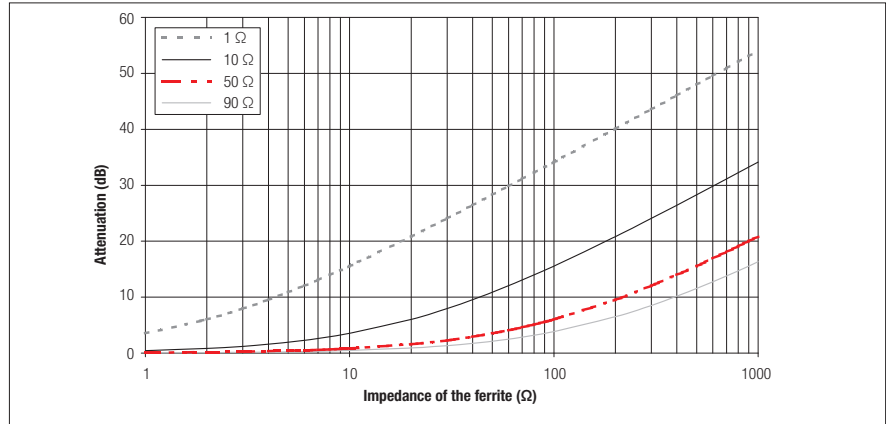
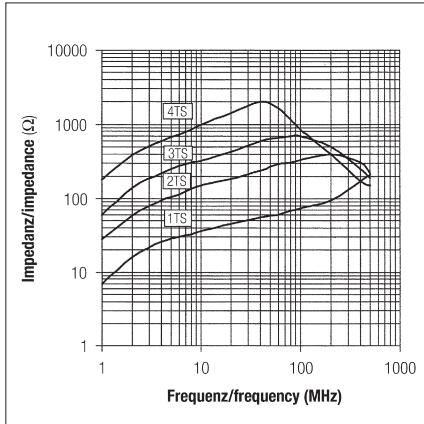
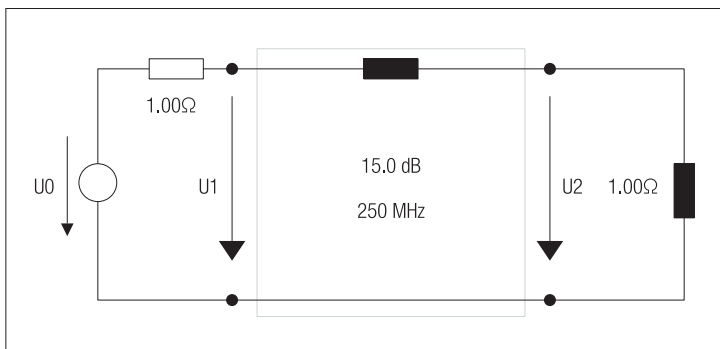


Impedance vs. Frequency Cable Ferrites



See all ferrites with different turns
Go to REDEXPERT:
www.we-online.com/redexpert-different-turns

Impedance determination in REDEXPERT



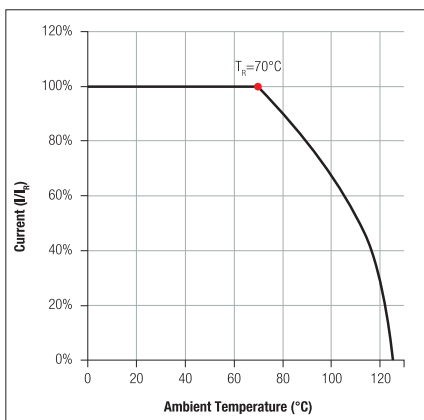
Relationship between the number of winding turns and the impedance across the frequency spectrum

$$A \text{ (dB)} = 20 \log_{10} \frac{Z_A + Z_F + Z_B}{Z_A + Z_B}$$



Determine the needed impedance in REDEXPERT
www.we-online.com/re-impedance

Derating Curve – Interpretation



Rated Current	① 70°C	i _R	0,9	A	max.
Operating Temperature	-40 °C up to +125 °C				
Temperature Rise < 55K					

$\Delta T = T_{\text{max}} - T_R$
 Max. temperature allowed T_{max}

Example of use: The maximum ambient temperature with maximum current capabilities is 70 °C over this temperature the current capabilities sink. For an ambient temperature of 90 °C the current should not be over 80% of I_R (0,9 Amps).



Derating curves for CMC in REDEXPERT:
www.we-online.com/redexpert-derating-curves-cmc