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Field Energy Inductors and Inductance Induction
Heater - 6\" Coil vs. 1/2\" bar

How to making inductor part 2(Ferrite \u0026 Iron
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#90: Measure Capacitors and Inductors with an
Oscilloscope and some basic parts

Inductive spiking, and how to fix it!~~How to choose the
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Effects of Inductors - The 2 Minute Guru (s2e9)~~

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IEEE TRANSACTIONS ON POWER ELECTRONICS, VOL. 14, NO. 4, JULY 1999 709 Design of Microfabricated Inductors Luca Daniel, Student Member, IEEE, Charles R. Sullivan, Member, IEEE, and Seth R. Sanders, Member, IEEE Abstract—Possible configurations for microfabricated inductors are considered. Inductance can be set by adjusting perme-

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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
composite magnetic materials; and copper
conductors.

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designs are proposed for converters for
microprocessor power delivery. The fabrication pro-
cess uses anisotropic 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 numerical optimization are also developed.

Design of microfabricated inductors - IEEE Journals & Magazine

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

CiteSeerX — Citation Query Design of Microfabricated Inductors

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 densities.

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Design Of Microfabricated Inductors Power Electronics 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

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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 presented.

Design of microfabricated inductors | Semantic Scholar

Nov 2, 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 under advisor Professor Victor Petrenko.

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Submitted as part of the ...

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converters ...

Transformers and inductors fabricated with
micronscale 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 densities. Calculated design
graphs and ...

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

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photolithography. They are described in " Design of Microfabricated Inductors for 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 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.

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Design of microfabricated transformers and inductors
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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 under advisor and Professor

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