

Device Modeling Report

COMPONENTS: CAPACITOR/Electrolytic
PART NUMBER: RJJ-35V221MG5-T20
MANUFACTURER: ELNA Co.,Ltd.



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

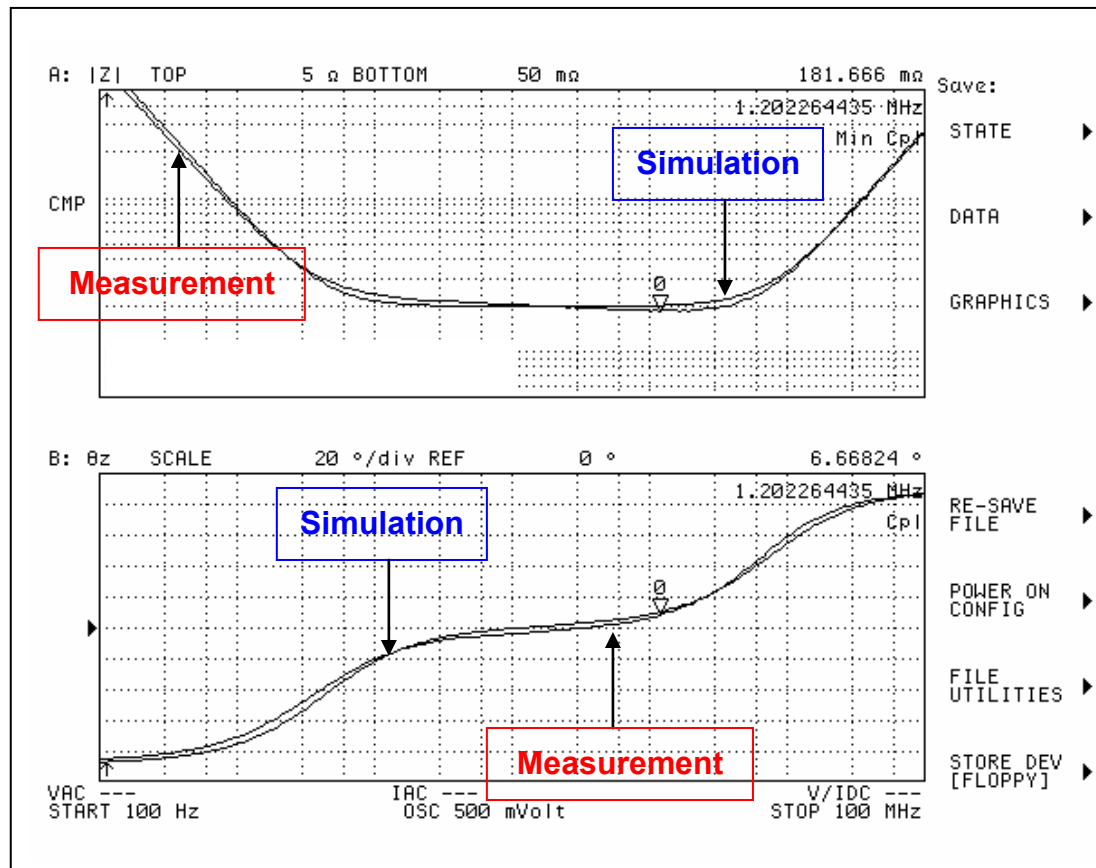
Optimization of Simulation

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

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

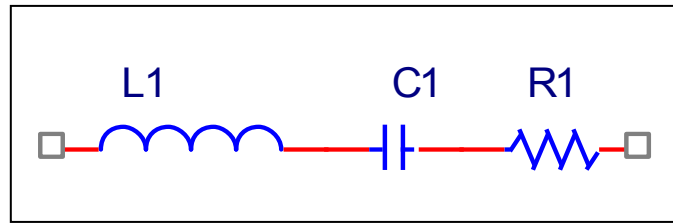
Attention)

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



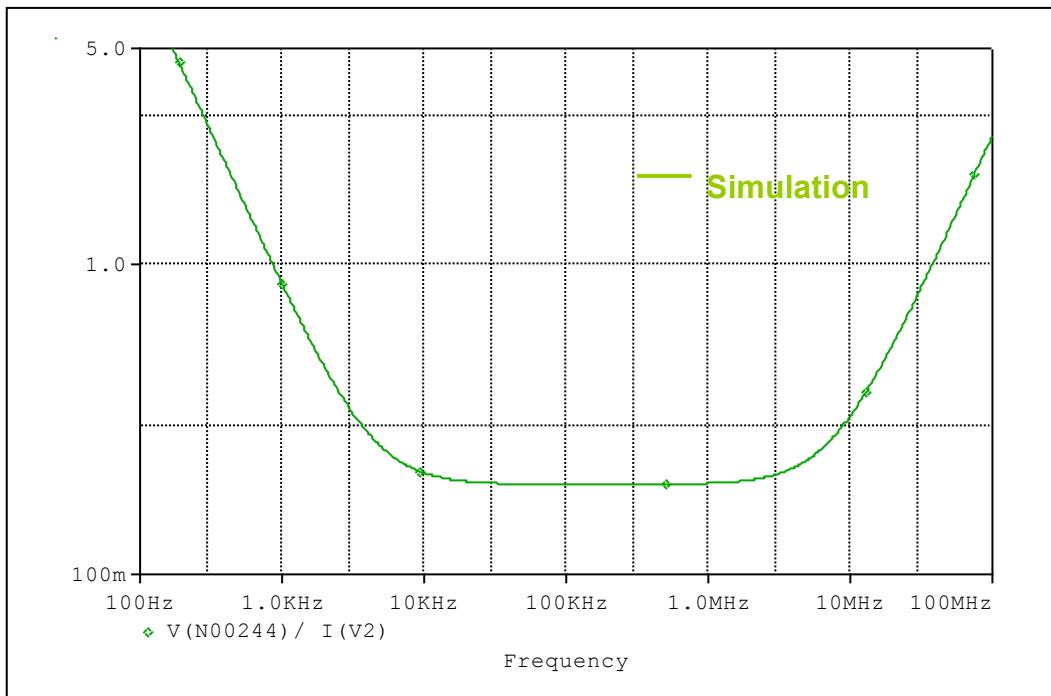
L1	
C1	
R1	

Equivalent circuit

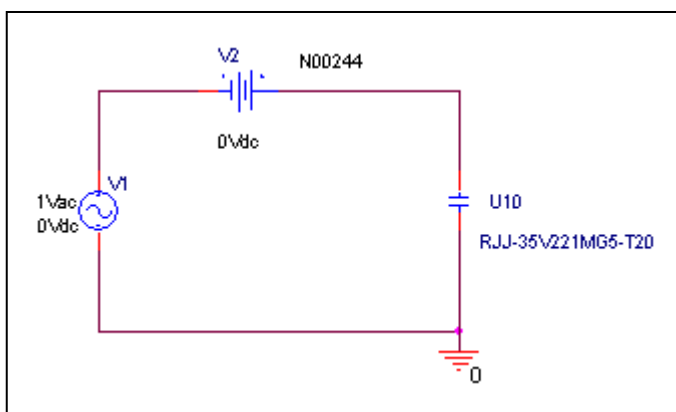


Frequency vs. |Z| Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	IZI (ohm) :Measurement	IZI (ohm) :Simulation	% Error
300	2.6912	2.8282	5.0907
1K	848.641m	867.215m	2.1887
10K	205.756m	212.566m	3.3097
100K	194.789m	195.238m	0.2305
1M	195.249m	196.774m	0.7811
10M	324.028m	326.125m	0.6472
100M	2.5973	2.6148	0.6738