

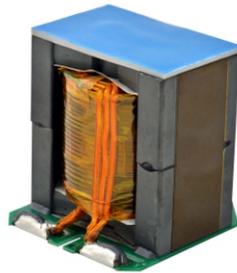
# PCB Mounted Power Magnetics



When Falco was first established our focus was to develop and manufacture PCB mounted magnetics which included high frequency transformers, gate-drive transformers, common mode chokes, and power factor correction chokes primarily for switched mode power supplies used in variety of applications for different industries. We have a wide selection of cores and bobbins readily available for high frequency transformers and when necessary we will design a bobbin and core for a specific customer application. Not very mechanically different from high frequency transformers are the Gate-Drive transformers and Power Factor Correction (PFC) Chokes which can be designed in a toroid or core and bobbin combination. We design these magnetic components per UL60950, IEC 60950, and other related standards as requested by our customers.

## APPLICATION

PCB mounted power magnetics are used in many applications such as industrial controls, renewable energy, instrumentation, power distribution. More specifically: AC to DC Power Supplies and DC to AC Inverters.



## Features

### Switched Mode Transformer

- ⊞ Topologies: Flyback, Forward converter, Push-Pull, Full Bridge, Half Bridge, LLC resonant, SEPIC, Isolated Buck.
- ⊞ Operating frequencies from 20 kHz to 1.0MHz
- ⊞ Power ratings from 0.5 W to 5 KW Plus

### Common Mode Chokes

- ⊞ Designed with a variety of core geometries such as UU, UT, EE, and toroid
- ⊞ Frequency range from 1 kHz to 500 kHz
- ⊞ Current handling capability 0.065 – 140 Amps

### Power Factor Correction

- ⊞ Designed using similar core and bobbins as is used with transformers
- ⊞ Rated current up to 25Amps

### Gate Drive Transformers

- ⊞ Typically 3750 VRMS isolation between windings
- ⊞ Designed using toroids or EE cores