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NANOPERM LM cores for DC biased applications

So far, nanocrystalline cores could not be used in applications with significant DC preload because they saturate early due to their high permeability level (> 18.000), which gives only an advantage in non DC applications.

MAGNETEC now offers high saturation cores which enter into a low permeability range of typically 2.000-8.000 which was not available so far.

Those cores are very much advantageous in EMC filters for applications with a high amount of asymmetric interference current (e.g. inverter drives) concerning build volume and/or attenuation performance compared to the established Ferrite materials. The reason for that is, that the nanocrystalline core material **NANOPERM LM** (low μ) offers three times as much saturation flux density at the same level of permeability.

Another field of application are precision Current transformers for household energy meters which are currently equipped with very expensive cobalt-amorphous cores. Here, the new material offers a significant cost advantage.

The new cores of the **NANOPERM LM** series are offered to public during this year's PCIM in Nuremberg.

Further Informations:

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