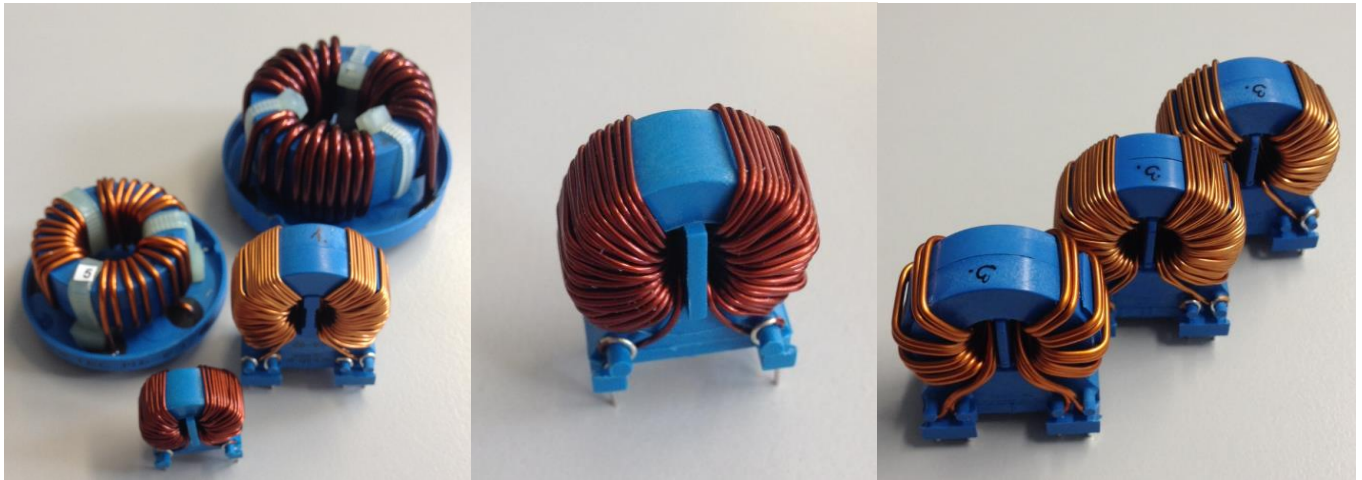


### 2-fold common mode RFI suppression chokes with NANOPERM® cores



Types	Inom free convection	Inom' forced cooling	Isat* /mA	Lnom @ 10kHz /[mH]	Ls/ µH	Rcu/ mΩ	Pin- Ø/mm	style	Dimensions W x D x H [mm]
<b>MB-690</b>	2	2,8	13	2 x 20,0	~ 19	< 85	0,7	flat	22,6 x 22,2 x 12,7
<b>MB-631</b>	3	4	17	2 x 11,5	~ 11	< 40	0,7	flat	22,6 x 22,2 x 12,7
<b>MB-694</b>	3	4	20	2 x 11,0	~ 10	< 40	0,56	upright	22 x 12,3 x 25
<b>MB-602</b>	4	5,5	15	2 x 75,0	~ 55	< 65	0,8	upright	34 x 19 x 35,5
<b>MB-618</b>	4,5	6	25	2 x 5,0	~ 8	< 23	0,7	flat	22,6 x 22,2 x 12,7
<b>MB-640</b>	6	8	25	2 x 6,3	~ 6	< 22	0,71	upright	22 x 12,3 x 25
<b>MB-606</b>	7	10	25	2 x 30,0	~ 55	< 27	1,0	upright	34 x 19 x 35,5
<b>MB-609</b>	8	11	30	2 x 18,0	~ 13	< 17	2 x 0,8	upright	34 x 19 x 35,5
<b>MB-039</b>	8,5	12	120	2 x 35,0	~ 20	< 21	1,12	upright	34 x 19 x 35,5
<b>MB-022</b>	8,5	12	450	2 x 0,8	~ 4	< 8,5	1,0	upright	34 x 19 x 35,5
<b>MB-603</b>	10	14	40	2 x 12,0	~ 10	< 11	2 x 0,85	upright	34 x 19 x 35,5
<b>MB-096</b>	12	17	100	2 x 7,5	~ 30	< 12,1	1,4	upright	38,5 x 23 x 40
<b>MB-632</b>	14	20	45	2 x 2,4	~ 3	< 8	0,9	upright	22 x 12,3 x 25
<b>MB-184</b>	16	22	80	2 x 3,0	~ 2,5	< 2,5	1,8	upright	30 x 20 x 30
<b>MB-607</b>	16	22	55	2 x 6,3	~ 5	< 6	2 x 1,12	upright	34 x 19 x 35,5
<b>MB-605</b>	18	25	80	2 x 3,0	~ 5	< 4	2 x 1,0	upright	34 x 19 x 35,5
<b>MB-020</b>	20	28	85	2 x 33,0	~ 12	< 8	2,0	upright	59 x 59 x 33,5
<b>MB-615</b>	22	30	110	2 x 1,6	~ 2	< 1,7	2 x 1,32	upright	34 x 19 x 35,5
<b>MB-036</b>	23	32	125	2 x 5,0	~ 12	< 2,8	2,5	flat	59 x 59 x 31
<b>MB-608</b>	26	36	185	2 x 0,6	~ 5	< 1,6	2 x 1,18	upright	34 x 19 x 35,5
<b>MB-633</b>	30	42	140	2 x 1,0	~ 0,8	< 1,2	2 x 1,5	upright	34 x 19 x 35,5
<b>MB-740**</b>	40	56	485	2 x 4,5	~ 3,9	< 1,85	2,5	flat	52 x 52 x 32

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.magnetic.de](http://www.magnetic.de); \*\*: preliminary

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

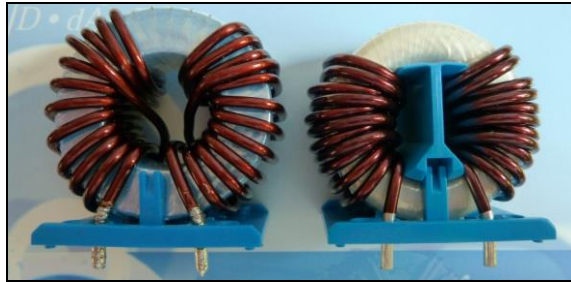
[www.magnetec.de](http://www.magnetec.de)

#### MAGNETEC GmbH

Industriestrasse 7, D-63505 Langenselbold, Germany

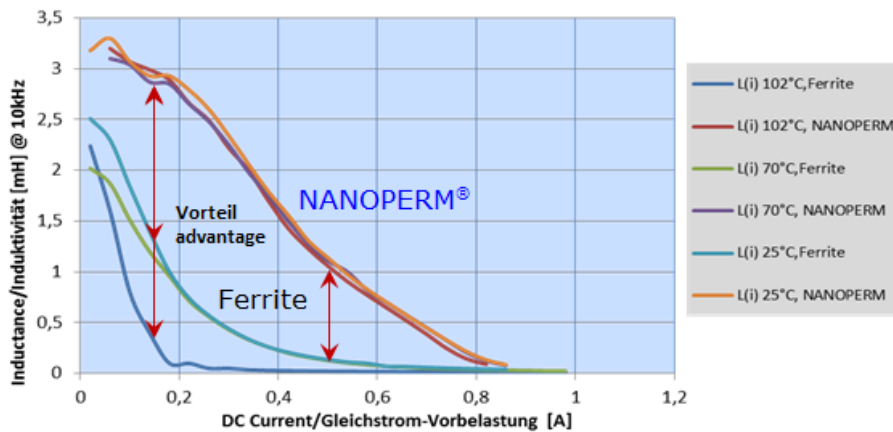
Fon: +49 6184 9202-0 / Fax: +49 6184 9202-20 / E-Mail: [magnetec@magnetec.de](mailto:magnetec@magnetec.de)

### 2-fold common mode RFI suppression chokes with NANOPERM® cores

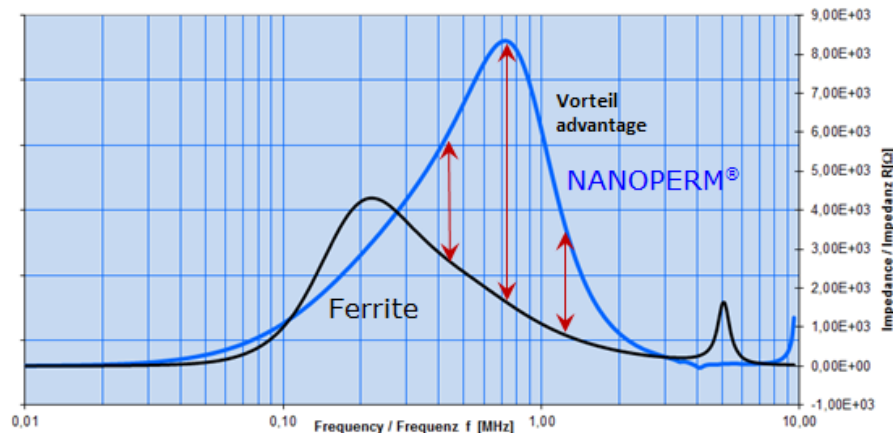


**Choke Parameters:**  
 Core: 40 x 25 x 15 mm  
 2 x 12 turns. Ø 2,4 mm  
 2 x 1,7 mH, 22A  
 Rcu = 2 x 2.8 mΩ

Example characteristics in comparison with Ferrite chokes:



With the same core size **NANOPERM®** offers significantly better saturation performance and is temperature resistant



With the same core size **NANOPERM®** offers significantly improved attenuation levels up to the MHz range  
 For typical impedances vs. frequency, please visit [www.magnetec.de](http://www.magnetec.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 better EMI suppression**
- **Higher saturation flux density**
- **Less temperature sensitive**
- **higher max. component temp (130°C)**

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.

[www.magnetec.de](http://www.magnetec.de)

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