**How calculate transformer over Amidon toroids**

Example of an impedance adaption from 330 Ohms to 500 Ohms at an IF Freq. of 10.7 MHz.

1. Calculate the input inductance from the input impedance at a given Freq.

Z 330 Ohm @ 10.7MHz -> 4.92 uH

Quelle:<http://www.learningaboutelectronics.com/Articles/Inductor-impedance-calculator.php#answer>

1. Calculate the primary turns over an Amidon from known primary inductance

4.92 uH -> 30 turns over a T-30-2 (Red) Amidon Toroid

Quelle1: <http://www.66pacific.com/calculators/toroid-coil-winding-calculator.aspx>

Quelle2: 34 turns with Miniring Core Calculator



1. Calculate the secondary turns from a known secondary impedance (Z sec), primary impedance (Zpri) & primary turns

Zpri 330 Ohm, Zsec 500 Ohm, 30 (-34) turns on primary ->

 Turns ratio 1: 1.231, turns secondary 37 (-42)

Qulle1: <http://www.maxmcarter.com/classecalcs/tratiocalc.html>

Quelle 2: 42 turns with Miniring Core Calculator

