Device Modeling Report

COMPONENTS: CHOKE COIL
PART NUMBER: 228-539
MANUFACTURER:
WURTH ELEKTRONIK GmbH & CO.KG

Bee Technologies Inc.

Theory: Auto Balancing Bridge Method
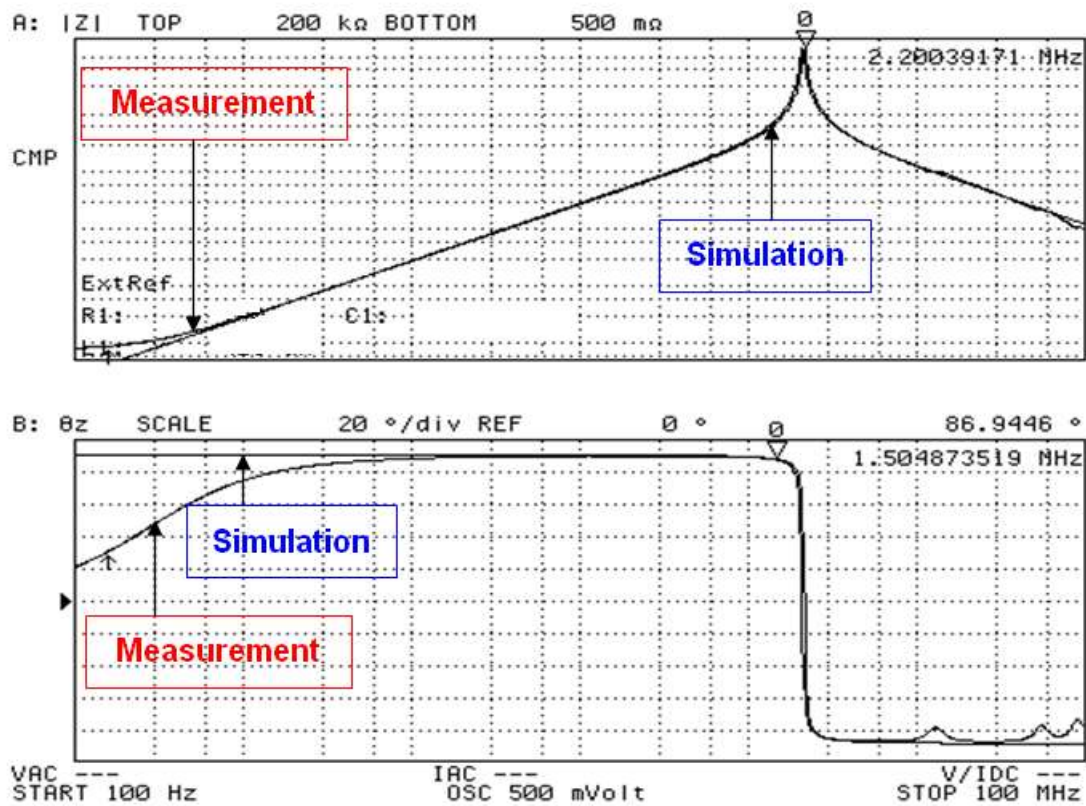
Optimization of Simulation

Range of adjustment Frequency:100 to100M(Hz)

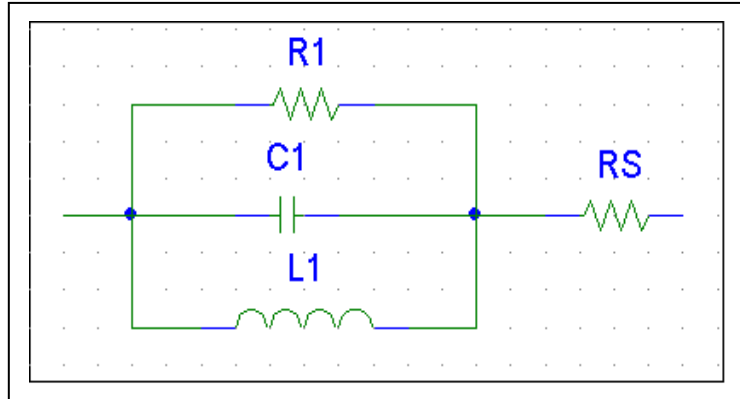Frequency vs.|Z| and Frequency vs. θ z Characteristic

Attention)

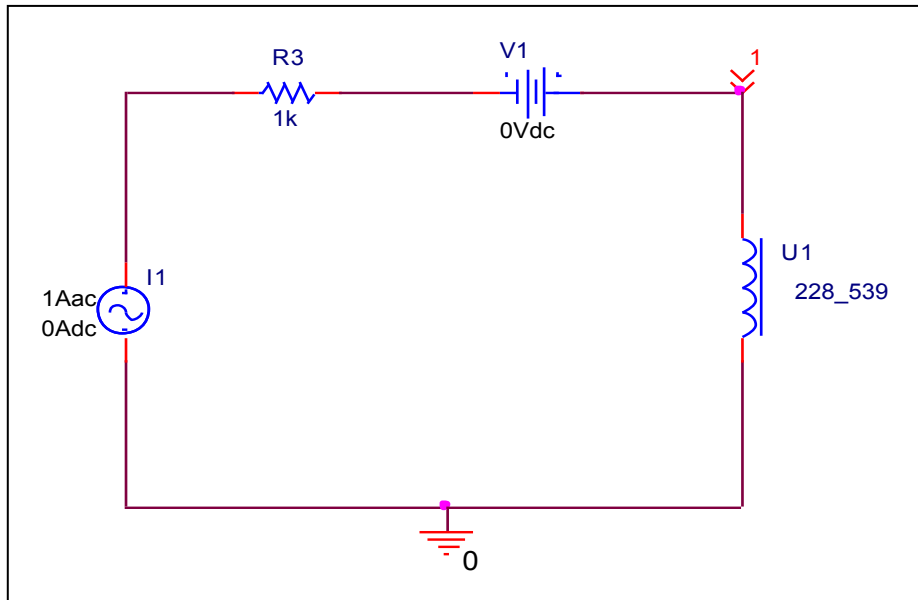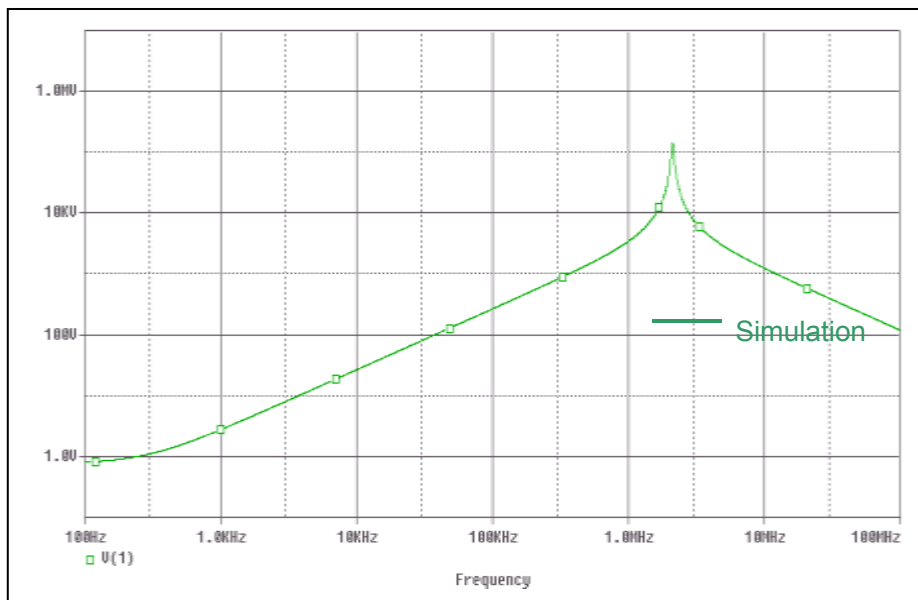*Please use SPICE MODEL within the range from 100 to 100M(Hz)*

L1	
C1	
R1	

Equivalent circuit

Frequency vs. |Z| Characteristic

Evaluation circuit

Simulation resuit

Frequency (Hz)	|Z|(ohm) : Measurement	|Z|(ohm) : Simulation	% Error
100	802.085 m	804.913 m	-0.353
1K	2.78297	2.7643	0.671
10K	26.1401	26.590	-1.721
100K	255.495	266.379	-4.260
10M	1.19374 k	1.2393 k	-3.817

	Measurement	Simulation	% Error
F_{SRF} **(Hz)**	2.20 M	2.1115 M	4.023
|Z| (ohm), at F_{SRF}	138.161 k	139.980 k	-1.317