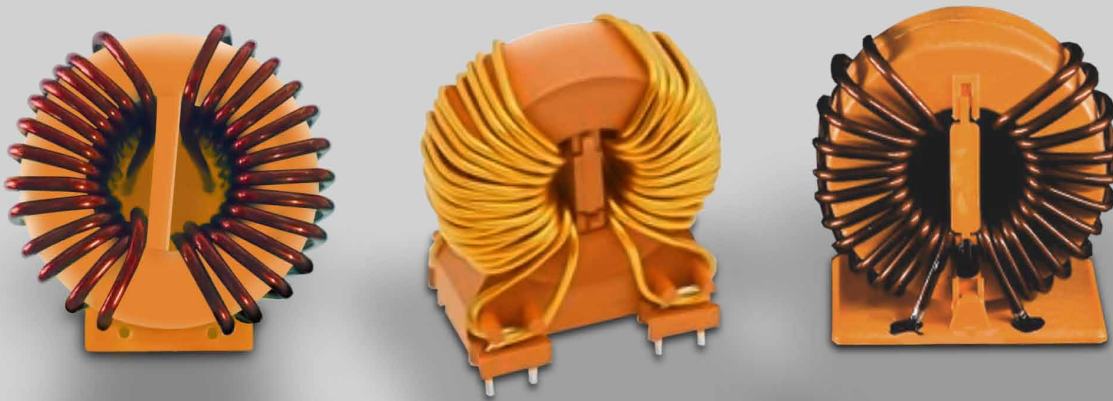


## Nanocrystalline Common Mode Chokes Product Sheet



scan for quote



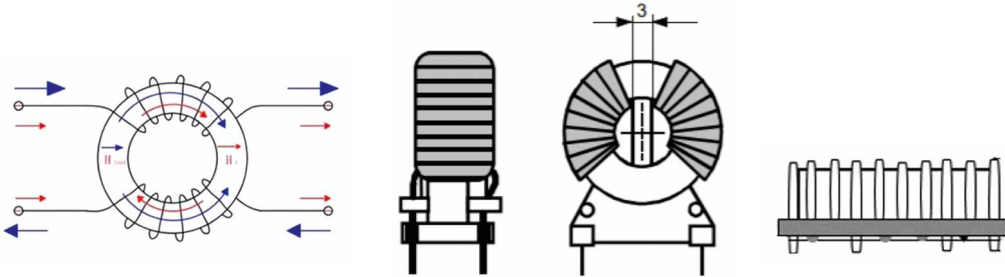
## Nanocrystalline Common Mode Chokes with a compact design and technical advantages vs. Ferritcore chokes

Nanocrystalline suppressor chokes have already found their place in the automotive sector due to their extremely compact design and excellent attenuation properties. Now they are becoming increasingly interesting in industrial applications when it comes to broad frequency spectra, low losses and low temperature dependence. For example, earlier external filters

can be replaced by integrated compact Nano-chokes in converter applications. Typical areas of application are: switching power supplies, solar inverter, wind generator, welding equipment, frequency converter.

Other advantages vs. Ferritcore chokes:

- ✓ Small design due to high permeability
- ✓ Small number of turns (small winding capacity, small copper losses)
- ✓ High attenuation over large frequency range
- ✓ Constant impedance over a wide Icm-range
- ✓ Attenuation property very stable over temperature
- ✓ No magnetic reversal at 200°C
- ✓ Normal working temperature does not have to be considered in the design (70°C)
- ✓ Low noise, NF and HF range
- ✓ Low magnetostriction
- ✓ Robust with mechanical load
- ✓ HF-interference current is absorbed and not reflected
- ✓ High saturation induction 1,2T (interference pulses can saturate common mode chokes)



### Extract of our catalog parts (2-fold):

MRC Ref.	Version	$I_N$ [A]	$L_N$ [mH]	$R_{Cu}$ [mOhm]	$L_s$ [uH]	Turns	Wire [mm]	max. dimensions* [mm]
LF2516-MRCW002	upright	4	75	58	70	35	2 x 0,85	34 x 19,2 x 35,5
LF2516-MRCW012	horizontal	4	75	58	70	35	2 x 0,85	∅ 38 H 24
LF2516-MRCW006	upright	7	30	27	55	22	2 x 1,00	34 x 19,2 x 35,5
LF2516-MRCW016	horizontal	7	30	27	55	22	2 x 1,00	∅ 38 H 24
LF2516-MRCW009	upright	8	18	17	13	17	2 x 0,80	34 x 19,2 x 35,5
LF2516-MRCW019	horizontal	8	18	17	13	17	2 x 0,80	∅ 38 H 24
LF2516-MRCW003	upright	10	12	11	10	14	2 x 0,85	34 x 19,2 x 35,5
LF2516-MRCW013	horizontal	10	12	11	10	14	2 x 0,85	∅ 38 H 24
LF2516-MRCW004	upright	12	14	12	10	14	2 x 1,18	34 x 19,2 x 35,5
LF2516-MRCW014	horizontal	12	14	12	10	14	2 x 1,18	∅ 38 H 24
LF2516-MRCW007	upright	16	6,3	6	5	10	2 x 1,12	34 x 19,2 x 35,5
LF2516-MRCW017	horizontal	16	6,3	6	5	10	2 x 1,12	∅ 38 H 24
LF2516-MRCW005	upright	18	3	4	5	7	2 x 1,00	34 x 19,2 x 35,5
LF2516-MRCW015	horizontal	18	3	4	5	7	2 x 1,00	∅ 38 H 24
LF2516-MRCW010	upright	22	1,6	1,8	2	5	2 x 1,32	34 x 19,2 x 35,5
LF2516-MRCW020	horizontal	22	1,6	1,8	2	5	2 x 1,32	∅ 38 H 24
LF2516-MRCW008	upright	26	0,6	1,6	5	3	2 x 1,18	34 x 19,2 x 35,5
LF2516-MRCW018	horizontal	26	0,6	1,6	5	3	2 x 1,18	∅ 38 H 24

Die Angaben sind unverbindlich und können ohne vorherige Information angepasst werden.

\*preliminary

$I_N$  = nominal current at max. 60° C ambient temperature (convection cooling)

$L_N$  = nominal inductance +50/-30% at 10kHz

$R_{Cu}$  = DC-resistance of a winding at room temperature

$L_s$  = leakage inductance

You have not found the right choke? Please contact us at [info@mrccomponents.de](mailto:info@mrccomponents.de)

**Important note:** For safety and the proper usage, you are requested to approve the offered product specification for your application. These products are designed for general electronic devices. Performance and safety of this product for applications which could lead to physical harm is not confirmed. Be sure to examine the performance and safety when the product is used for these applications and take appropriate measures, such as failsafe, to avoid any accident. It is the responsibility of user to take such measures.