

NANOPERM® - Low cost cores for small EMI filter chokes



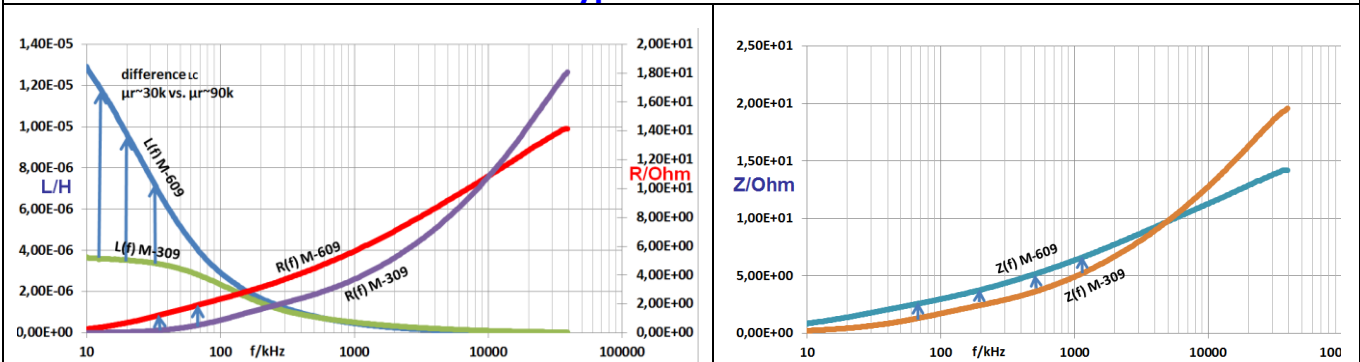
With the LC low cost typeline **MAGNETEC** has specially designed cores for common mode filter chokes; i.e. high attenuation is achieved with a minimum of core material. This is a new alternative to existing Ferrite based solutions. The big inner hole make a high number of turn possible. Two types are available, M-3xx having a permeability of 30k@10kHz and M-6xx having a permeability of 90k@10kHz.

See www.magnetec.de for product infosheets:
 Cased_core selection matrix
 CoolBLUE® High μ
 CoolBLUE® Low μ

Type $\mu\sim 30k$	Type $\mu\sim 90k$	Dimensions [mm]		l_{fe} [cm]	a_{fe} [cm ²]	Type 30k	Type 60k
		nominal $d_a \times d_i \times h$	physical $D_a \times D_i \times H$			A_L^{nom} @ 10kHz [μH]	A_L^{nom} @ 10kHz [μH]
M-306	M-606	16 x 11 x 5	18,4 x 8,6 x 7,0	4,2	0,1	5,9 - 11,8	18,4 - 36,8
M-307	M-607	20 x 15 x 5	22,4 x 12,6 x 7,5	5,5	0,1	4,5 - 9,1	14,1 - 28,3
M-308	M-608	25 x 20 x 5	27,7 x 17,1 x 7,5	7,0	0,1	3,5 - 7,0	11,0 - 21,9
M-309	M-609	30 x 25 x 5	32,7 x 22,0 x 7,5	8,6	0,1	2,8 - 5,7	9,0 - 17,9
M-310	M-610	40 x 35 x 5	42,5 x 31,8 x 7,5	11,8	0,1	2,1 - 4,2	6,3 - 12,5
M-333	M-633	50 x 45 x 5	52,2 x 41,8 x 7,5	14,9	0,1	1,6 - 3,3	5,2 - 10,4
M-334	M-634	60 x 55 x 5	62,0 x 51,6 x 7,5	17,7	0,1	1,3 - 2,8	4,3 - 8,6
M-335	M-635	70 x 65 x 5	72,0 x 61,4 x 7,5	20,9	0,1	1,1 - 2,3	3,6 - 7,3

Design: Cased in plastic box

Typical behavior



The **NANOPERM® Low Cost** cores offers following benefits:

- **Small weight**
- **High leakage inductance**
- **Advanced and uniform attenuation**

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