

VAC FLYBACK TRANSFORMERS

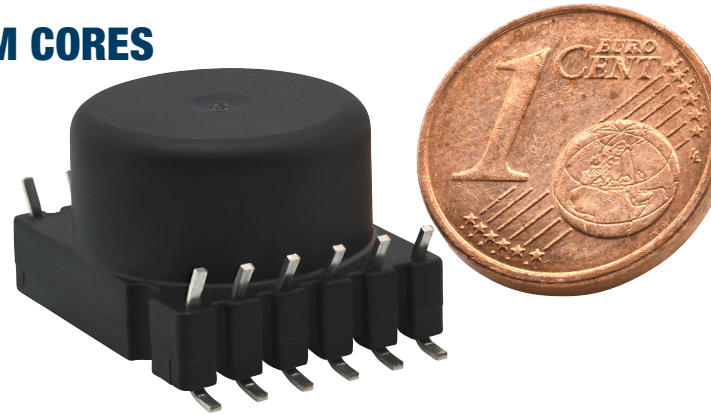
WITH NANOCRYSTALLINE VITROPERM CORES

VAC Flyback transformers are the ideal solution for modern switched-mode power supplies and high-voltage applications for industrial drives where efficiency, safety, and miniaturization are crucial. Flyback transformers store energy in their core and transfer it to the secondary side.

In addition to reliable galvanic isolation, VAC Flyback transformers fulfill the highest high-voltage requirements thanks to innovative toroidal core technology made of VITROPERM®.

The flyback transformers provide superior magnetic properties as known from all VITROPERM alloy:

- New material class with permeability range of ~100 to 5,000
→ small μ with very high saturation induction
- Saturation flux density (B_s) 1,2 T instead of 0,3 T
→ allows very compact designs
- The use of a VITROPERM core, multiple insulated wires, and vacuum potting enables a safe and reliable design for your application, offering outstanding high-voltage performance and excellent partial discharge characteristics. Up to 3.1 kV test voltage have been realized in very space-saving designs!

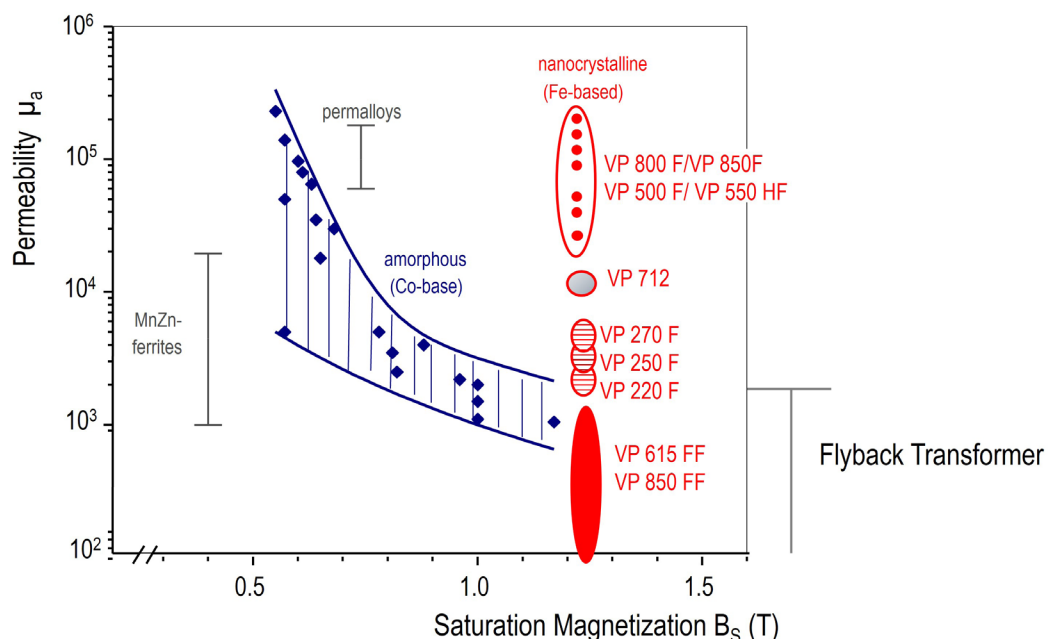


TYPICAL PARAMETERS:

- Power level up to ~ 20 W
- Insulation voltage up to ~ 1 kV
- Main inductance L from 5 - 600 μ H
- DC_{peak} up to ~ 5 A
- Designs: SMT, PTH
- T_{op} - 40 °C - +100 °C

ADVANTAGES:

- Smaller and lighter, compared to ferrites up to three orders of magnitude smaller
- Wide frequency range
- Higher insulation rating
- Lower losses



ADVANCED MAGNETIC SOLUTIONS

VAC
VACUUMSCHMELZE

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Published by VACUUMSCHMELZE GmbH & Co. KG, Hanau, May 2026
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