crystal clear
frequencies.

WÜRTH ELEKTRONIK

#CRYSTALCLEAR

WE speed up the future

The WE-CMBNC is a VDE certified series of common mode chokes with a highly permeable **nanocrystalline core material.** Despite the small size, it delivers outstanding broadband attenuation performance, high rated currents and low DC resistance values. Low profile and high voltage ratings can also be realized by the common mode chokes of the WE-CMB family.
For further information, please visit:
www.we-online.com/we-cmb

- High permeability nanocrystalline core material
- High I_R & low R_{DC} in a small size
- Broadband suppression
- Stable inductance values at high temperatures
- Improved isolation through plastic case and patented winding spacer


Nanocrystalline
WE-CMBNC


MnZn
WE-CMB


NiZn
WE-CMB NiZn

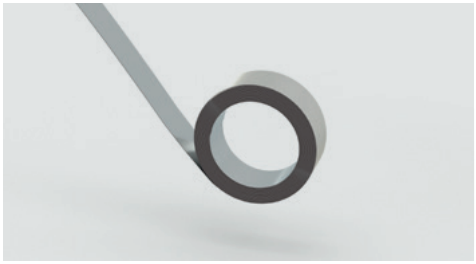

MnZn/NiZn
WE-ExB


Horizontal
WE-CMBH

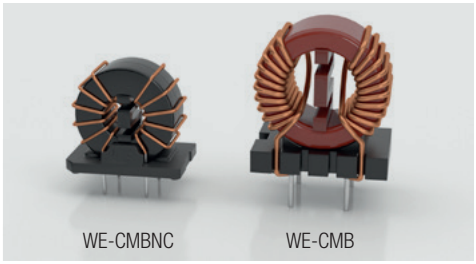

High Voltage
WE-CMB HV

WE-CMBNC
Common Mode Power Line Chokes – Nanocrystalline Core

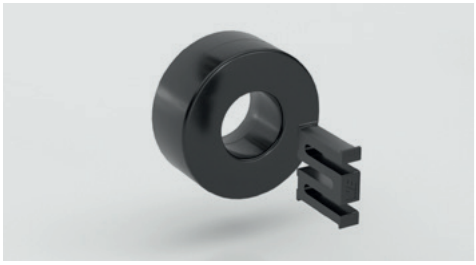
Innovative Design



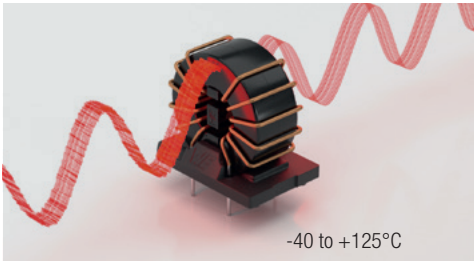
High permeability nanocrystalline core material



High I_R & low R_{DC} in a small size



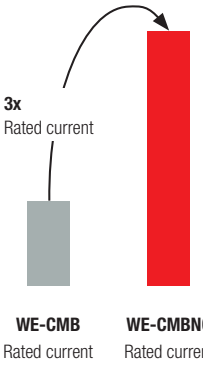
Improved isolation through plastic case and winding spacer



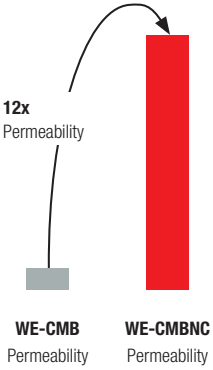
Stable inductance values at high temperatures

Characteristics

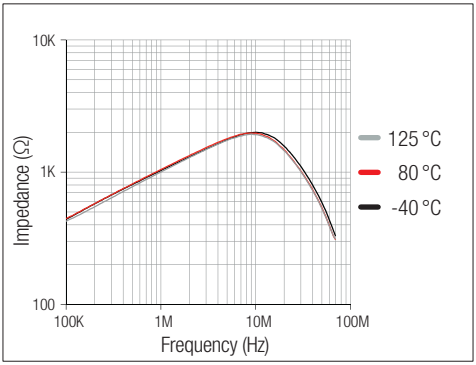
High Rated Current & Low DC Resistance



High Permeability

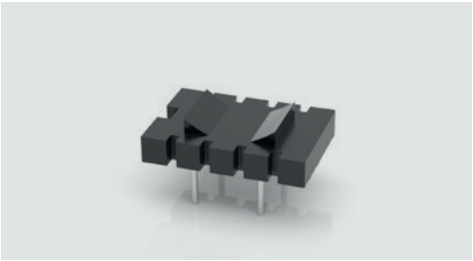


Excellent Temperature Stability of the WE-CMBNC

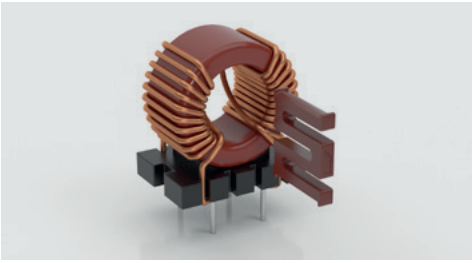


WE-CMB
Common Mode Power Line Chokes – All Series

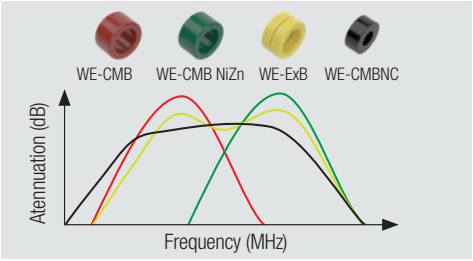
The Special Features



Optimized plastic base for best mechanical stability



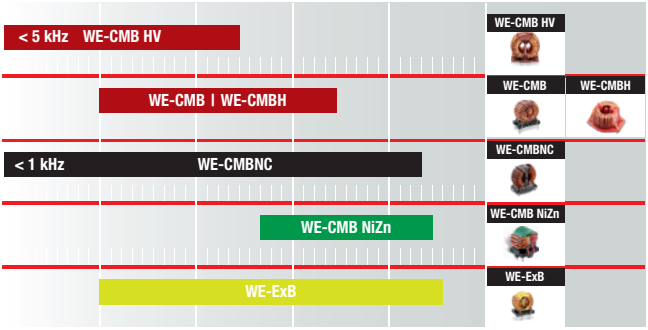
Patented winding spacer



Broadband suppression

Low profile and high voltage version

Wide Variety of Frequency Ranges for Different Applications



MnZn	Manganese-Zinc	Nanocrystalline	Nanocrystalline
NiZn	Nickel-Zinc	NiZn / MnZn	Nickel-Zinc / Manganese-Zinc

Applications

- Power electronics
- Power line input and output filter
- Radio interference suppression in motors
- Suppression of common mode noise

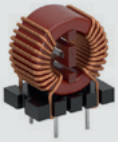
Certified according to EN 60938-2

WE-CMB Series
Common Mode Power Line Chokes

Products & Design Kits Overview

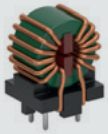
WE-CMBNC – Nanocrystalline Core – Broadband Suppression

Type	L x W x H (mm)	L (mH)	I_R (A)	R_{DC} (mΩ)	U_R (V_{AC})	Design Kit
XS	15 x 7.5 x 16	0.4 – 11	0.9 – 4.5	22 – 430	250	744 821
M	23 x 17 x 25	1 – 33	2.5 – 15	3.3 – 90		
L	30 x 19 x 32	1 – 82	2.5 – 20	2.4 – 170		
XL	37 x 23 x 36	0.9 – 190	2 – 32	1.1 – 310		
XXL	48 x 27 x 46	1.5 – 35	5 – 38	2.3 – 90		



WE-CMB – MnZn Core – Low Frequency Suppression

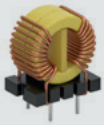
Type	L x W x H (mm)	L (mH)	I_R (A)	R_{DC} (mΩ)	U_R (V_{AC})	Design Kit
XS	15 x 7.5 x 18	1 – 39	0.3 – 2	4.5 – 3000	250	744 800
S	17.5 x 13 x 22	0.175 – 20	0.5 – 10	4 – 540		
M	25 x 17 x 26.5	1 – 20	1.5 – 6	13 – 270		
L	27.5 x 18.5 x 33	1 – 20	2 – 10	7 – 220		
XL	31 x 22 x 35	1 – 33	3 – 12	9 – 210		
XXL	47 x 23.5 x 43	0.5 – 1.8	14 – 35	2.3 – 9.5		



WE-CMB NiZn – NiZn Core – High Frequency Suppression

Type	L x W x H (mm)	L (mH)	I_R (A)	R_{DC} (mΩ)	U_R (V_{AC})	Design Kit
XS	16 x 7.5 x 17.5	14 – 100	1.5 – 4	15 – 80	250	744 821
S	18.5 x 14.5 x 22	16 – 110	3 – 10	2.7 – 31		

Unique and innovative dual core design



WE-ExB - MnZn & NiZn – Low & High Frequency Suppression

Type	L x W x H (mm)	L (mH)	I_R (A)	R_{DC} (mΩ)	U_R (V_{AC})	Design Kit
L	28 x 18.5 x 33	47 – 1000	4.5 – 15	4.6 – 42	250	744 821

WE-CMBH – MnZn & Horizontal Design – Low Profile Applications

Type	L x W x H (mm)	L (mH)	I_R (A)	R_{DC} (mΩ)	U_R (V_{AC})	Design Kit
L	32.5 x 28 x 17.3	1 – 7	3.5 – 10	12.5 – 80	250	744 825

WE-CMB HV – MnZn & Special Spacer – High Voltage Applications

Type	L x W x H (mm)	L (mH)	I_R (A)	R_{DC} (mΩ)	U_R (V_{AC})	Design Kit
XL	42.5 x 23 x 39.5	0.7 – 3.9	8 – 21.5	3.8 – 31	760	744 821
XXL	46.5 x 28 x 44.5	1 – 4.7	6.8 – 20.5	5.5 – 44		