Updated Curve Fit Equation Tool Eases Magnetics Design

Magnetics has updated their Curve Fit Equation tool to include the new EQ and LP shape powder cores, the new Kool Mµ Hƒ and Edge powder core materials, and multiple new permeabilities. Equations have been updated to reflect performance improvements across multiple product lines. The tool is an Excel file for design engineers working on calculations from the formulas in the 2020 Magnetics Powder Core catalog.

Using this tool, magnetic component engineers can compare core performance including permeability vs. dc bias, core loss density, normal magnetization, permeability vs. frequency, and permeability vs. temperature (see the figure). Magnetics provides five comparison tables in this file for various core shapes based on eight different powder core materials: MPP, High Flux, Kool Mu, XFlux, Kool Mµ MAX, Kool Mµ Hƒ, Edge, and the 75 series.

To download the Excel file, see the Magnetics web page.

Figure. Equations in Magnetics' Curve Fit Equation tool been updated to reflect performance improvements across multiple product lines including the new EQ and LP shape powder cores, the new Kool Mµ Hƒ and Edge powder core materials, and multiple new permeabilities.