Dual Winding High Power Density Shielded Drum Core Power

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Dual Winding High Power Density

DRAQ75. Automotive grade dual winding, high power density, shielded drum core power inductors. Product features. • AEC-Q200 qualified. • Dual winding inductors that can be used as a single inductor, SEPIC, Flyback, or other coupled inductor/transformer applications (1:1 turns ratio) • Windings can be connected in series or parallel, offering a wide range of inductance and current ratings.

Automotive grade dual winding, high power density ...

Dual winding, high power density, shielded drum core power inductors. wwweatncmelectrnics. Product specifications. 1. Open Circuit Inductance Test Parameters: 100 kHz, 0.25 V. rms, 0.0 Adc Parallel: (1,2 -4,3) Series: (1-4) tie (2-3) 2. RMS current for an approximate DT of 40 °C without core loss.

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

High power density. Usable power might be questioned at this stage. nHPD2 is afterall smaller than the mid-sized IHM footprint at a compact 94mm x. 140mm. However, this is not at the expense of a reduction in usable power. nHPD2 is a high power density dual.

High Power Density Dual nHPD2 Packaging Generation ...

Dual winding, high power density, shielded drum core power inductors: Cooper Bussmann, Inc. DRQ74-100-R: Dual Winding, Shielded Inductors/Transformer: Eaton All Rights Reserv... DRQ74-101-R: Dual winding, high power density, shielded drum core power inductors: Cooper Bussmann, Inc. DRQ74-101-R: Dual Winding, Shielded Inductors/Transformer

DRQ74-150-R Datasheet, PDF - Alldatasheet

High Power Density 48–12 V DCX With 3 D PCB Winding Transformer 3IEEE PROJECTS 2020-2021 TITLE LIST MTech,

BTech, B.Sc, M.Sc, BCA, MCA, M.Phil WhatsApp : +91-7806844441 From Our Title List the ...

High Power Density 48–12 V DCX With 3 D PCB Winding Transformer

Index Terms—Dual-winding motor, design and optimization, fault-tolerance, finite element analysis, short-circuit fault. I. INTRODUCTION ERMANENT magnet (PM) motor has been widely used in hybrid electric vehicles, aerospace and other fields because of the merits such as high power density, high torque density,

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

Abstract: In this paper, a new electric drive system based on a six-phase ten-pole dual-winding fault-tolerant permanent-magnet (DFPM) motor for aerospace applications is proposed

and investigated. 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 ...

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 ...

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

(PDF) Electric Drive System of Dual-Winding Fault-Tolerant ...

and secondary sides of the high frequency transformer. However, for many relatively low power applications in which Fig. 1: Topology of the dual active bridge (DAB) converter. if the input and output voltages are high, an external inductor to provide larger interfacing inductance is needed in order to adjust the output power as well as to ...

High Frequency AC Inductor Analysis and Design for Dual ...

Abstract: In order to adapt to the single power supply system of an aircraft, this paper proposes and investigates a novel dual-

winding fault-tolerant (DF) motor drive system based on the redundancy bridge arm for aerospace applications. The proposed DF motor offers the advantages of magnetic isolation, physics isolation, thermal isolation and small cogging torque ripple, inhibiting the short ...

A Dual-Winding Fault-Tolerant Motor Drive System Based on ...

The laminated metal slots were impregnated with a high-temperature (260 °C) two-part epoxy with no fillers and a thermal conductivity of 1.3 W/m·K using vacuum pressure impregnation (VPI). After epoxy impregnation, the laminated metal slots were fixed into the plastic housing using oom-temperaturer -vulcanizing (RTV) silicone. RTV

Thermal Analysis of Potted Litz Wire for High-Power ...

In the present work, a 12-V/48-V dual-voltage subsystem using

three-port DC/DC converter cells is proposed, and the high power density cell design is studied to achieve ultra-compact subsystem in hybridelectric- -vehicle. A 500 W, 400 kHz prototype is developed with Ga N FETs , and its efficiencies are evaluated.

28 W/cm3 High Power Density Three-port DC/DC Converter ...

power density (power-to-volume ratio) of the DC-DC converter. Several methods, for example, magnetic transformer tapping [1] and implementation with two transformers [2][3], can be used to realize no deadtime topologies. Figure 2 shows their typical waveforms of input current iin and the voltage Vp across the primary winding of the transformer.

Dual-Bridge DC-DC Converter: A New Topology of No Deadtime ...

- Integration of end-winding cooling and in-slot winding cooling for high power density electric machines, principal investigator, funded by the Grainger Center for Electric Machinery and Electromechanics, 2019 to 2020.

Julia Zhang | Electrical and Computer Engineering

generator has many advantages, such as low noise, high efficiency, and high power density. In a split- wound machine, the stator winding consists of two similar but separate three-phase windings wound

Double Stator Winding Induction Generator for Wind and ...

High Power Density, High Efficiency, Shielded Inductors Magnetics Solutions For Automotive Applications RoHS 2002/95/EC (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 ...

With optimally-sized small capacitors and inductors, the DIHC would result in high power density power conversion, and promises high potential for high-power and high current applications. This new converter topology is verified by a 20 W, 48 V VRM prototype. The printed circuit board implementation with key components is shown in figure 3.

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

5.5HP 48V High Power Brushless DC Motors, be designed to operate in a voltage range from 24V to 380V DC, its outer diameter is 180mm.The Series BLDC154 motors cover a output power range from 1.5KWto 10KW, its torque range on continuous

duty is 3-20Nm,on intermittent duty up to 7.5-50Nm.It can keeps at a high efficiency at wide speed range.

5.5HP 48V High Power Brushless DC Motors from China BLDC ...

XD4-130 4-radio 3x3 802.11ac wave 1 High Density AP Includes: 4 3x3 radios with directional antennas and 5GHz/2.4GHz operation Integrated wireless controller 2 10/100/1000 Ethernet Uplinks ArrayOS operating system including automatic RF tuning (channel, cell size), wireless IDS/IPS, stateful firewall, multicast video optimization, WDS point-to-point, RADIUS server, captive portal, and much ...