



Technical Information

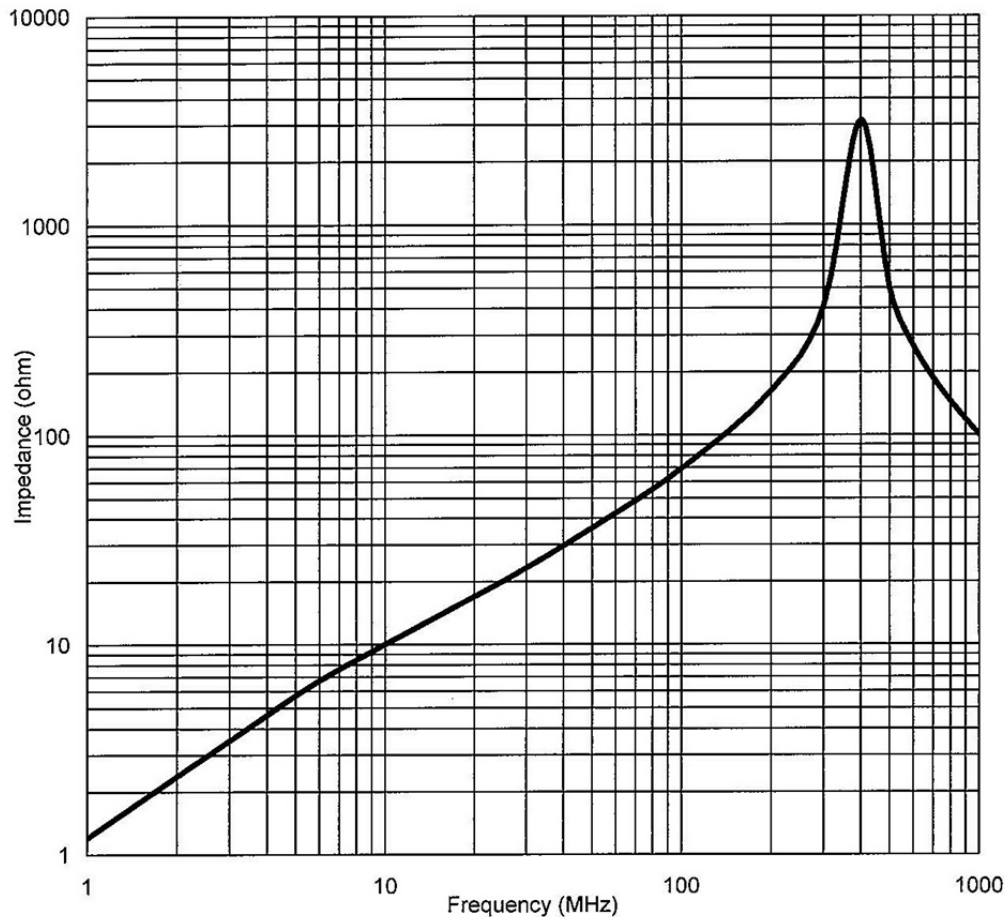
Ferrite filters provide an easy and efficient way of reducing both radiated and conducted interference. Kycon uses a medium permeability nickel zinc ferrite material that is most effective attenuating frequencies above 30MHz.

$$Attenuation = 20 \log_{10} \frac{[Z_S + Z_F + Z_L]}{[Z_S + Z_L]} dB$$

Where: Z_S = Source Impedance
 Z_F = Ferrite Impedance
 Z_L = Load Impedance

With the above impedance values calculated at the interference frequency.

Typical Impedance of Kycon Ferrite D-Sub 1.2mm Plate Test Data



The above chart is typical performance for a 1.2mm thick ferrite plate at room temperature. Impedance will be reduced by increased temperature (down approximately 15% at 100°C at 25MHz) and by increased DC bias (down approximately 15% at 1 amp at 25MHz). Also impedance varies with ferrite thickness. Please contact our technical support for data specific to your application.