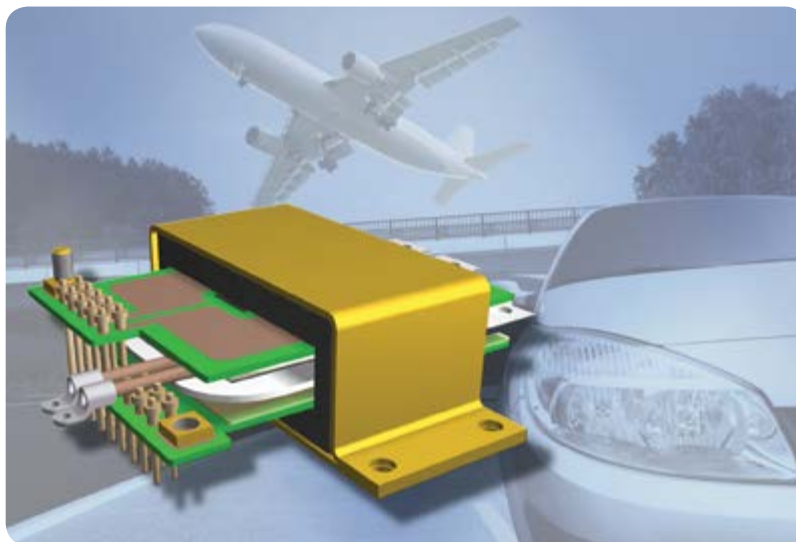


INDUCTORS AND TRANSFORMERS

Power Planar Transformer

Power Planar Transformer Medium Power up to 5 kW



KEY BENEFITS

- Medium power up to 5 kW
- Low-profile design
- Low leakage inductance, up to 7 μH
- Excellent thermal characteristics

APPLICATIONS

- Electrical vehicles
- Avionics
- Welding
- Control systems
- Motive power

RESOURCES

- For technical questions contact sfer@vishay.com

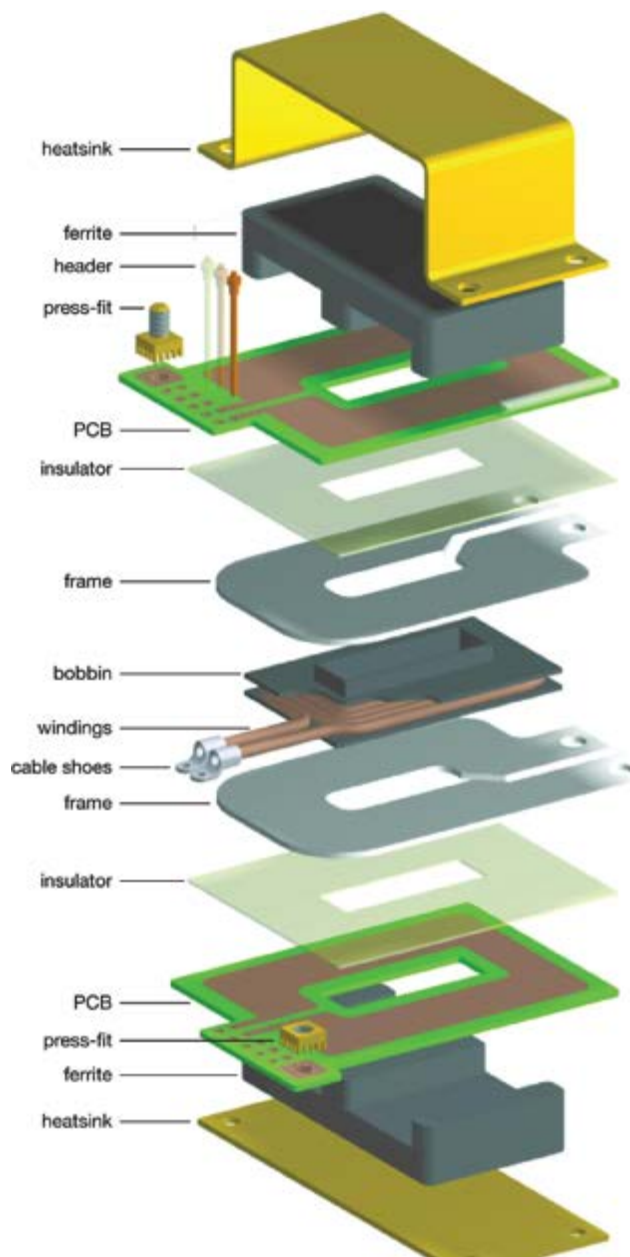
Transformers - Medium Power up to 5 kW



INDUCTORS AND TRANSFORMERS

Power Planar Transformer

Power Planar Transformer Medium Power up to 5 kW



ELECTRICAL DATA

Transformers and inductors designed and manufactured for all types switchmode power supplies, with the following characteristics.

Power rating:	Up to 5 kW
Input voltage:	12 V _{DC} to 500 V _{DC}
Output voltage:	3 V _{DC} to 400 V _{DC}
Frequency range:	50 kHz to 300 kHz
Typical efficiency:	98 % to 99.6 %
Temperature range:	- 50 °C to + 125 °C
Dielectric strength:	Up to 4000 V _{RMS}

SMPS TOPOLOGIES

- Full bridge
- Half bridge
- Push-pull
- Forward
- Fly back
- Boost
- Buck

CONSTRUCTION

Electrical circuit:	Flat copper foil or windings
Multilayer:	Up to 24 layers
Multi PCB:	Up to 5 boards
Insulation:	Polyimide or equivalent
Planar core:	Ferrites
Cooling:	Heatsink or thermal pad

MOUNTING AND CONNECTIONS

- Press fit
- Header
- Through-hole
- SMD
- Cable shoes - Ring tongue

Transformers - Medium Power up to 5 kW