are the primary design objectives.

Design of microfabricated transformers

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Nov 14, 2012 - Contact mask layout for microfabricated inductors with thin-film magnetic cores. These magnetic components will be used for high-efficiency integrated power converters in LED lighting systems. Image courtesy of Ph.D. candidate Dan Harburg, working

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