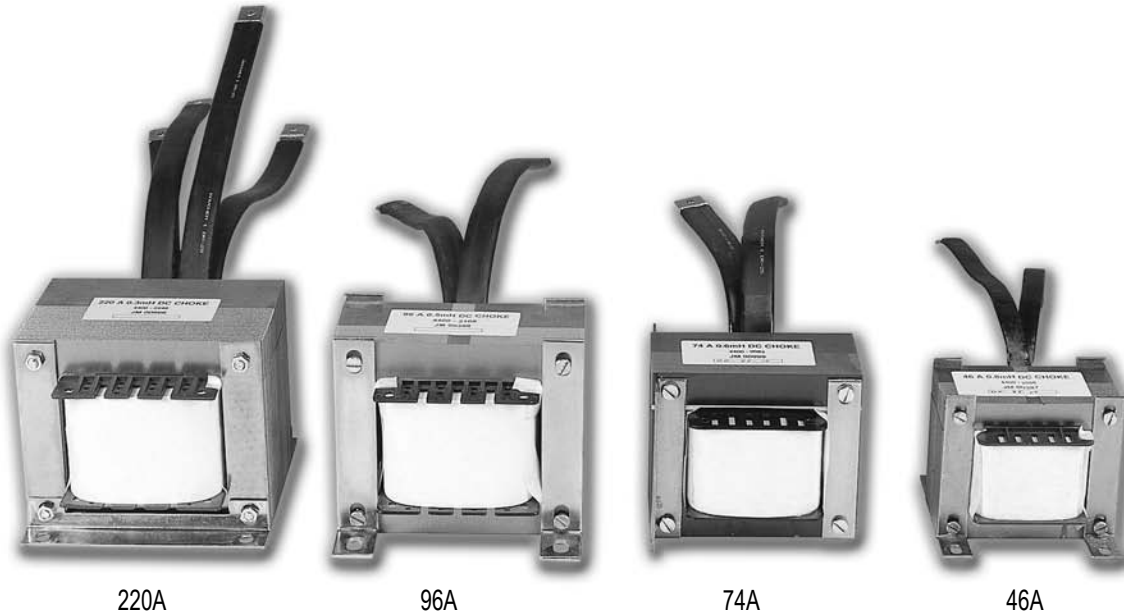


# Custom Power Magnetics

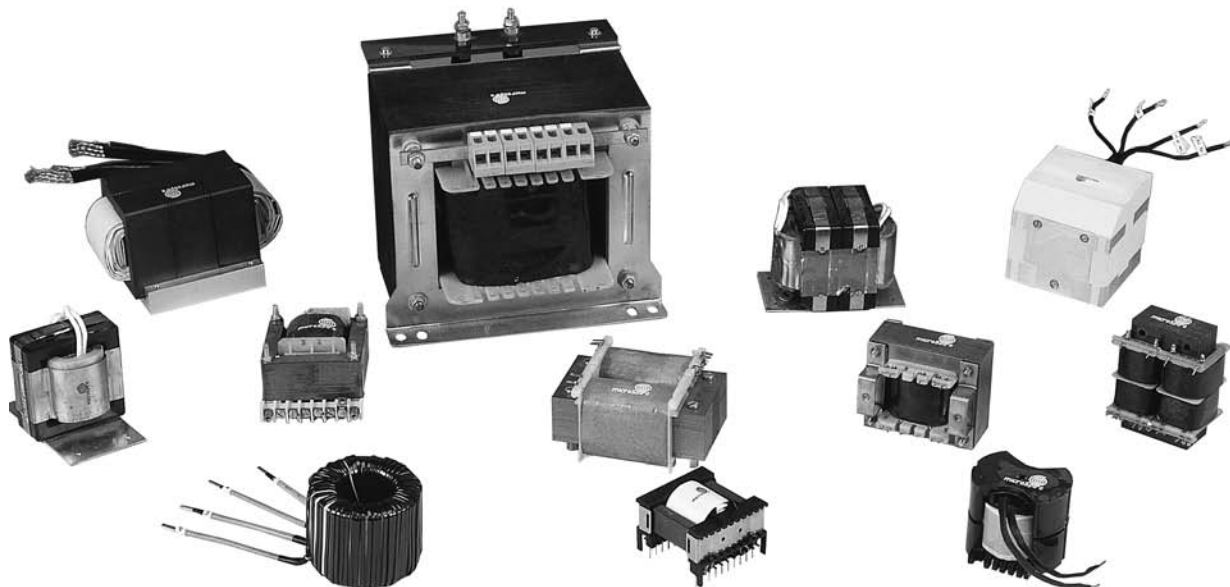
Microspire Engineers design compact yet powerful magnetics for a wide range of applications :

- All designs up to 10kVA
- All designs up to 1kHz
- All designs up to 500A peak



Microspire manufacture custom power magnetics using all materials and technologies available :

- Copper wire, flat, foil
- EI, EE, UI and C-cores



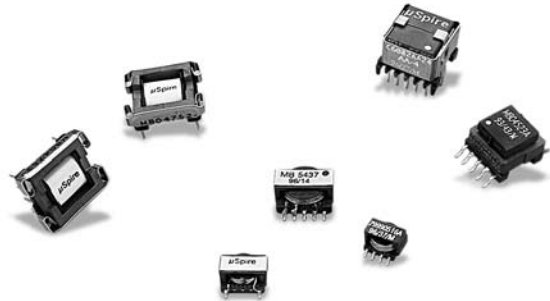
# Custom Power Magnetics

## EFD, ER and EP series

EFD cores with their optimised cross-sections are used to design compact transformers for DC-DC converters, isolation and pulse applications.

ER cores are low profile, SMT and high inductance components well suited for broadband applications and for power transformers up to 500kHz.

EP coils are utilised for the design of pulse and line matching transformers and are increasingly being used for power applications up to 300kHz such as in forward converters.

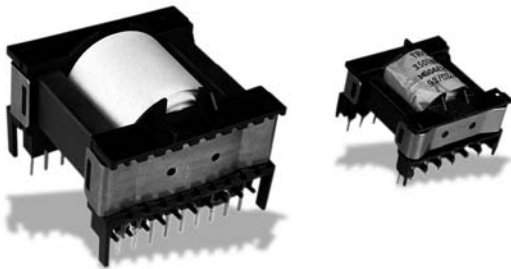


## ETD Coils and Transformers

E cores have the advantage of easy winding, compactness and wide openings on each side.

ETD cores have the additional benefit of an almost constant cross-section along the magnetic path.

ETD coils are suitable for designing transformers in forward and push-pull SMP supplies and converters. Power ratings of more than a 1000W can be transformed at frequencies up to 500kHz.



## RM series

RM coils are compact and well suited for PCB mounting. They are used in broadband transmission of signals, as filters in resonant circuits and as power transformers in SMP supplies.

Low profile RM coils are suitable for small-signal, interface and matching transformers as well as for transformer and energy storage inductors in DC-DC converters. The RM 14 core will handle a maximum power of 200 W at 100 kHz switching frequency.



## Planar Magnetics

- Power up to 10kWatts
- Input voltage 12 Vac to 240-400 Vac
- Output voltage 3Vdc to 60Vdc
- Frequency range 50kHz to 1MHz
- Typical isolation 3kV
- Electrical circuit Copper foil or PCB
- Multi-layer up to 10layers
- Core EE or E/PLT14 to EE or E/PLT64 ferrite
- Temperature range : -40°C to +125°C

