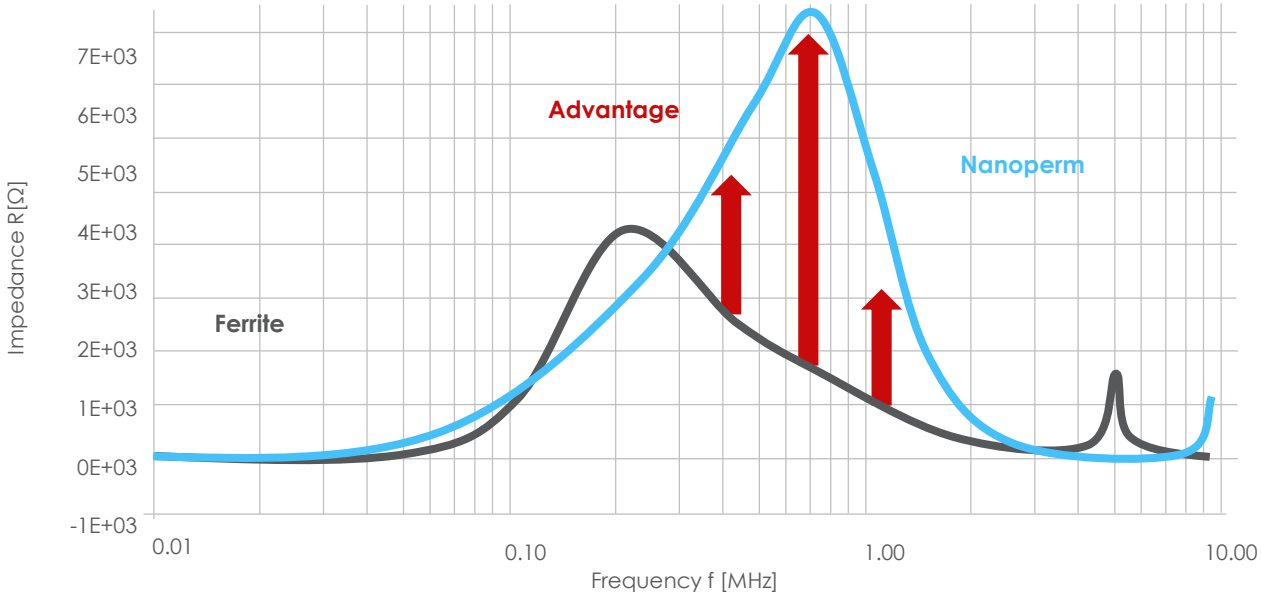
Nanoperm

2-fold common-mode RFI/EMI suppression chokes acc. to EN60938-1 for mains filter applications

Magnetec

- 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 operational temperature up to 130°C
- Curie temperature as high as app. 600°C



Magnetec offers this standard range of 2-fold common-mode chokes based on nanocrystalline tape wound cores from Nanoperm for any EMI filter application compared to widely spread ferrite versions, Magnetec's nanocrystalline solutions enable significantly smaller and lighter EMI suppression filters. In frequency inverter applications the smaller size enables to integrate former external filters into the inverter housing which is a very attractive option for the market. Furthermore, the smaller design results in lower copper losses and thus lower overtemperature and reduced cooling cost. Compared to ferrite chokes, the 2-fold common-mode chokes offer significantly higher attenuation levels up to the MHz range, better saturation performance and are more temperature-resistant with the same core size. Chokes are available for the nominal current range from 2–40 Amps, designed acc. to EN60938-1. Operating temperature range: -40...+70°C. The plastic materials fulfill UL-94 V0 and are UL listed.

Magnetec GmbH
0049 6184 9202 0
www.magnetec.de
info@magnetec.de

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Types	I_{nom} [A] convection cooling	I_{nom} [A] forced cooling	*I_{sat} [mA]	L_{nom} @10kHz [mH]	Ls [µH]	Rcu [mΩ]	Pin-Ø [mm]	style	Dimensions [mm] Do_{max}xDi_{min}xH_{max}
MB-690	2	2,8	13	2 x 20,0	~ 19	< 85	0,7	flat	22,6 x 22,2 x 12,7
MB-631	3	4	17	2 x 11,5	~ 11	< 40	0,7	flat	22,6 x 22,2 x 12,7
MB-694	3	4	20	2 x 11,0	~ 10	< 40	0,56	upright	22 x 12,3 x 25
MB-602	4	5,5	15	2 x 75,0	~ 55	< 65	0,8	upright	34 x 19 x 35,5
MB-618	4,5	6	25	2 x 5,0	~ 8	< 23	0,7	flat	22,6 x 22,2 x 12,7
MB-640	6	8	25	2 x 6,3	~ 6	< 22	0,71	upright	22 x 12,3 x 25
MB-606	7	10	25	2 x 30,0	~ 55	< 27	1,0	upright	34 x 19 x 35,5
MB-609	8	11	30	2 x 18,0	~ 13	< 17	2 x 0,8	upright	34 x 19 x 35,5
MB-639	8,5	12	120	2 x 35,0	~ 20	< 21	1,12	upright	34 x 19 x 35,5
MB-622	10	14	450	2 x 0,6	~ 4	< 8,5	1,0	upright	34 x 19 x 35,5
MB-603	10	14	40	2 x 12,0	~ 10	< 11	2 x 0,85	upright	34 x 19 x 35,5
MB-696	12	17	100	2 x 7,1	~ 30	< 12,1	1,4	upright	38,5 x 23 x 40
MB-632	14	20	45	2 x 2,4	~ 3	< 8	0,9	upright	22 x 12,3 x 25
MB-684	16	22	80	2 x 3,0	~ 2,5	< 2,5	1,8	upright	30 x 20 x 30
MB-607	16	22	55	2 x 6,3	~ 5	< 6	2 x 1,12	upright	34 x 19 x 35,5
MB-605	18	25	80	2 x 3,0	~ 5	< 4	2 x 1,0	upright	34 x 19 x 35,5
MB-620	19	27	85	2 x 35,0	~ 12	< 7,5	2,0	flat	59 x 59 x 33,5
MB-921[1]	20	28	270	2 x 1,8	~ 8	< 6	1,6	flat	60 x 60 x 24
MB-615	22	30	110	2 x 1,6	~ 2	< 1,7	2 x 1,32	upright	34 x 19 x 35,5
MB-608	26	36	185	2 x 0,6	~ 5	< 1,6	2 x 1,18	upright	34 x 19 x 35,5
MB-633	30	42	140	2 x 1,0	~ 0,8	< 1,2	2 x 1,5	upright	34 x 19 x 35,5
MB-740	40	56	485	2 x 4,5	~ 3,9	< 1,85	2,5	flat	52 x 52 x 32

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0049 6184 9202 0
www.magnetec.de
info@magnetec.de

For all information no liability assumed; *Isat: "Quasi Saturation Current" @ B = 1,0 T / μ_{nom} / N = 1, Saturation current Isat of Nanoperm: Peak value of the exiting current when the initial inductance level is dropped to 10 per cent, see www.magnetec.de. Environment temperature of 70°C, at another environment temperature, the new nom. current can be estimated acc. to the derating theory: www.magnetec.de/derating. Overtemperature needs to be checked in the application. At forced cooling, double Rth value is assumed. [1] preliminary