

## Dual Winding High Power Density Shielded Drum Core Power

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### Dual Winding High Power Density

Dual winding, high power density, shielded drum core power inductors. Pb. HALOGENHF. FREE • Desktop and servers • DVD and media players • Portable and handheld devices • LCD panels • As a transformer: SEPIC, flyback • As an inductor: buck, boost, coupled inductor • DC-DC Converters • VRM inductor for CPU and DDR power supplies • Input and output filter chokes. Environmental data

### Dual winding, high power density, shielded drum core power ...

Dual winding, high power density shielded drum core power inductors. Inductance characteristics. 100kHz 200kHz 300kHz 500kHz 1M. 0.01 0.1 1 10 100 1000 10,000. Bp-p (Gauss) Co re Los s (W) 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% 110% 120% 0% 10% 20% 30%4 0% 50% 60% 70%8 0% 90%1 00%1 10%1 20%1 30% 140% % of Isat1 % of OCL-40°C +25°C +85°C +125°C % of OCL vs. % of Isat1

### DRAQ127 Inductor data sheet

jiang et al: design and optimization of dual-winding fault-tolerant permanent magnet motor 47 external arc of rotor magnetic steel respectively. h is the centrifugal height which is defined as the distance between the

### Design and Optimization of Dual-Winding Fault-Tolerant ...

Dual winding, high power density, shielded drum core power inductors Search Partnumber : Start with "DRQ73- R33-R " - Total : 46 ( 1/3 Page) Cooper Bussmann, Inc.

### DRQ73-R33-R Datasheet, PDF - Alldatasheet

However, the large conversion ratio from 48 V to processor core voltages (about 1-1.8 V) poses significant challenges in the design of voltage regulator modules (VRM) pressing for high efficiency and high power density for installations in the vicinity of CPUs [5], [6], [7].

### A 95%-Efficient 48 V-to-1 V/10 A VRM Hybrid Converter

This paper describes the design process of a 10 kW 19000 rpm high power density surface mounted permanent magnet synchronous machine for a directly coupled pump application.

### (PDF) Design of Fault-Tolerant Dual Three-Phase Winding ...

A High Power Density Drivetrain-Integrated Electric Vehicle Charger ... plus an H-bridge and a single winding to the composite boost converter, to achieve high-power on-board charging functionality ... dual active bridge (DAB) converter and the drivetrain buck converter. The bridgeless boost converter at the front end is

### A High Power Density Drivetrain-Integrated Electric ...

DRA Series High Power Density, High Efficiency, Shielded Inductors Magnetics Solutions For Automotive Applications. (1) Open Circuit Inductance test parameters: 100kHz, 0.25V, 0.0Adc, tolerance is ±20% (2) Irms: DC current for an approximate ΔT of 40°C without core loss. Derating is necessary for AC currents.

### DRA Series Magnetics Solutions High Power Density, For ...

Motor performance: 7 horsepower @ 8400 rpm 1.4 pounds 95% efficient at 7 hp, 8400 rpm 5 hp/lb 6" diameter. This performance is unrivaled. No other motor has 5 hp/lb at 8400 rpm while maintaining 95% efficiency. Cross section of motor with ducted fan blades:

### High Efficiency,High Power DensityElectric Motors

windings on alternate teeth, which incorporates the merits of high power density and high efficiency of permanent magnet (PM) motor and high fault-tolerance of dual-winding motor.

### Electric Drive System of Dual-Winding Fault-Tolerant ...

The motor is a coreless axial flux design, and utilizes optimized Halbach magnet arrays combined with a patented winding fabrication process to achieve superior performance. The Phase I effort and related follow-on work resulted in a laboratory prototype with a power output of 5 HP/lb at 8400 RPM, twice the power density of the best known ...

### A Dual Halbach Array, High Power Density Electric Motor ...

In [4], the electromagnetic performance of a two-phase machine with 8 slots and 10 poles and a three-phase machine with 12 slots and 10 poles are compared at 6000 rpm, which shows that the two-phase machine has higher torque density with higher torque ripple than the three-phase machine.

### Dual-stator Two-phase Permanent M agnet Machines with ...

Many high-power systems (>1 kW) use the dual-bridge topology (Fig. 3). We have seen density improvements in the last decade with the introduction of silicon-carbide (SiC) diodes and the latest...

### Rethink Power Density with GaN | Electronic Design

DUAL PRIMARY DUAL SECONDARY TRANSFORMERS. Power Rating: 0.5 – 25 VA. We offer a space saving transformer line, for less board space, as well as a height saving transformer line, for low clearance. The Dual Primary, Dual Secondary transformers come with 2 x 115 V, 50-60 Hz primary windings that can be wired in series or in parallel.

### Dual Primary Dual Secondary Transformers

The proposed DFPM motor consists of optimal surface-mounted permanent-magnet (PM) rotor and 12-slot stator with two sets of independent three-phase concentrated armature windings on alternate teeth, which incorporates the merits of high power density and high efficiency of the PM motor and high fault tolerance of the dual-winding motor.

### Electric Drive System of Dual-Winding Fault-Tolerant ...

The analysis of the designed dual stator PMBLDC motor has been done. In dual stator machine, the total output torque corresponds to the algebraic sum of two independent torques. Keywords: Dual stator motor, Permanent magnet BLDC (PMBLDC) motor, inner stator and outer stator.

### Analysis of Dual Stator PM Brushless DC Motor

3664 IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, VOL.50,NO.6,NOVEMBER/DECEMBER 2014 High-Power-Factor Vernier Permanent-Magnet Machines Dawei Li, Student Member, IEEE, Ronghai Qu, Senior Member, IEEE,and Thomas A. Lipo, Life Fellow, IEEE Abstract—Vernier permanent-magnet (VPM) machines are well known for high torque density but low power factor.

### High-Power-Factor Vernier Permanent-Magnet Machines

Abstract—This paper proposes a dual-rotor, toroidal-winding, axial-flux vernier permanent magnet (VPM) machine. By the ... type VPM machine which has a high torque density as well as high power factor. In [16] a five-disk axial-flux-modulated ... Analysis and Design of a Dual-Rotor Axial-Flux Vernier Permanent Magnet Machine W

### Analysis and Design of a Dual-Rotor Axial-Flux Vernier ...

development is the new high voltage package concept named "next High Power Density Dual (n HPD 2)". The package offers not only a drastic reduction in the internal inductance by 75% from conventional modules, but also an increase in the power density compared with the latest F-version series modules. Hitachi formerly presented the latest ...

### High voltage module with low internal inductance for next ...

Stator winding inter turn short-circuit fault is one of the most common internal faults of fault-tolerant machine, which can disconnect the fault phases and keep operating correctly in the event of a failure. Stator winding short-circuit fault model is established through analysis. Based on finite element method, the high-power density fault-tolerant machine internal magnetic field simulation ...

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