

Device Modeling Report

COMPONENTS : CHOKE COIL
PART NUMBER : 8RHB
VALUE : 100 uH
CURRENT MAX : 1 A
MANUFACTURER : TOKO



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

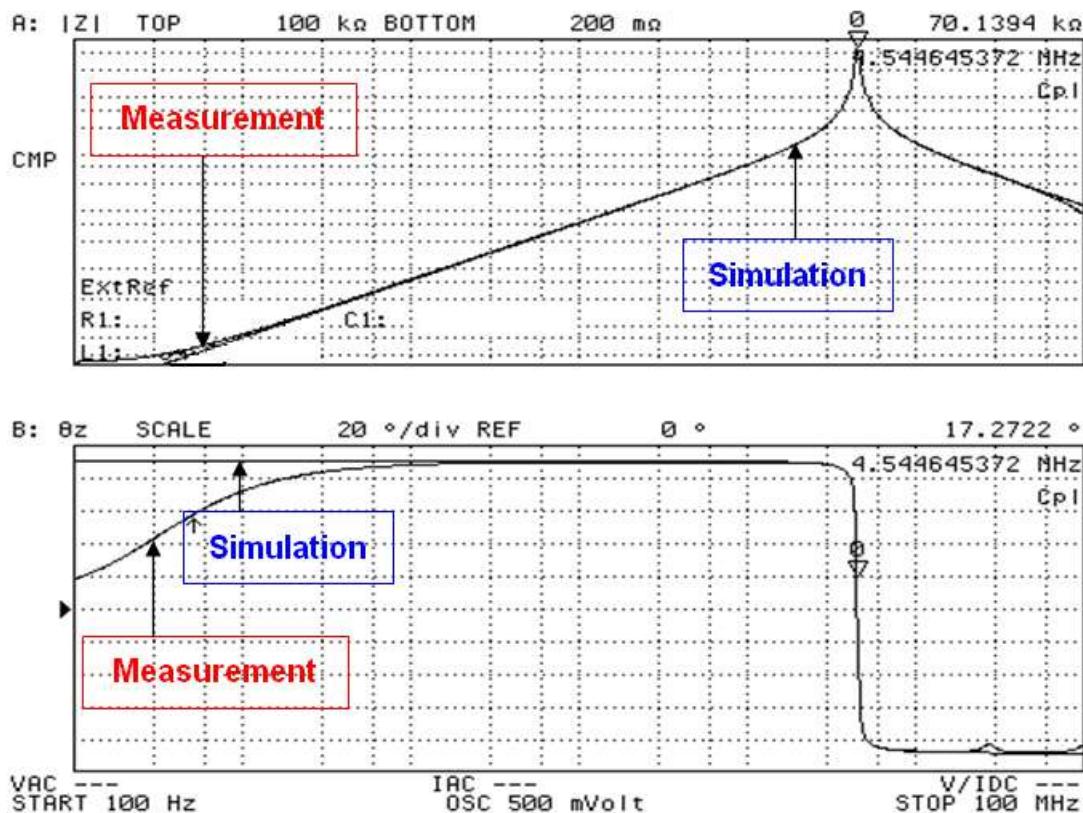
Optimization of Simulation

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

Frequency vs.|Z| and Frequency vs. θ_z Characteristic

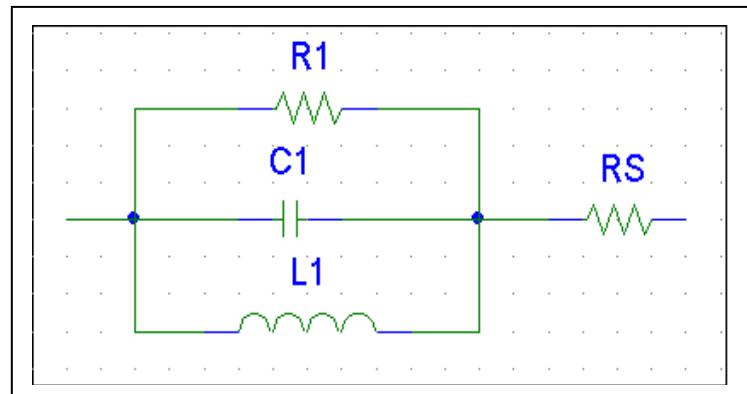
Attention)

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



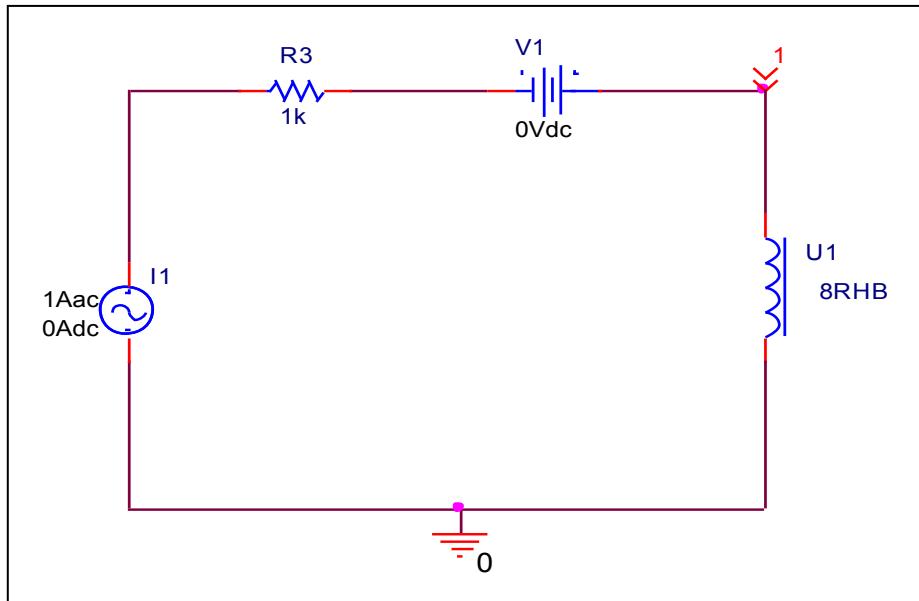
L1	
C1	
R1	

Equivalent circuit

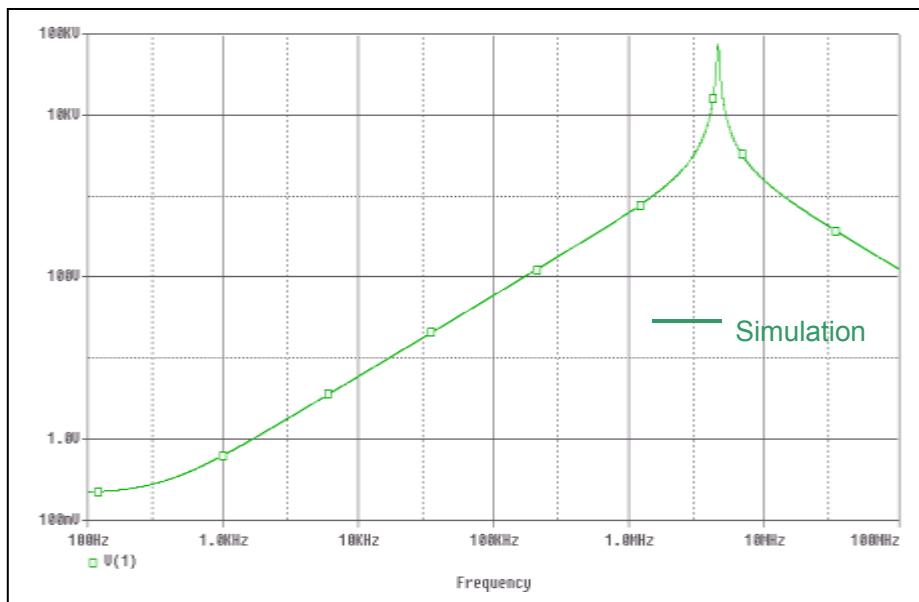


Frequency vs. |Z| Characteristic

Evaluation circuit



Simulation result



Comparison Table

Frequency (Hz)	 Z (ohm) : Measurement	 Z (ohm) : Simulation	% Error
100	222.251 m	222.338 m	-0.039
10K	6.23879	5.9538	4.568
100K	61.2142	59.186	3.313
1M	625.596	624.873	0.116
10M	1.56849 k	1.5711 k	-0.166

	Measurement	Simulation	% Error
F_{SRF}(Hz)	4.545 M	4.575 M	-0.660
Z (ohm), at F_{SRF}	70.139 k	73.488 k	-4.775