

# Payton Planar Magnetics Introduces a Line of Low Profile Resonant Inductors

High Performance and Low Cost

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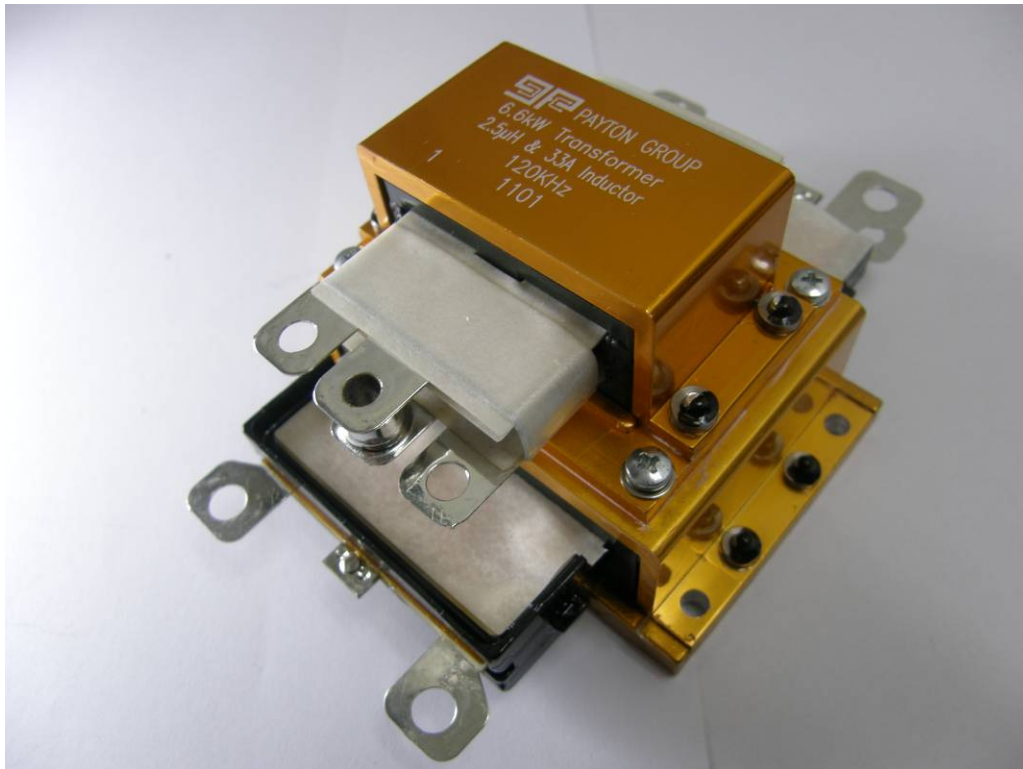
The demand for high efficiency low EMI designs, such as resonant topologies, is driving the need for high performance resonant planar inductors to be used in power converters in series with the main transformer.

## Technical Data:

In order for the designer to design a high efficiency high power converter with great EMI performance, a resonant topology must be used. Payton designs Planar transformers with the lowest possible leakage inductance in order to achieve the highest efficiency. Most resonant topologies do need a small amount of inductance to work properly, so Payton introduced a series of low profile, high efficiency, resonant inductors. The inductor can be positioned on top of the transformer in order to maximize use of the available area. The inductance can vary from 1 to 10 $\mu$ H and the current from few amps to 100 amps. The inductance typically varies +/- 15% from -40°C to 130°C, which provides a very stable resonant point. The dimensions of the 2.5 $\mu$ H/33Amp design pictured below are 70mm(L)x65mm(W)x30mm(H). The power dissipation is less than 15 Watts and the temperature rise is less than 50°C. The transformer pictured below the inductor is a 6.6kWatt design used in a battery charger.

## About Payton Planar Magnetics

Payton America Inc., a Deerfield Beach, Florida company, designs, manufactures and markets Planetics®, a custom line of planar transformers and inductors to Original Equipment Manufacturers and their suppliers of power electronics. Payton's headquarters is in Israel, with manufacturing in Israel, Florida and China. For more information, please visit Payton's web site at [www.paytongroup.com](http://www.paytongroup.com).



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