
Therefore, this paper presents an experimental investigation of the iron loss characteristics of an amorphous ring core under the silicon carbide (SiC) inverter excitation at high carrier...

The inverters with W / L = 5 exhibit a superior voltage gain as high as 1190, and simultaneously an uncertainty level of only 80 mV, which are, to the best of the authors" knowledge, ...

Stator core losses of HSAAPMSM under high-frequency and variable temperature conditions are accurately calculated.

Despite significant improvements in the preparation process and soft magnetic properties of amorphous SMCs, their magnetic permeability is relatively low, and high-frequency loss remains ...

Implementing amorphous cores in inverter applications offers numerous advantages, including improved efficiency, enhanced high-frequency performance, and reduced core losses.

Amorphous magnetic cores allow smaller, lighter and more energy efficient designs in many high frequency applications for Invertors, UPS, ASD (Adjustable speed drives), and Power supplies (SMPS).

These benefits make amorphous cores an excellent choice for high-frequency applications such as inverters, adjustable speed drives, and both switched-mode and uninterruptible power supplies ...

While Amorphous cores remain vital in large-power filtering and lower-frequency applications due to their high saturation flux density and cost advantages, Nanocrystalline cores are ...

These cores are manufactured with cobalt-based Metglas® amorphous alloy 2714A for high frequency applications. These flat loop toroidal cores offer a unique combination of ultra-high permeability, high ...

These benefits make amorphous cores an excellent choice for high-frequency applications such as inverters, adjustable speed drives, and both switched-mode and uninterruptible power supplies (SMPS and UPS).

These cores are manufactured with cobalt-based Metglas® amorphous alloy 2714A for high frequency applications. These flat loop toroidal cores offer a unique combination of ultra-high permeability, high saturation flux density and extremely ...

In recent years, amorphous materials have been used for inductor and transformer cores to improve the efficiency of high power-density converters utilizing wide

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