

Tabtronics Inc.

New Product Announcement

Tabtronics introduces Innovative Magnetic Devices at Applied Power Electronics Conference 2005

Austin, TX Mar. 07, 2005 -- Tabtronics Inc. today introduces a new line of groundbreaking magnetic components based on the company's Hyper-X Magnetic Technology(tm). The announcement is being made at the Applied Power Electronics Conference & Exhibition (APEC2005).

These innovative components promise to dramatically improve the performance of switch-mode power supplies used in commercial, industrial, telecommunications and military applications.

HXLB40002 Hyper-XMT(tm) BOOST INDUCTOR



The HXLB40002 Boost Inductor provides 800 watts of high-efficiency power in a standard PQ35 package. Hyper-X Magnetic Technology (tm) greatly reduces AC losses (-70%) without the DC power robbing penalty of Litz wire at low line input. Designed for 100kHz switching frequency, this unprecedented inductor exhibits dissipation of less than 1% of output regardless of duty cycle.

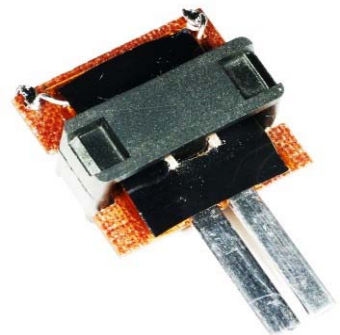
The inductance of this device is 300uH at zero bias, and 275uH minimum at 6.7ADC. With an energy capacity of 6,500uJ and a volt-time rating of 1,000VuS min, this device sets new standards for cost effective high performance.

[Click here to view the HXLB40002 Data Sheet...](#)

HXTF00140 Hyper-XMT(tm) FORWARD CONVERTER TRANSFORMER

At less than 0.25 inches high, the HXTF00140 Forward Converter Transformer delivers an amazing 1.3V at 40A with DC inputs from 36 to 72 volts.

Designed for forward converters with 500kHz switching frequencies in telecommunications applications, this device exhibits very low leakage inductance (0.6uH max @ 500kHz) and very low interwinding capacitance (40pF max) despite a high (13:1) turns ratio. With densities of 682W/cubic inch and 525A/cubic inch, this transformer provides a cost effective solution for challenging low voltage, high current applications.



[Please click for the latest HXTF00140 Data Sheet...](#)

HXTR18002 Hyper-XMT(tm) RESONANT TRANSFORMER



Designed for power supplies using High Performance Resonant Mode Controllers, the HXTR18002 Resonant Transformer delivers very high efficiencies at high frequencies without the use of costly Litz wire.

The Litz wire free design also reduces leakage inductance and improves heat transfer. The device features a 22:25 turns ratio, and operates from 75kHz to 500kHz with a typical primary effective ACR less than 0.25 Ohms at 500kHz.

[Download the HXTR18002 Resonant Xfmr Data Sheet...](#)

HXLR18002 Hyper-XMT(tm) RESONANT INDUCTOR

Also designed for power supplies using High Performance Resonant Mode Controllers, the Litz wire free HXLR18002 Resonant Inductor delivers very high efficiencies at high frequencies.

With an inductance of 150uH and a minimum energy capacity of 400uJ at 75kHz, this device provides Q's in excess of 400 from 150kHz to 400kHz.

[Click here for the HXLR18002 Data Sheet...](#)

All of these application specific, customizable devices can be configured to meet a variety of commercial, military, or aerospace applications. Design engineers should contact Tabtronics Inc. for application specific installation recommendations.

These products are RoHS compliant and lead (Pb) free. Tabtronics is ISO9001:2000 certified.

[Click here to e-mail a Tabtronics application engineer...](#)

About Tabtronics Inc.

Tabtronics specializes in creating and commercializing advanced technology for electromagnetic components. The company's technology is relied upon by high technology, military, avionics, and industrial customers.

Tabtronics has 25 years experience in direct manufacture of electromagnetic components, and also licenses its technology to other manufacturers and system integrators. The firm's continuing focus is the development of innovative methods to provide more power through smaller components.

Tabtronics Inc., *thinking big. designing small. magnetics to the highest power (TM).*

