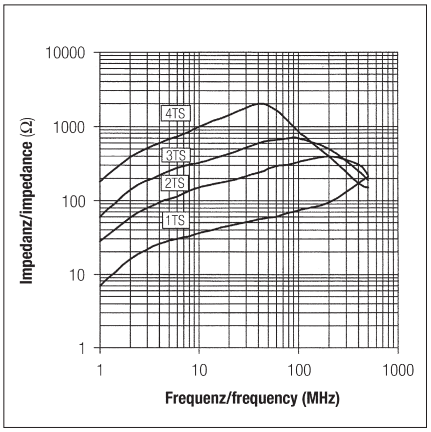
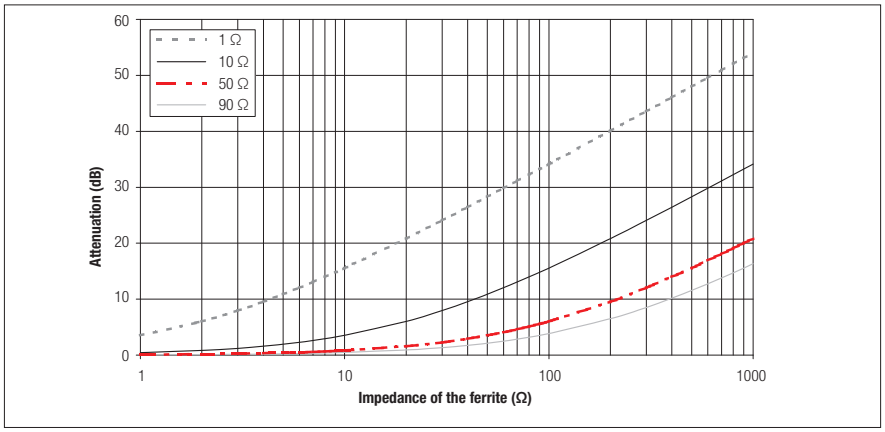
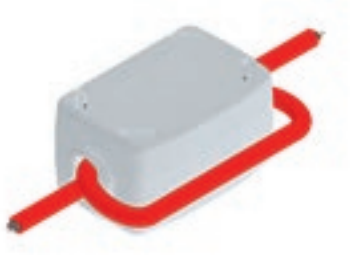
Impedance vs. Frequency Cable Ferrites

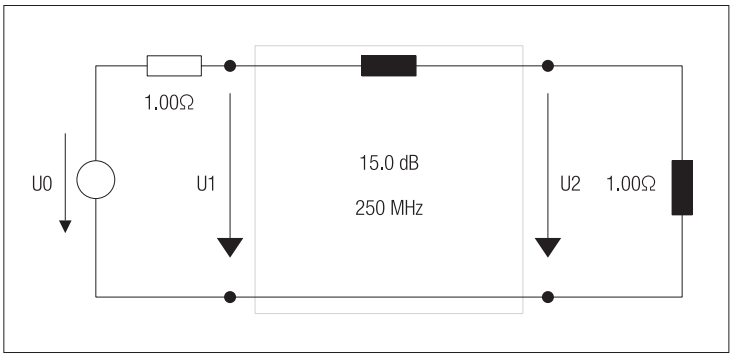






See all ferrites with different turns
Go to REDEXPERT:
www.we-online.com/redexpert-different-turns

Impedance determination in REDEXPERT

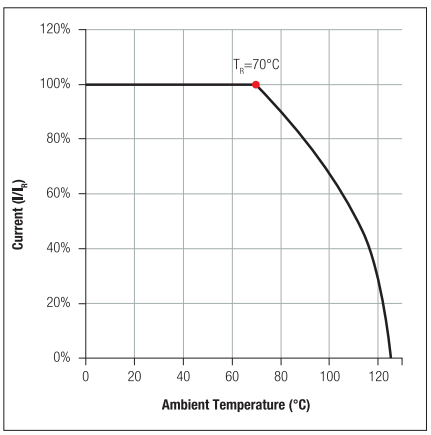


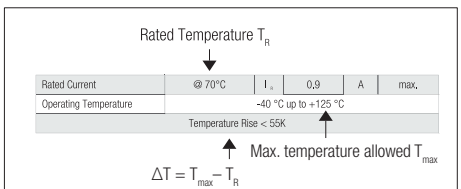
Relationship between the number of winding turns and the impedance across the frequency spectrum

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

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

Derating Curve – Interpretation





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 40% of IR (0,9 Amps).

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