

High inductance and high impedance in a wide frequency range

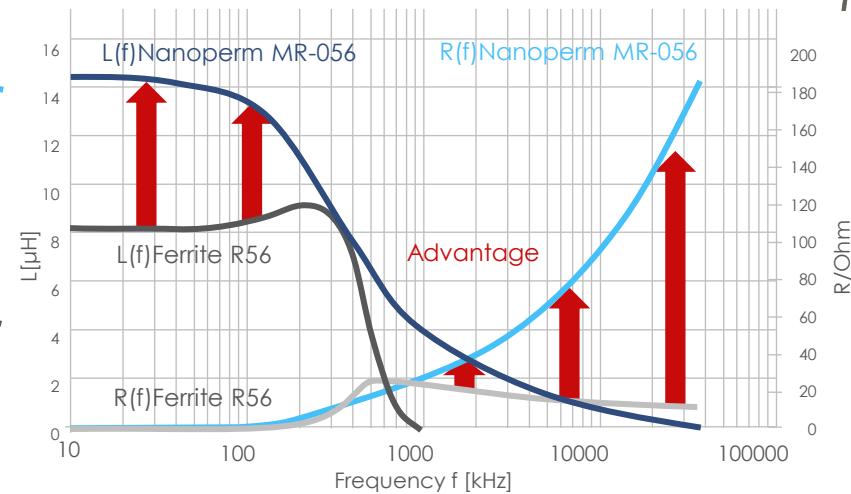
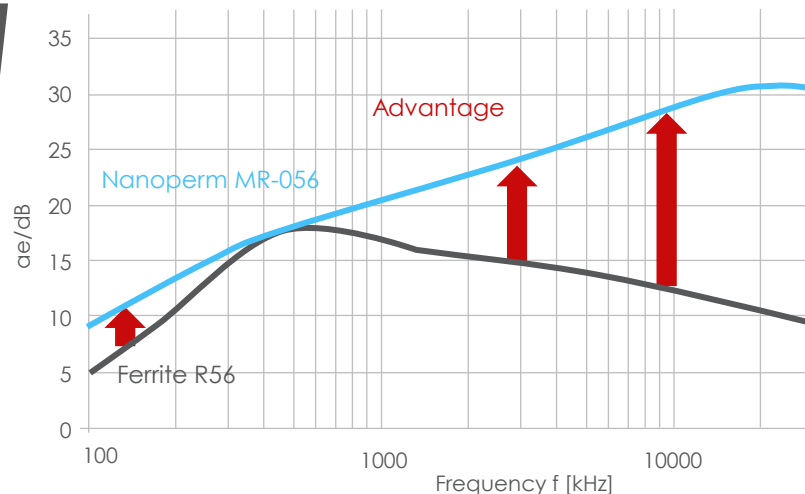
Advanced EMI suppression over a wide frequency range

Low saturation flux density drop at high temperatures

High saturation current and lower power loss

Curie temperature as high as app. 600°C

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Magnetec offers nanocrystalline tape wound cores from Nanoperm which substitutes 1:1 power ferrites from a core size of 56mm and higher. The new soft magnetic cores of the Nanoperm MR series are mechanically compatible with the current design of power ferrites and offer significant benefits regarding inductance, saturation level, core losses and impedance over frequency. Thus no costly redesigns in existing applications is needed and for new designs similar design rules as for the ferrite design can be applied.

Types	Al [µH] @ 10kHz	Nominal dim. [mm] do x di x h	Finished dim [mm] Do <sub>max</sub> x Di <sub>min</sub> x H <sub>max</sub>	Lfe [cm]	Afe [cm <sup>2</sup> ]	Isat* [Apk]
<a href="#">MR-056</a>	13	53 x 34 x 17	57,3 x 30,9 x 19,5	14	1,2	9
<a href="#">MR-063</a>	18	61 x 40 x 23	65,3 x 36 x 26,2	16	1,9	10
<a href="#">MR-080</a>	15	78 x 42 x 13	83 x 38,4 x 15,9	18	1,8	12
<a href="#">MR-102</a>	10	100 x 67 x 13	104,7 x 63,6 x 16,4	26	1,6	17
<a href="#">MR-140</a>	11	140 x 107 x 23	143,7 x 103,1 x 27,0	38	2,8	26
<a href="#">MR-202</a>	12	204 x 153 x 23	206,9 x 148,7 x 27,0	56	4,4	37

only for information, no guaranteed values For all information no liability assumed. \*\*Quasi Saturation Current\* @ B = 1,0 T / μ<sub>nom</sub> / N = 1