



CORE OPTIMIZER™



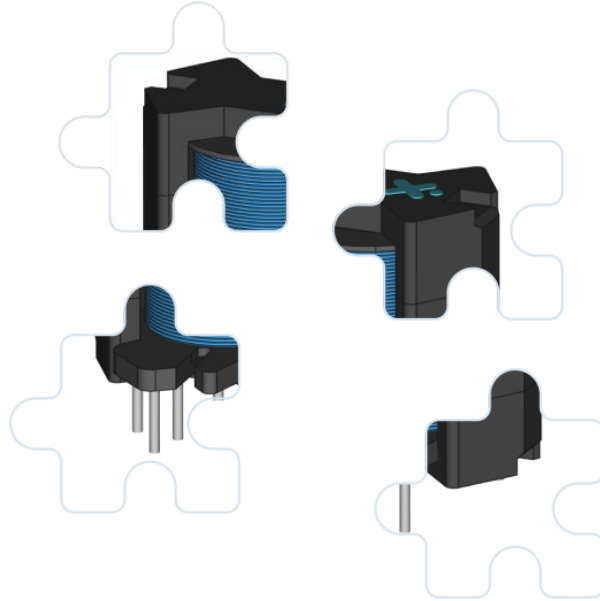
Selecting the Optimal Core is complex

Multiple Software

Several software are needed to calculate inductances and losses for standards and custom cores

Reporting

Manual calculations are hard to track. The Scientific Method cannot be applied



Time consuming

This is a serial process, with a single calculation per iteration

Accuracy

Using Manual Calculations, the accuracy is penalized, and trial and error becomes the rule

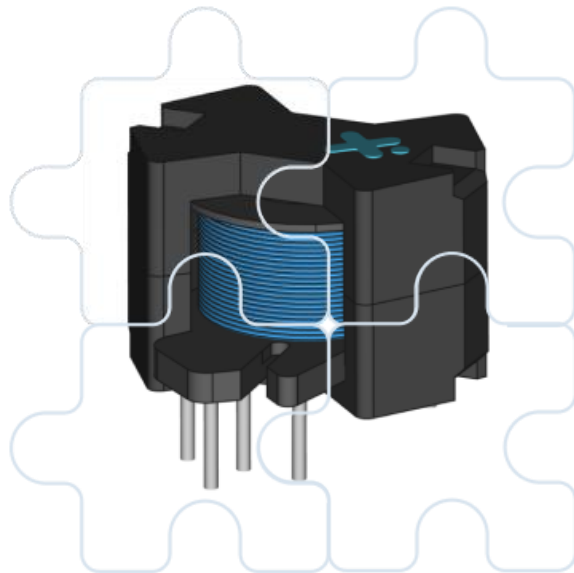
Our Solution: Core Optimizer™

Unique Platform

You only need a single software to simulate all the core combinations, including custom cases

Visual Graphs

The Optimizer presents the solutions using intuitive and interactive graphs



< 5 seconds

Each simulation takes less than 5 seconds

Lab Tests

The Optimizer uses updated steimetz parameters from manufacturers and the results are continuously tested in our Lab

DEMO

Watch the video: [Core Optimizer Technical Demonstration](#)

The screenshot displays the Frenetic Core Optimizer interface. At the top, there are navigation tabs: Waveform, List of Designs, Core Optimizer™ (active), Core, Winding, Mechanical, and Datasheet. The main area is titled 'Core Optimizer™' and shows a search bar with 'Core_Optimizer_Example'. Below this are buttons for 'GENERATE PDF' and 'SHARE'. The interface is set to 'Transformer' mode and 'Full Bridge' topology. A 'USE ONLY MATERIALS IN STOCK' filter is active. The main graph plots 'Core Loss (W)' on the y-axis (0 to 6) against 'Turns' on the x-axis (15 to 40). A blue curve shows the loss increasing with turns. Three data series are plotted: PQ3535_Ferroxcube_3C95 (black dots), PQ2935_Ferroxcube_3C95 (red dots), and PQ3535_Ferroxcube_3C95_v2 (blue dots). A legend on the right identifies these series. Below the graph are buttons for 'DELETE', 'PLOT SELECTED CORES', and 'APPLY'. On the left, a configuration panel shows: Core Loss Target (W) = 2, Core = PQ35/35, Stacks = 1, Material = Ferroxcube 3C95. A summary panel below shows: Core = PQ35/35, Turns = 25, Core Losses (W) = 1.02, Bpeak (mT) = 63.32, Pdensity (kW/L) = 12.67, and WxDxH (mm) = 36.1x34.7x32.0. At the bottom, there are status indicators for temperature (T(°C) = 25) and power (P_r(W) =), and buttons for 'OPEN CONSOLE', 'PLOTTER', 'ORDER MAGNETIC', and 'SAVE'.