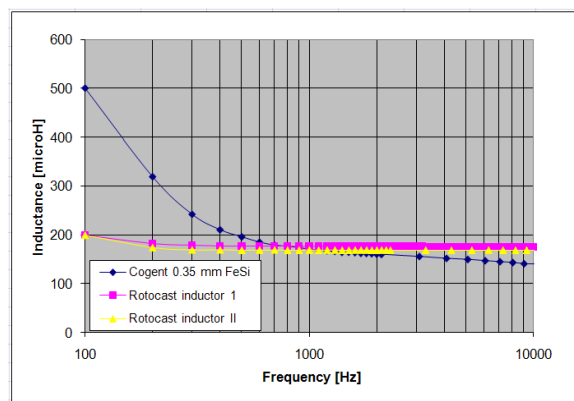


Sizing

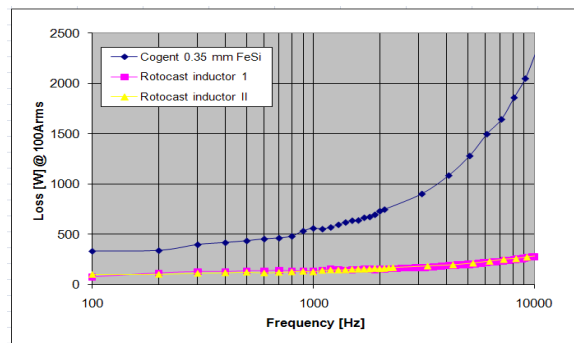
To select inductors, constructed in the traditional manner, for high frequencies, you need to over-size considerably. For example, an inductor with an iron-silicon sheet package that shall handle 200 μH at 500 Hz, will take an inductor of 600 μH to manage. A factor of three!

When dimensioning MagChoke™ virtually no higher margins at high frequencies than those of 50Hz is required. See chart below.

Price wise, the differences become very large. Differences to the extent that price plus size means that one rarely use metal packages at higher frequencies, but moves to ferrites or SMCs instead. And at mixed frequencies are SM²C® materials unbeatable.



The frequency-dependent losses differ between manufacturing methods accordingly.



These differences in properties leads, of course, to the fact that a MagChoke™ becomes considerably smaller in size at high frequencies, than traditional manufacturing methods can handle.