



Planar Integrated Magnetics Design In Wide Input Range Dc

SJ Ball



Planar Integrated Magnetics Design In Wide Input Range Dc:

A High Transition Temperature Superconducting Integrated Circuit Mark Steven DiIorio,1985 Spacecraft Power Systems Mukund R. Patel,2004-11-29 The power systems of space vehicles have undergone significant development during the previous decade and will continue to do so in the immediate future Until now except for the scattered results of conferences and a few publications with sketchy coverage no single volume has covered the entire spectrum of the subject

Spacecraft Power Science Abstracts ,1995 Magnetics Design for High Current Low Voltage DC/DC Converter Hua Zhou,2007 With the increasing demand for small and cost efficient DC DC converters the power converters are expected to operate with high efficiency Magnetics components design is one of the biggest challenges in achieving the higher power density and higher efficiency due to the significant portion of magnetics components volume in the whole power system At the same time most of the experimental phenomena are related to the magnetics components So good magnetics components design is one of the key issues to implement low voltage high current DC DC converter Planar technology has many advantages It has low profile construction low leakage inductance and inter winding capacitance excellent repeatability of parasitic properties cost efficiency great reliability and excellent thermal characteristics On the other side however planar technology also has some disadvantages Although it improves thermal performance the planar format increases footprint area The fact that windings can be placed closer in planar technology to reduce leakage inductance also often has an unwanted effect of increasing parasitic capacitances In this dissertation the planar magnetics designs for high current low voltage applications are thoroughly investigated and one CAD design methodology based on FEA numerical analysis is proposed Because the frequency dependant parasitic parameters of magnetics components are included in the circuit model the whole circuit analysis is more accurate When it is implemented correctly integrated magnetics technique can produce a significant reduction in the magnetic core content number and it can also result in cost efficient designs with less weight and smaller volume These will increase the whole converter s power density and power efficiency For high output current and low output voltage applications half bridge in primary and current doublers in secondary are proved to be a very good solution Based on this topology four different integrated magnetics structures are analyzed and compared with each other One unified model is introduced and implemented in the circuit analysis A new integrated magnetics component core shape is proposed All simulation and experimental results verify the integrated magnetics design There are several new magnetics components applications shown in the dissertation Active transient voltage compensator is a good solution to the challenging high slew rate load current transient requirement of VRM The transformer works as an extra voltage source During the transient periods the transformer injects or absorbs the extra transient to or from the circuit A peak current mode controlled integrated magnetics structure is proposed in the dissertation Two transformers and two inductors are integrated in one core It can force the two input capacitors of half bridge topology to have the same voltage potential and solve the voltage

unbalance issue The proposed integrated magnetics structure is simple compared with other methods implementing the current mode control to half bridge topology Circuit analysis simulation and experimental results verify the feasibility of these applications

Index to IEEE Publications Institute of Electrical and Electronics Engineers,1996 **Digests of Interomag** ,1998 **Electronic Design** ,1994 *International Aerospace Abstracts* ,1997 **NASA Tech Brief** ,1970 **Physics Briefs** ,1989 **Cumulative Index to NASA Tech Briefs** United States. National Aeronautics and Space Administration,1970 **Modern Ferrites, Volume 2** Vincent G. Harris,2022-11-14 MODERN FERRITES Volume 2 A robust exploration of the basic principles of ferrimagnetic and their applications In Modern Ferrites Volume 2 renowned researcher and educator Vincent G Harris delivers a comprehensive overview of ferrimagnetic phenomena and discussions of select applications of modern ferrite materials in emerging technologies and applications Volume 2 explores fundamental properties of ferrite systems including their structure chemistry and magnetism as well as practical applications such as permanent magnets inductors inverters and filters and their use in emerging applications as metamaterials multiferroics and biomedical technologies In addition to the properties of ferrites the included resources explore the processing structure and property relationships in ferrites as nanoparticles thin and thick films compacts and crystals The authors discuss how these relationships are key to realizing practical device applications laying the foundation for next generation communications radar sensing and biomedical technologies This volume includes A comprehensive review of ferrite discoveries and impacts upon ancient cultures their scientific evolution and societal benefits Discussion of the origins of magnetism in ferrimagnetic oxides including superexchange theory GKA rules and recent developments in density functional theory In depth examination of ferrite power conversion and conditioning components and their processing as low temperature co fired ceramics Ferrite based electromagnetic interference suppression and electromagnetic absorption Nonlinear microwave devices multiferroic and emerging magnetoelectric devices Biomedical applications of ferrite nanoparticles Perfect for RF engineers and magneticians working in the fields of RF electronics radar communications and spintronics as well as other emerging technologies Modern Ferrites will earn a place on the bookshelves of engineers and scientists interested in the ever expanding technologies reliant upon ferrite materials and new processing methodologies Modern Ferrites Volume 1 Basic Principles Processing and Properties is also available ISBN 9781118971468 Scientific and Technical Aerospace Reports ,1989 Servomechanisms: Bulletin of Automatic and Manual Control Abstracts ,1966 *EDN.* ,1965 **Electrical & Electronics Abstracts** ,1997 Solid State Journal ,1964 *Index to NASA Tech Briefs* United States. National Aeronautics and Space Administration Technology Utilization Division,1974 **IEEE Transactions on Electronic Computers** ,1966 **Thomas Register of American Manufacturers** ,2003 Vols for 1970 71 includes manufacturers catalogs

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