

Device Modeling Report

COMPONENTS: CHOKE COIL
PART NUMBER: 228-501
MANUFACTURER:
WURTH ELEKTRONIK GmbH & CO.KG



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

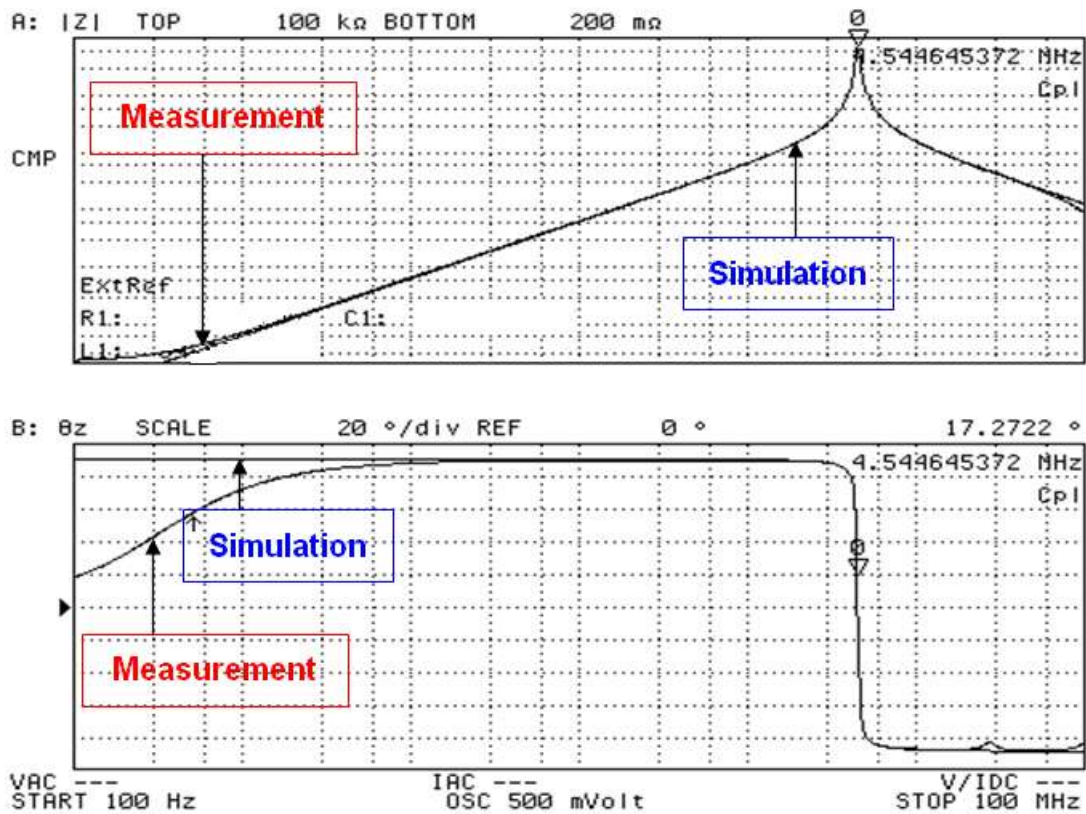
Optimization of Simulation

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

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

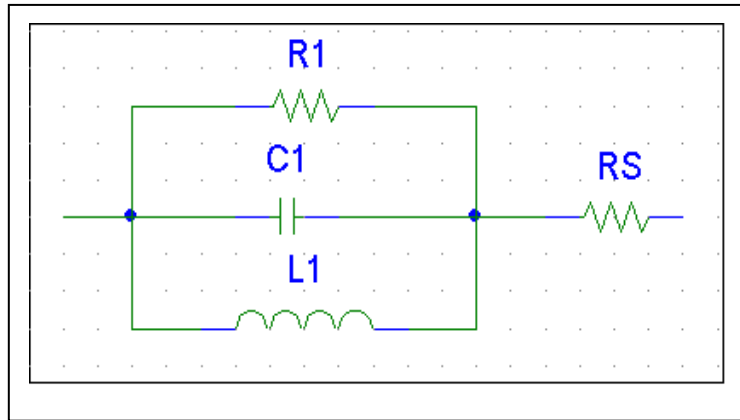
Attention)

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



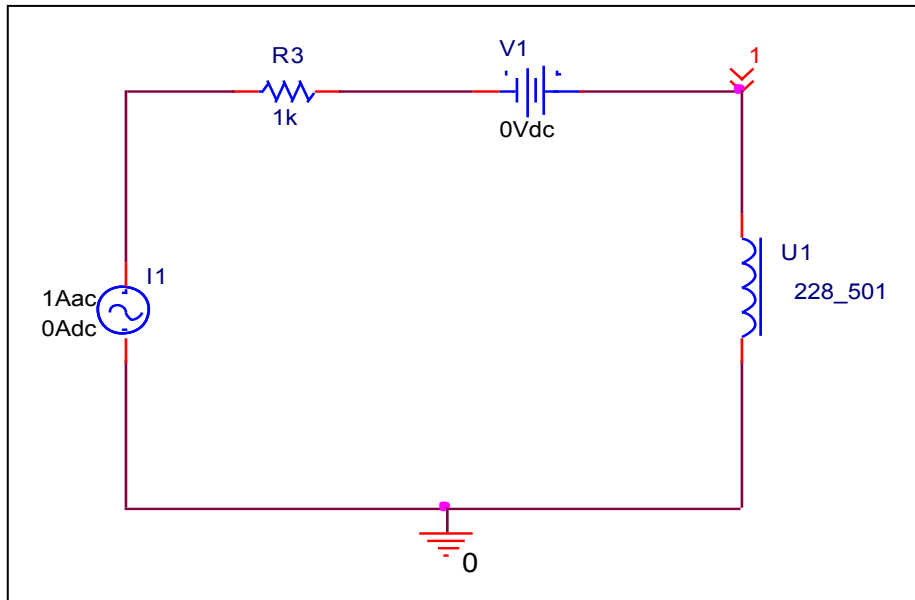
L1	
C1	
R1	

Equivalent circuit

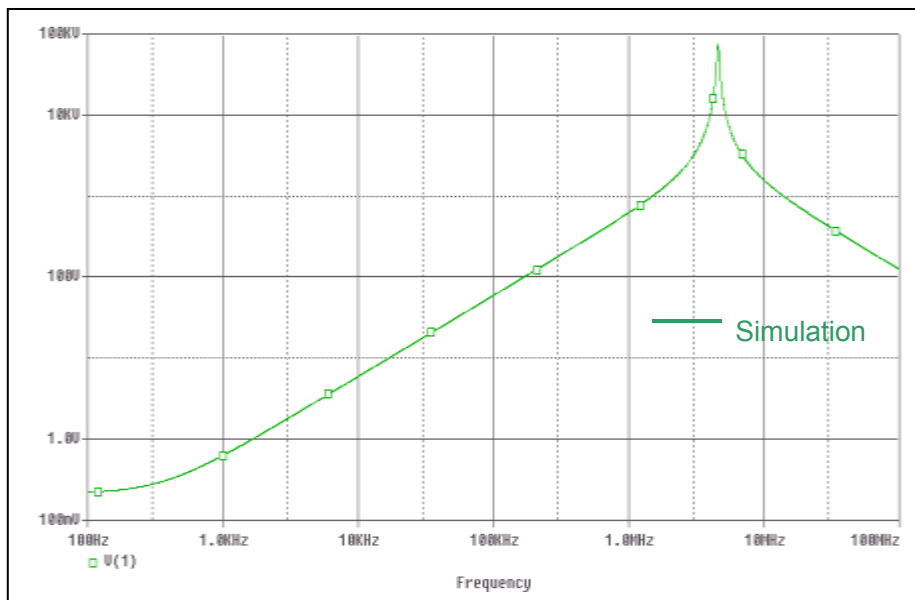


Frequency vs. |Z| Characteristic

Evaluation circuit



Simulation result



Comparison Table

Frequency (Hz)	Z (ohm) : Measurement	Z (ohm) : Simulation	% Error
100	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