

Device Modeling Report

COMPONENTS : CHOKE COIL
PART NUMBER : 8RHB
VALUE : 470 μ H
CURRENT MAX : 0.36 A
MANUFACTURER : TOKO



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

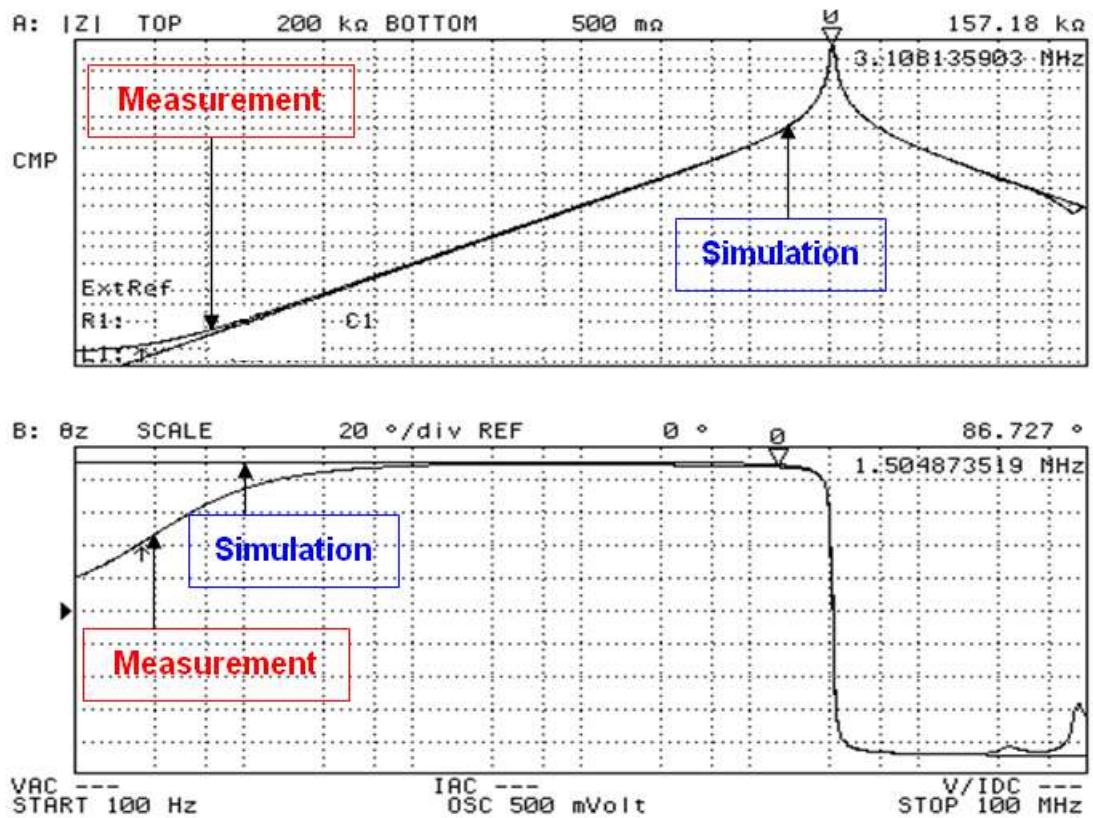
Optimization of Simulation

Range of adjustment Frequency: 100 to 100M(Hz)

Frequency vs. $|Z|$ and Frequency vs. θz Characteristic

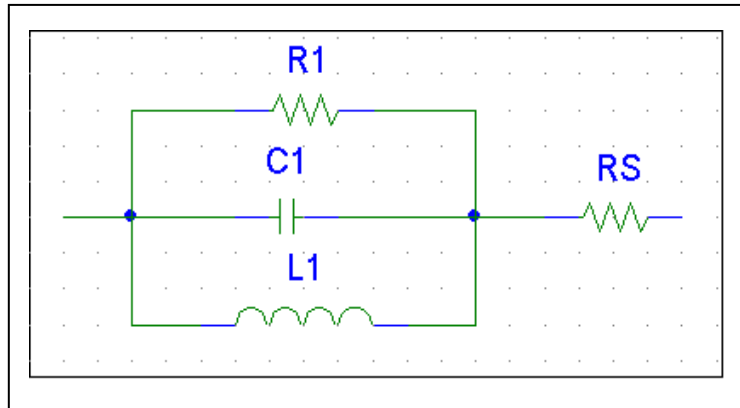
Attention)

Please use SPICE MODEL within the range from 100 to 100M(Hz)



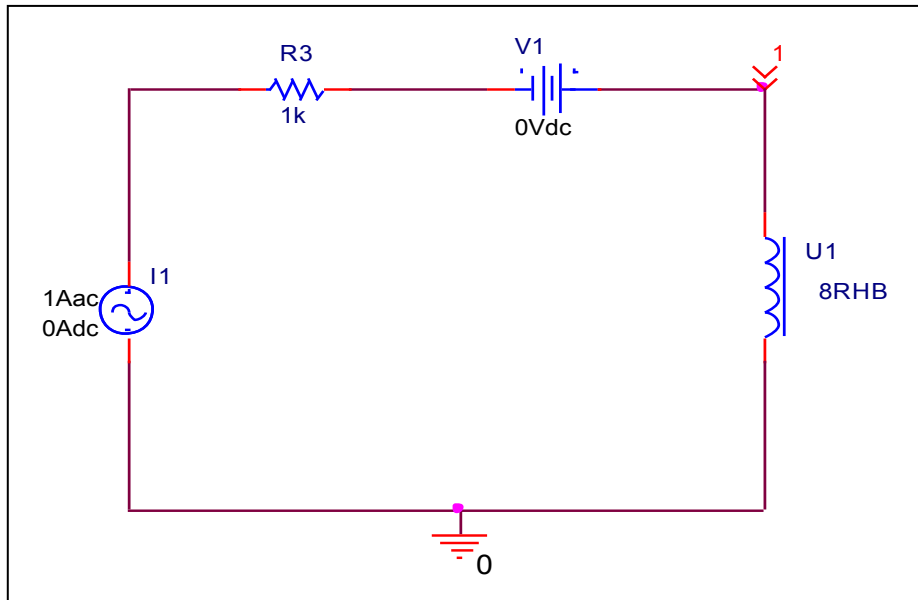
L1	
C1	
R1	

Equivalent circuit

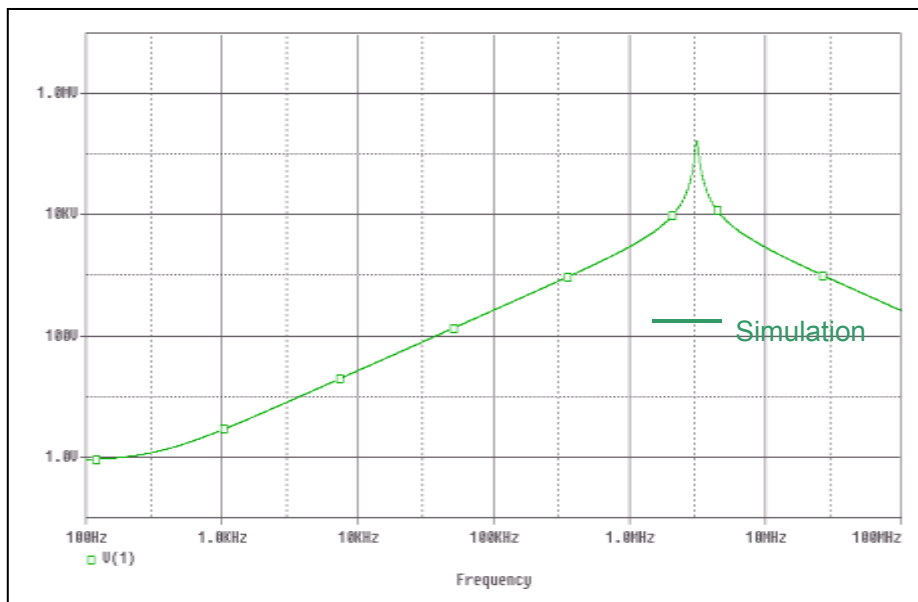


Frequency vs. |Z| Characteristic

Evaluation circuit



Simulation result



Comparison Table

Frequency (Hz)	Z (ohm) : Measurement	Z (ohm) : Simulation	% Error
100	912.273 m	902.509 m	1.070
1M	2.98406 k	2.9589 k	0.843
10M	2.89351 k	2.8916 k	0.066
100M	257.249	261.082	-1.490

	Measurement	Simulation	% Error
F_{SRF} (Hz)	3.162 M	3.1606 M	0.044
 Z (ohm), at F_{SRF}	166.192 k	164.539 k	0.995