

EMC COMPONENTS FOR YOUR REQUIREMENTS

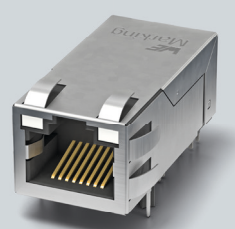
WÜRTH ELEKTRONIK MORE THAN YOU EXPECT



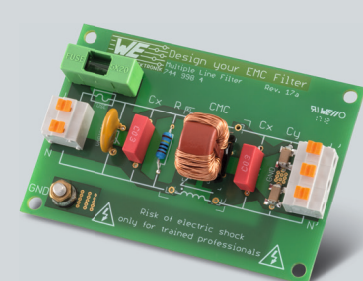
Quick Solutions



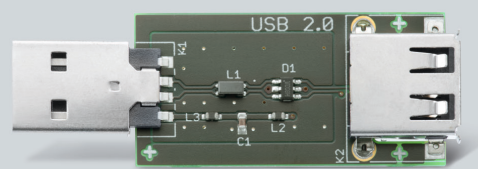
ShieldIDY



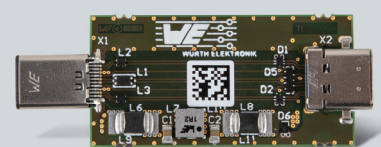
Filtered Connectors



Evaluation Boards



USB 2.0 EMC Stick



USB 3.1 EMC Stick

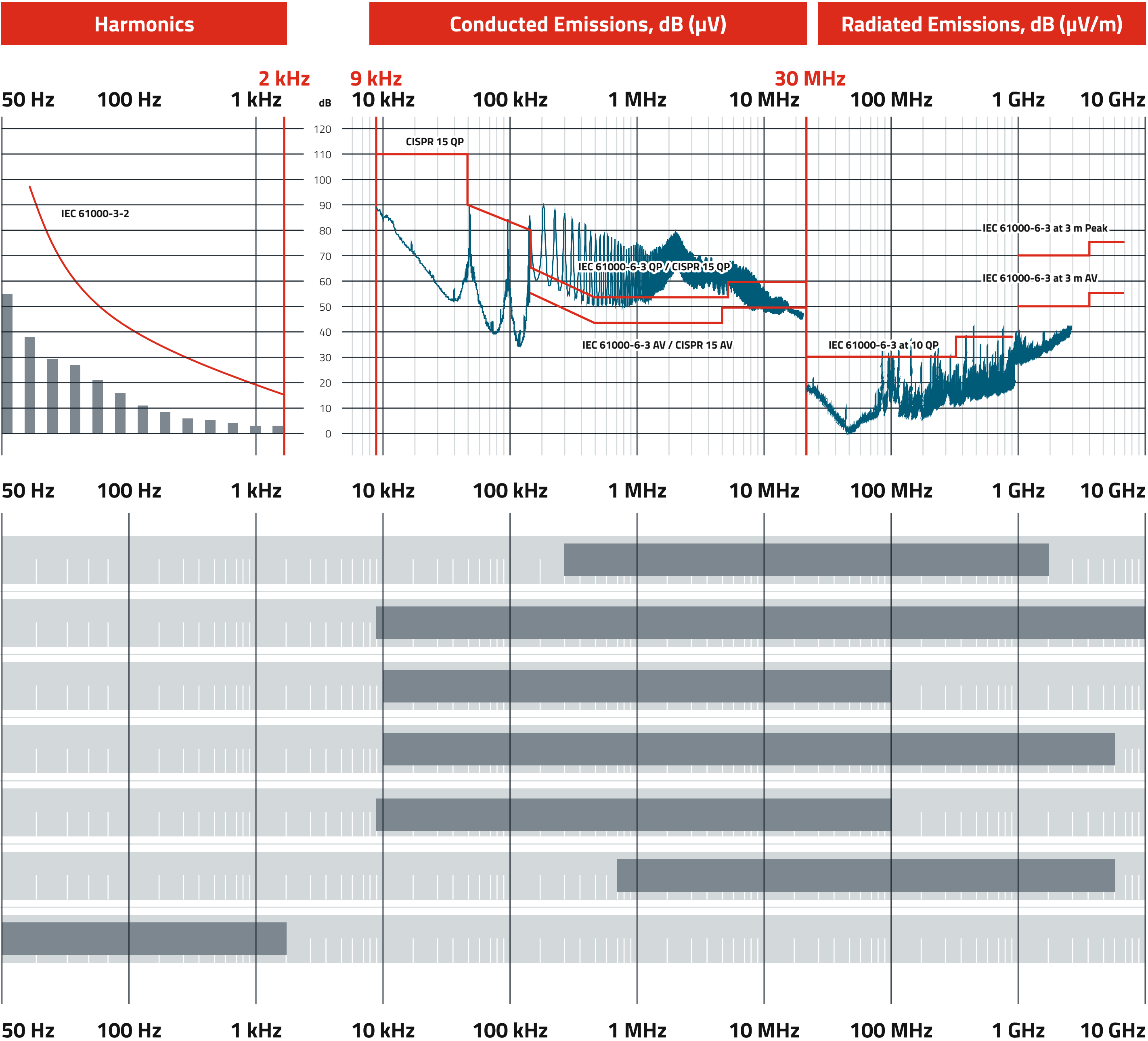


Application Notes:
www.we-online.com/appnotes

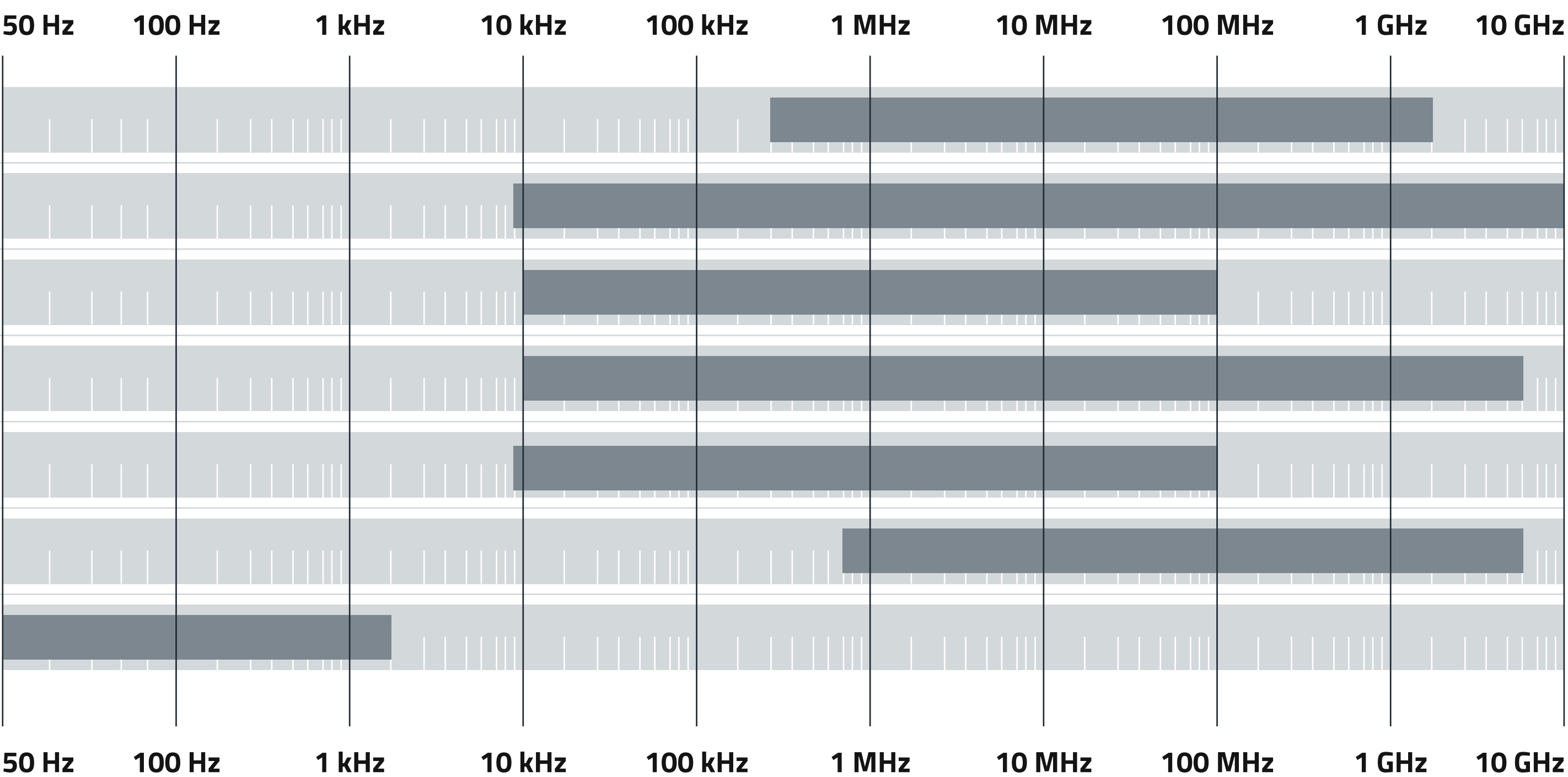
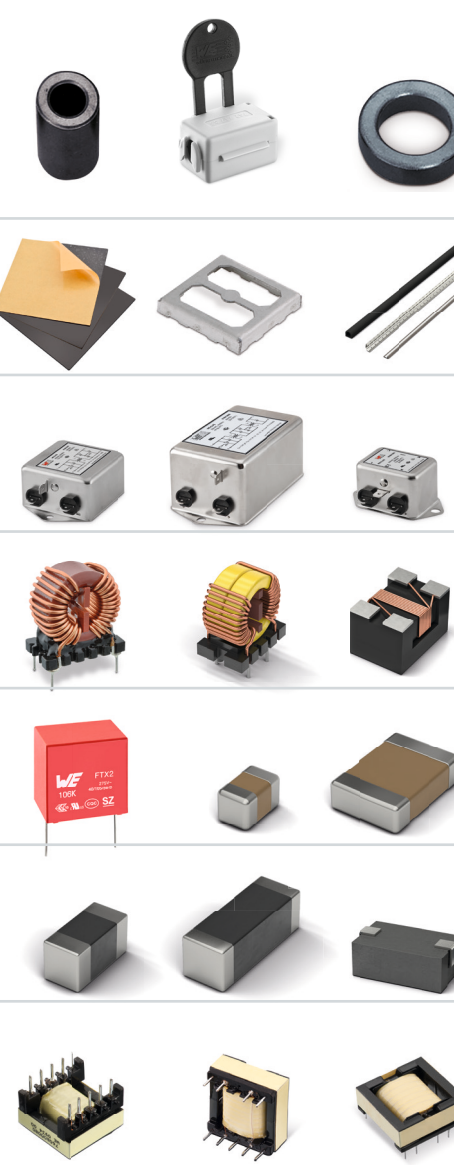
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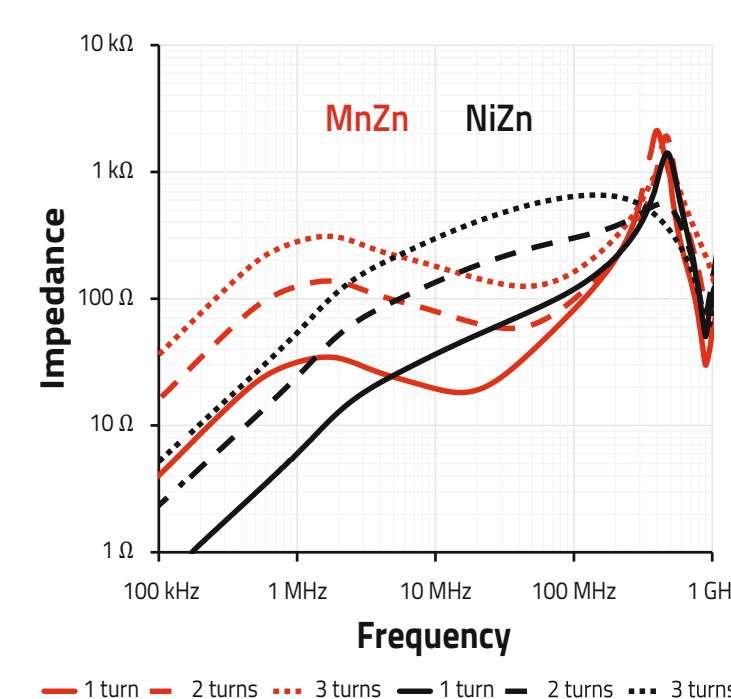


- 1 Cable Ferrites
- 2 Shielding Materials
- 3 Complete Line Filters
- 4 Common Mode Chokes
- 5 Safety Capacitors
- 6 PCB Ferrites



1 Cable Ferrites

Impedance comparison:



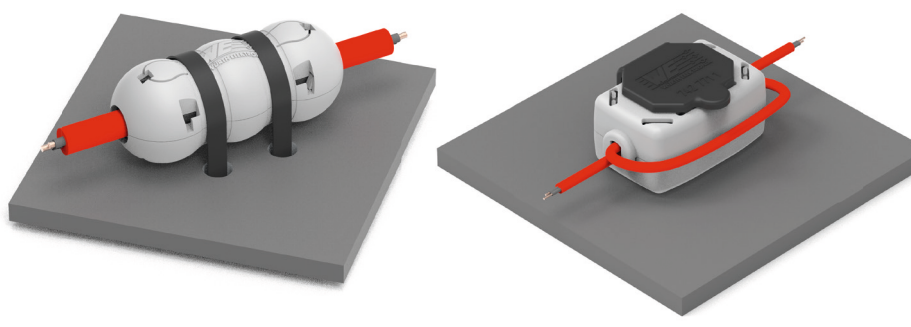
Key Technology



Solid Ferrites



Flexible fixation solutions



2 Shielding Materials



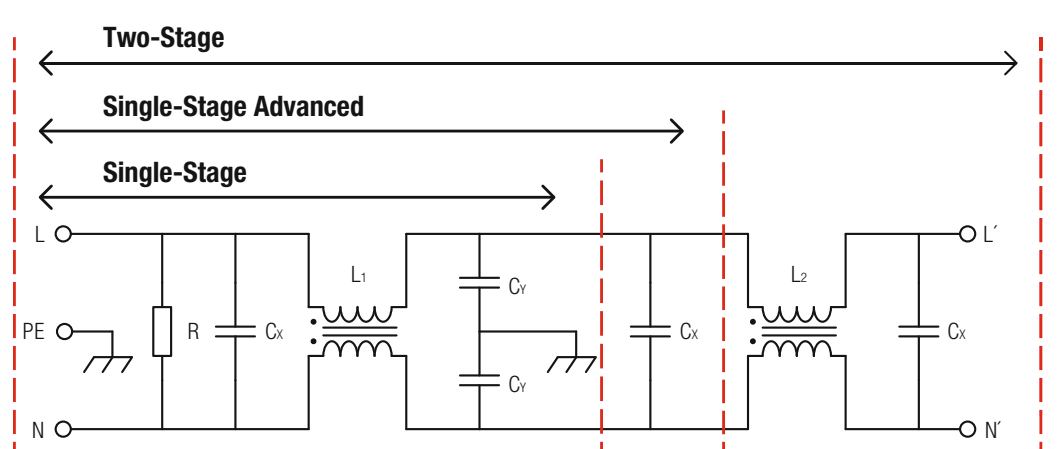
- = EMC Accessories
- = EMC Gaskets
- = Board Level Shielding
- = EMI Shielding Material

WE fit your shield

PROTOTYPING SERVICE | CUSTOMIZATION | APPLICATION ADVISING | FAST SAMPLING

3 Line Filters

Three Solutions Ready to Use

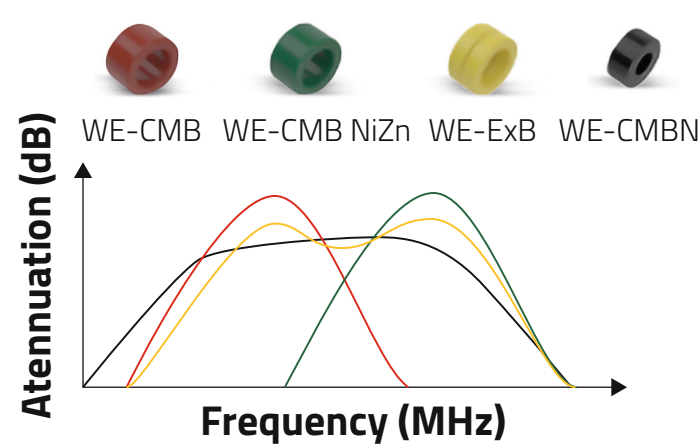
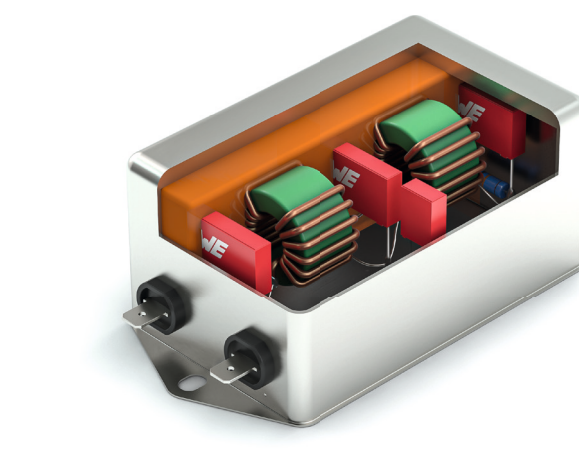


Build up your own filter
with different suppression ranges



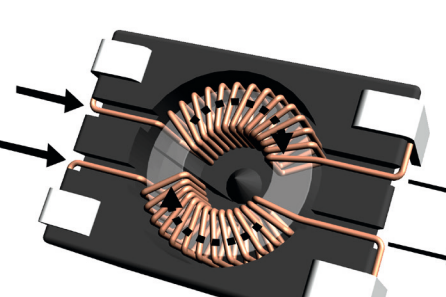
www.we-online.com/designkit-744998

Check the complete series:
www.we-online.com/we-clfs

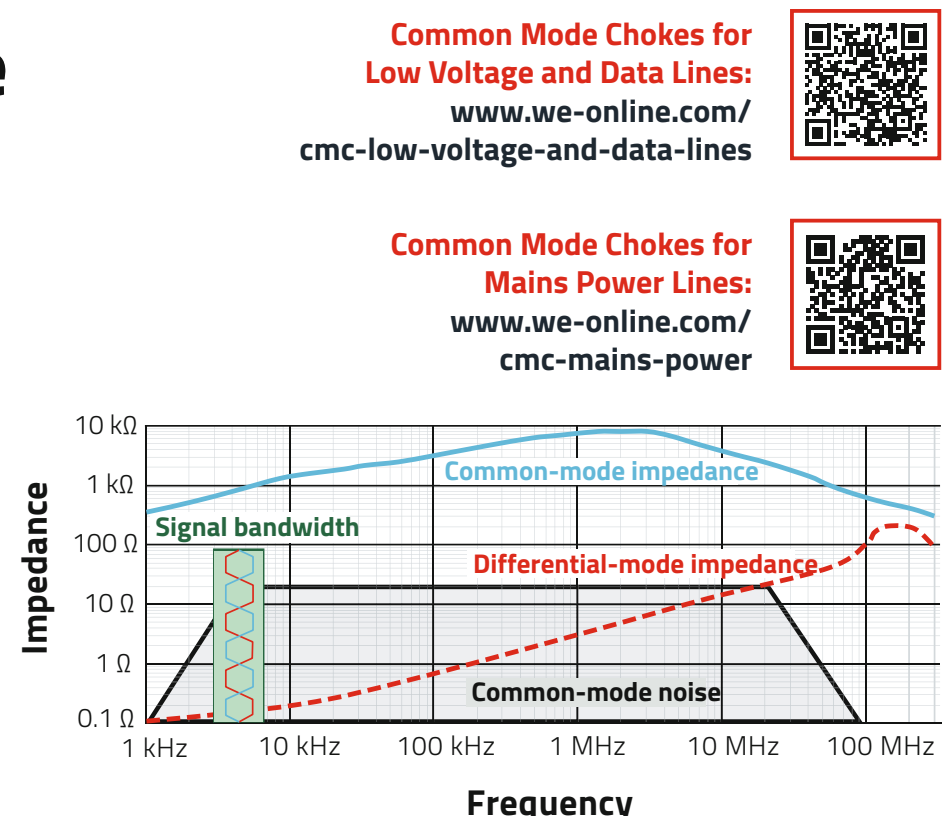
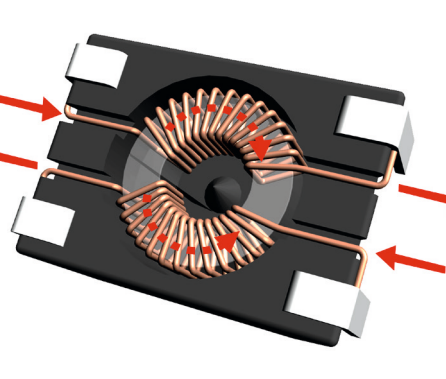


4 Common Mode Choke

Common Mode Behaviour



Differential Mode Behaviour



Common Mode Chokes for
Low Voltage and Data Lines:
www.we-online.com/cmc-low-voltage-and-data-lines



Common Mode Chokes for
Mains Power Lines:
www.we-online.com/cmc-mains-power

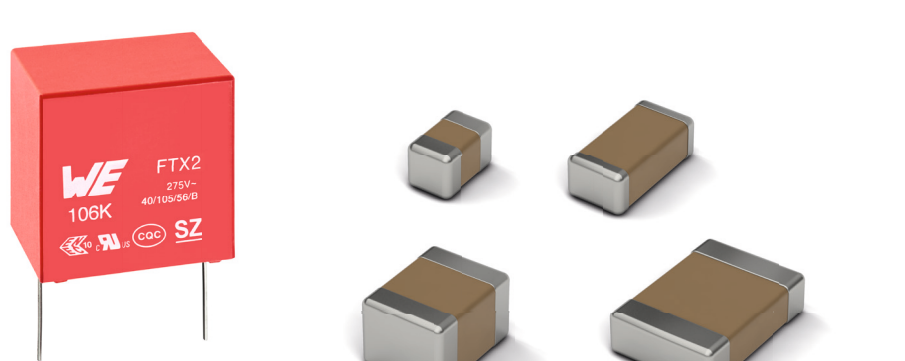


5 Safety Capacitors

Classification according to IEC 60384-14: 2013

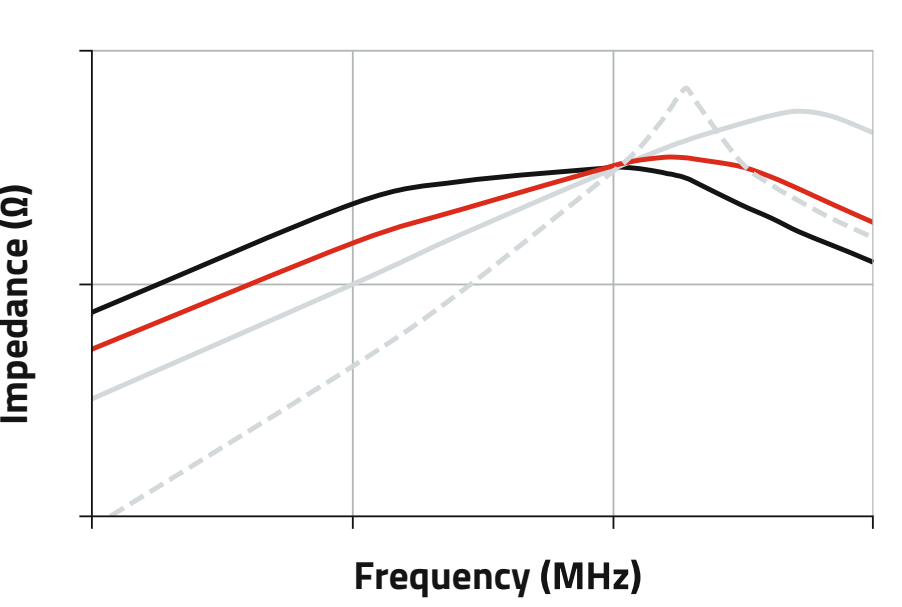
Safety Class	Peak impulse voltage in use	Application	Peak impulse voltage applied before endurance test
X1	> 25 kV	UP=4 kV	$U_1 = \frac{4 \text{ kV}}{\sqrt{\frac{C_1}{10^{-6} \text{ F}}}}$
X2	≤ 25 kV	UP=2.5 kV	$U_2 = \frac{2.5 \text{ kV}}{\sqrt{\frac{C_2}{10^{-6} \text{ F}}}}$

Interference Suppression Capacitors:
www.we-online.com/safetycapacitors

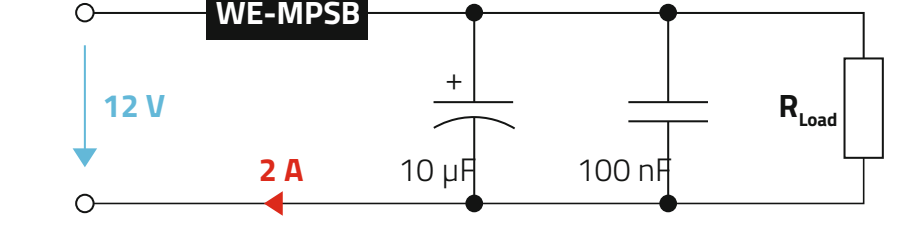
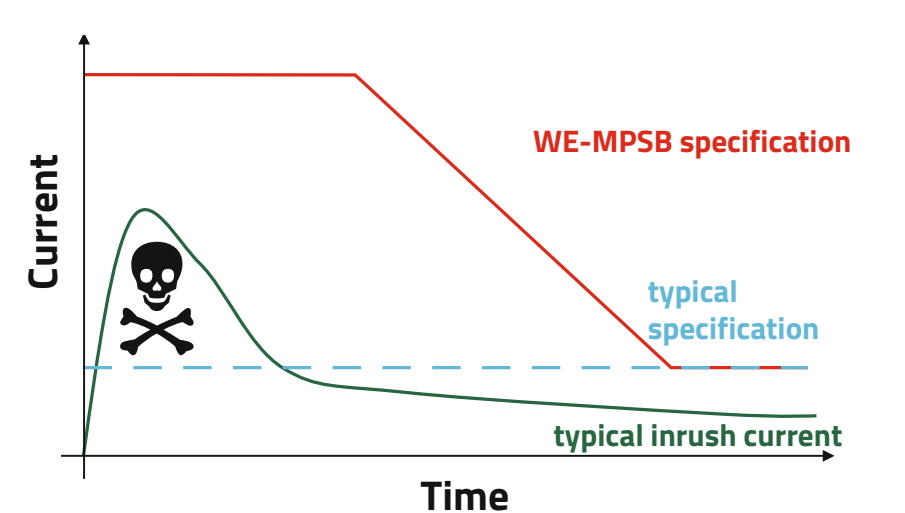


6 PCB Ferrites

Impedance Behavior of PCB Ferrites Types:



Max. Pulse Current of the WE-MPSB Series:



More PCB ferrites:
www.we-online.com/pcb-ferrites

