

Device Modeling Report

COMPONENTS: RESISTOR
PART NUMBER: ERF10AJ361
THERMAL: TA=150(degree)
MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

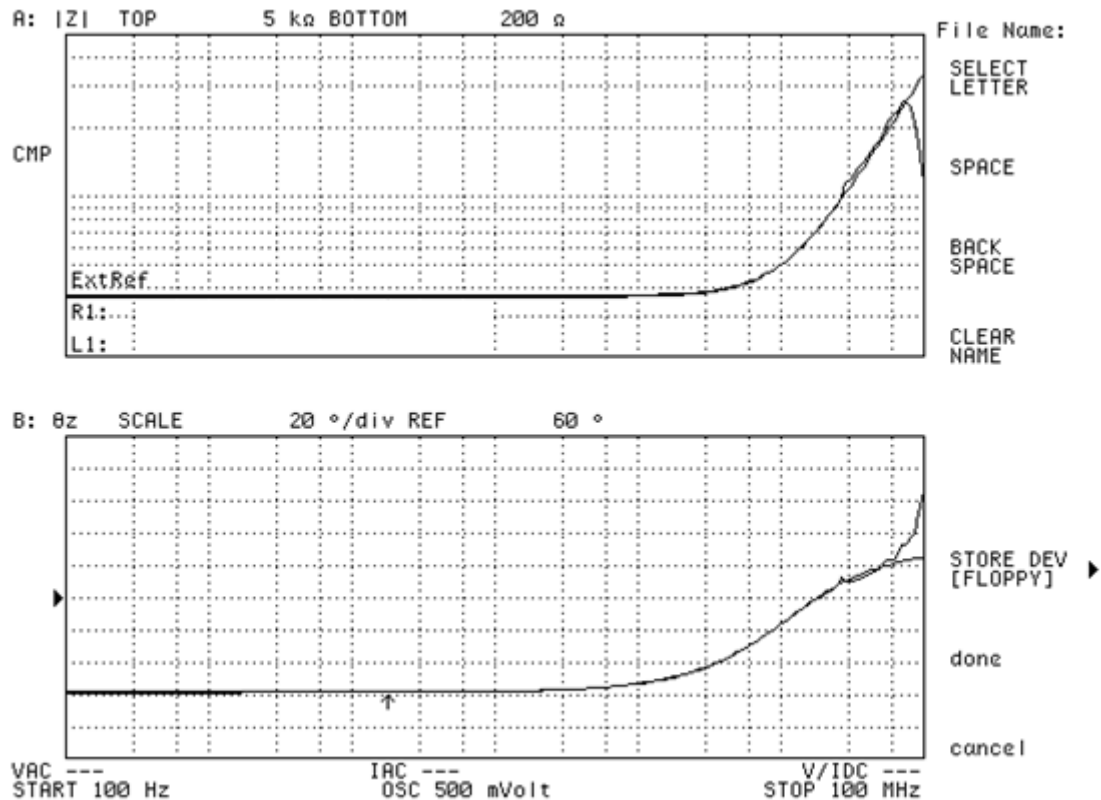
Optimization of Simulation

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

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

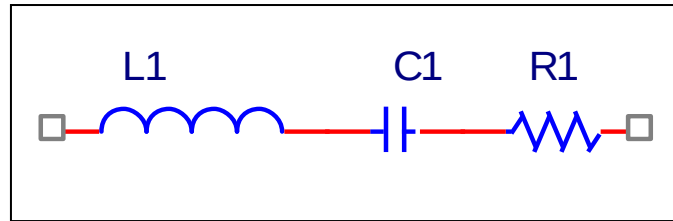
Attention

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



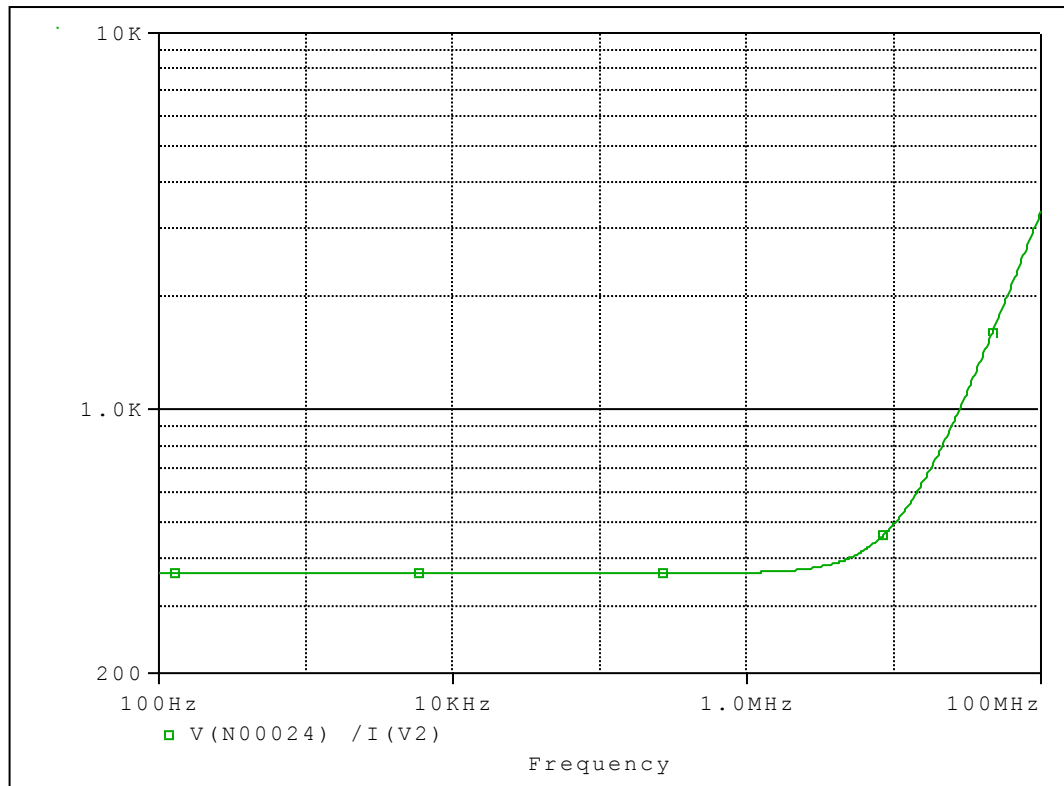
Measurement		
R1		
L1		
C1		

Equivalent circuit

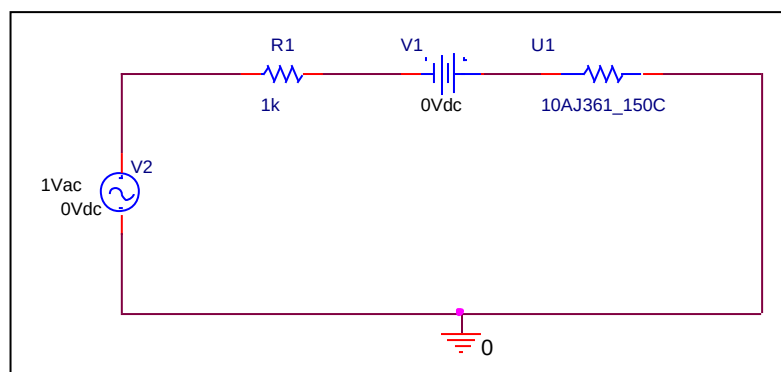


Frequency vs. |Z| Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

Frequency(HZ)	 Z (ohm) Measurement	 Z (ohm) Circuit Simulation	%Error
100	362.369	368.656	1.735
1K	362.326	368.482	1.699
10K	362.370	368.481	1.686
100K	362.334	368.496	1.701
1M	364.330	369.994	1.555
10M	502.636	497.523	1.017