3-fold common mode NANOPERM® chokes



Types	Inom free convection on	Inom' forced cooling	Isat* /mA	L_N @ 10 kHz [mH]	L_S [µH]	Rcu [mΩ]	Pin Ø [mm]	H x B x T [mm]	Design
MB-074 [1]	3,5	5	80	3 x 6	~ 20	< 40	0,8	38 x 36 x 21	upright
MB-049[1]	5	7	60	3 x 8	~ 60	< 36	1,12	42 x 42 x 27	flat
MB-185	8	11	40	3 x 19	~20	<20	1,12	48x48x26	flat
MB-650[1]	10	14	110	3 x 11	~ 56	< 15	1,6	60 x 60 x 29	flat
MB-188	8,5	12	80	3 x 12	~12	<13	1,18	ca.45x45x25	flat
MB-687	12	17	450	3 x 2,5	~ 7	< 9	1,25	47,5 x 47 x 26	upright
MB-051	12	17	150	3 x 5	~25	<8,6	1,8	59x59x27	flat
MB-652	17	24	300	3 x 3	~ 30	< 7,9	1,8	69 x 69 x 29,5	flat
MB-637	14	20	80	3 x 4,4	~ 12	< 5,5	1,4	48,5 x 48,5 x 26	flat
MB-540[1]	15	20	85	3 x 15	~ 16	< 7,0	1,8	59,5 x 59,5 x36,5	flat
MB-617	16	22	90	3 x 11	~ 9	< 6	1,8	52x52x34	flat
MB-114	18	25	260	3 x 7	~35	<5	2,5	75x75x33	flat
MB-634	20	28	400	3 x 1,7	~ 14	< 4,85	2,0	60 x 30 x 60	upright
MB-427	20	28	4760	3x0,31	~8	<2,6	2,5	99,5x99,5x38	flat
MB-653	22	31	270	3 x 4	~ 19	< 4,8	2,24	69 x 69 x 37	flat
MB-157	25	35	300	3 x 6,2	~ 22	< 5,5	2,36	75 x 75 x 34	flat
MB-043	22	31	300	3 x 1,5	~8	< 2,6	2,5	60 x 60 x 30	flat
MB-054	27	38	300	3 x 3,2	~ 9	< 2,6	3,0	73 x 73 x 35	flat
MB-367	28	40	800	3 x 1,2	~ 0,7	< 1,8	3,0	70 x 45 x 70	upright
MB-047	30	42	350	3 x 4	~ 20	< 3,8	5,0	81 x 81 x 62	flat
MB-691	35	50	150	3 x 3	~ 4	< 1,6	2,5	60 x 60 x 34	flat
MB-426	45	64	6660	3 x 0,16	~4,5	<0,95	2x2,5	99,5x99,5x38	flat
MB-656[1]	60	85	450	3 x 3,5	~ 17	< 1,35	2x3,35	115 x 115 x 50	flat
MB-657[1]	100	140	500	3 x 2,5	~ 10	< 0,85	11,5	130 x 130 x 55	flat
MB-058[1]	160	225	1200	3 x 2	~ 10	< 0,5	22,5	158 x 158 x 75	flat

For all information no liability assumed.

*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. [1]preliminary

Overtemperature needs to be checked in the application. Environment temperature usually at 70°C, see datasheets, at another environment temperature, the new nom. current can be estimated acc. to the derating theory: http://www.magnetec.de/fileadmin/pdf/derating.pdf. In forced cooling condition, double Rth value is assumed.

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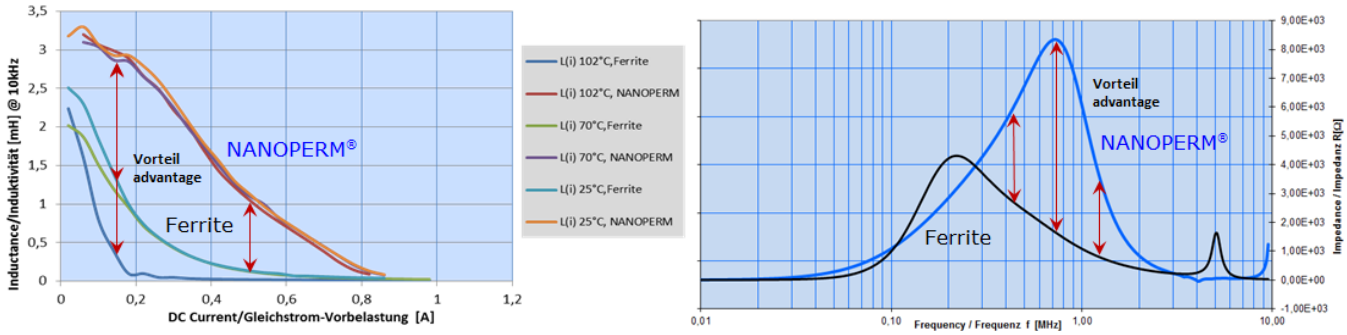
Example choke – weight and size comparison Ferrite vs. NANOPERM® choke

Diff. example choke - performance comparison of a NANOPERM® choke vs. Ferrite based choke



With the same core size NANOPERM® offers significantly improved attenuation levels up to the MHz range
For typical impedances vs. frequency charts, please visit www.magentec.de.

Our Chokes are based on tape wound cores based on the nanocrystalline softmagnetic material **NANOPERM®**. Compared to chokes made of ferrite cores, the following benefits are achieved:

- **High impedance and advanced EMI suppression**
- **Higher saturation flux density**
- **Less temperature sensitive**
- **higher max. component temp (130°C)**

Chokes are available for the nominal current range from 3,5 – 160 Amps, designed acc. to EN60938-1.
The plastic materials fulfill UL-94 V0 and are UL listed.

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