

**Wurth Electronics Midcom Inc.**  
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## Press Release

### Wurth Electronics develops nanocrystalline common mode chokes for line filters

Common mode chokes are used as in line filters to reduce broadband mains-borne radio interference. Wurth Electronics has developed current-compensated common mode chokes with nanocrystalline cores for this purpose. The new WE-CMBNC product family is made with nanocrystalline cores and features broadband attenuation. Compared with conventional cores made of MnZn and NiZn core materials, nanocrystalline cores have 20 times more permeability. Mains borne interference can, thus, be reduced down into the low kHz frequency range, where conventional NiZn and MnZn cores have very little attenuate effect. Even in high frequency ranges, high levels of attenuation can be achieved due to the low winding capacitance. Compared with conventional cores, the Currie temperature is about three times higher, so push-pull interference cannot result in saturation of the mains choke. All mains chokes are available from warehouse stock. Free samples are available upon request.

#### About Wurth Electronics Midcom:

*Wurth Electronics Midcom is a global leader in the design and manufacture of custom magnetics. A standard line of magnetics is offered, including inductors, ferrites, chokes, and EMI shielding materials. Recently, the electromechanical and interconnect line was added to the product offering, which includes Board-to-Board, Wire-to-Board, Terminal Blocks, and Input/Output Communication.*

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*Customers in Asia, Europe and the Americas are supported through a local direct technical sales network, regional design and applications engineers and manufacturing based in the People's Republic of China.*

*Our standard lines and custom-made transformers are used around the world in LED lighting, smart grid and utility metering, industrial controls, telecom (CPE and CO), home automation, and home appliances.*

*Wurth Electronics Midcom offers all catalog products in stock. Free samples are offered to customers on connectors and both catalog and custom magnetics.*

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