

Device Modeling Report

COMPONENTS: RESISTOR
PART NUMBER: ERF10AJ361
THERMAL: TA=120(degree)
MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

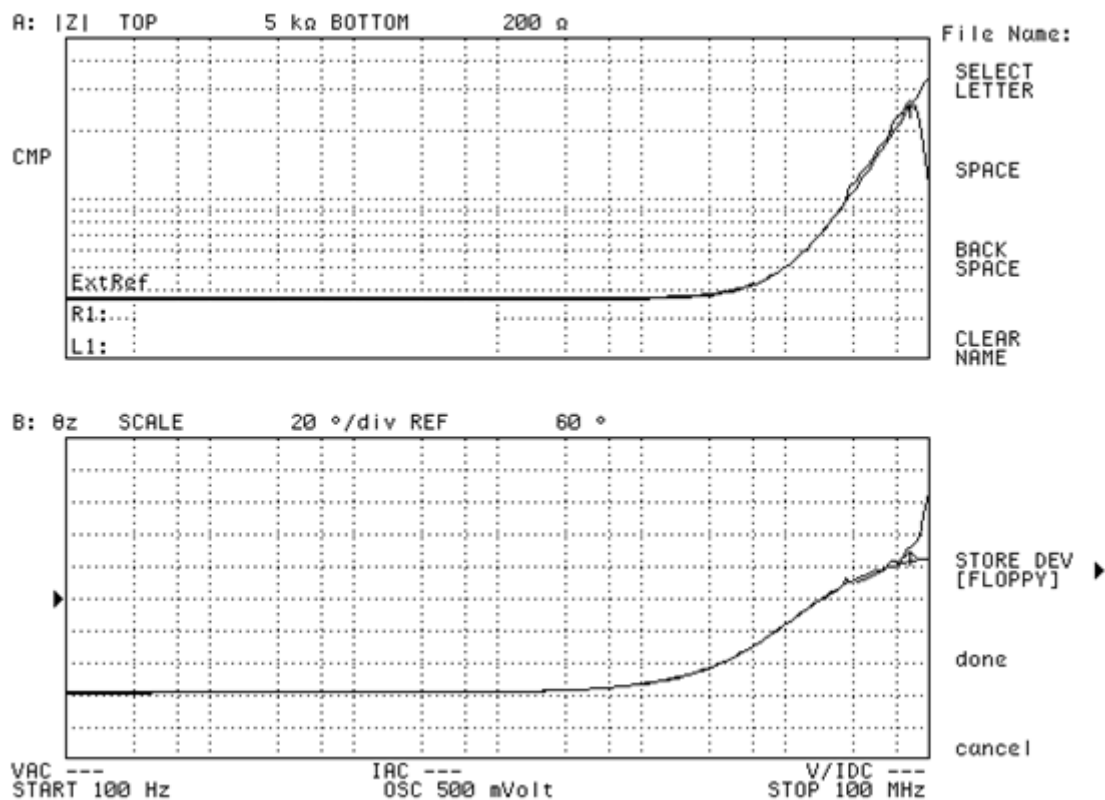
Optimization of Simulation

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

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

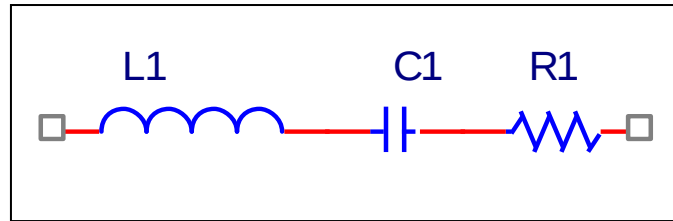
Attention

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



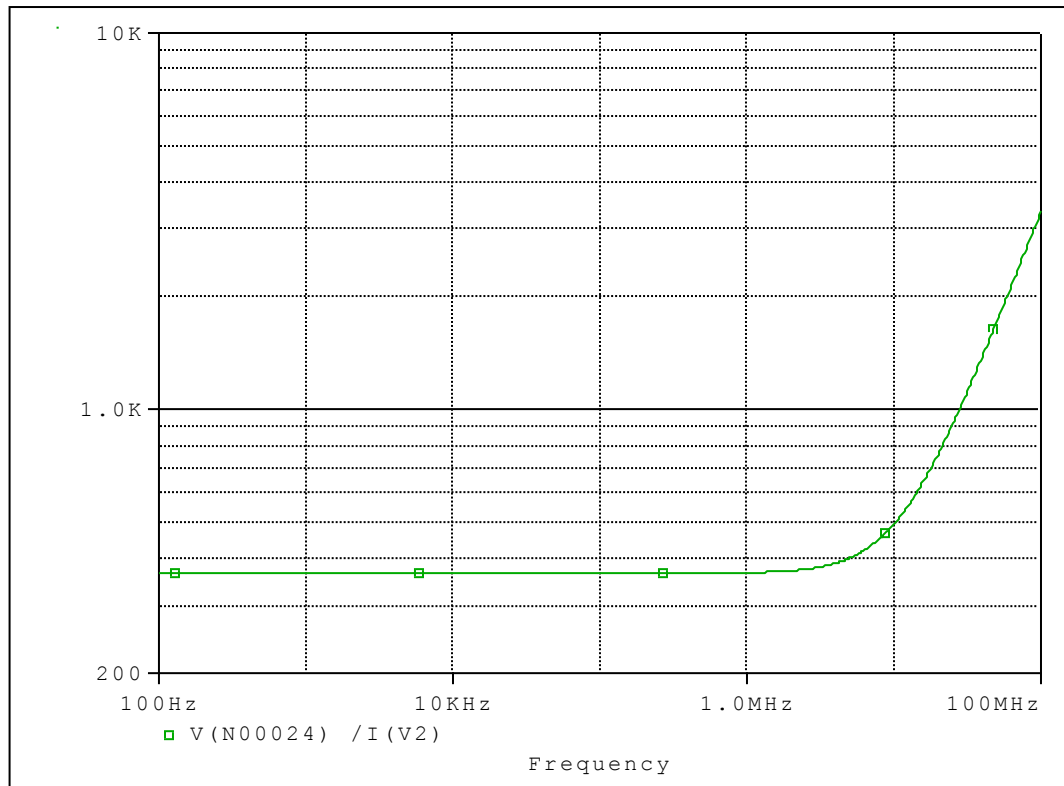
Measurement		
R1		
L1		
C1		

Equivalent circuit

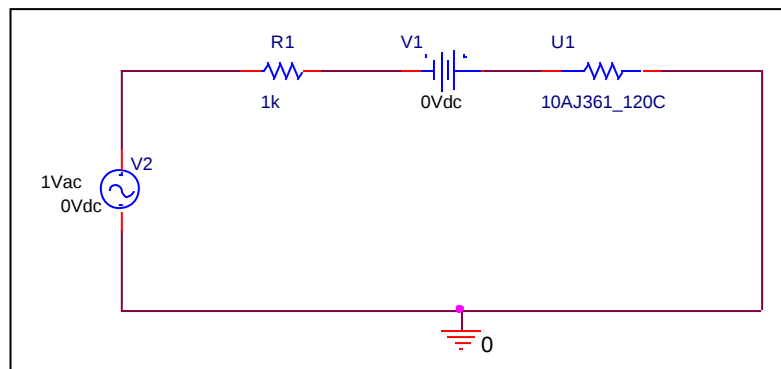


Frequency vs. $|Z|$ Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

Frequency(HZ)	 Z (ohm) Measurement	 Z (ohm) Circuit Simulation	%Error
100	361.491	368.113	1.832
1K	361.511	368.109	1.825
10K	361.430	368.109	1.848
100K	361.575	368.124	1.811
1M	363.552	369.624	1.670
10M	502.206	497.233	0.990