Toroidal Power Transformers Offer Efficient Electronics Design Solution

Featuring up to 97.4 percent power efficiency and a highly efficient design using nearly 30 percent less material, the VPT Series Toroidal Power Transformers from Triad Magnetics provide an innovative green power electronics solution that is also smaller and lighter than traditional transformers.

Compared to conventional EI transformers, toroidal construction inherently helps reduce stray fields, increases efficiency and minimizes size. Triad's new transformers are constructed with a Class B, UL approved insulation system rated for 130°C that provides 4000V primary to secondary isolation.

The highly efficient VPT Series is suitable for a wide range of applications in commercial and industrial equipment. The transformers operate over a broad power range from 25 VA to 2.5 KVA, depending on the specific model selected. With dual primary and secondary windings, it allows for maximum flexibility of input and output voltages. The VPT Series features an input voltage of 115/230 VAC, 50/60 Hz, and output voltage from 6.0V through 230V. Voltage regulation is up to 2.5 percent from full load to no load.

VPT Series transformers are designed and manufactured under Triad’s ISO9001 quality assurance program. Thorough testing procedures assure that Triad products meet the most stringent global safety and environmental standards including UL, CE, RoHS and REACH. Agency files are available upon request.

The VPT Series features a rugged, RoHS compliant toroidal construction in a package ranging in size from 71 to 208 mm diameter, a height range of 32 to 112 mm and weight range of 0.4 to 19.4 kg, depending on the specific model selected. The highest quality materials ensure superior performance and a long life.

VPT Series transformers are simple to install out of the box, with mounting hardware included. Connections are 8 inch (200 mm) stranded UL 1015 lead wire with 0.25 inch (6 mm) stripped/tinned ends.

Depending on the model selected and the quantity ordered, the VPT Series Transformers are priced starting at $12.00 each in quantities of 100 units with delivery from stock to 8 weeks lead time. They are available off-the-shelf from Triad's extensive distributor network.

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