

Device Modeling Report

COMPONENTS: RESISTOR
PART NUMBER: ERF10AJ560
THERMAL:TA=80(degree)
MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

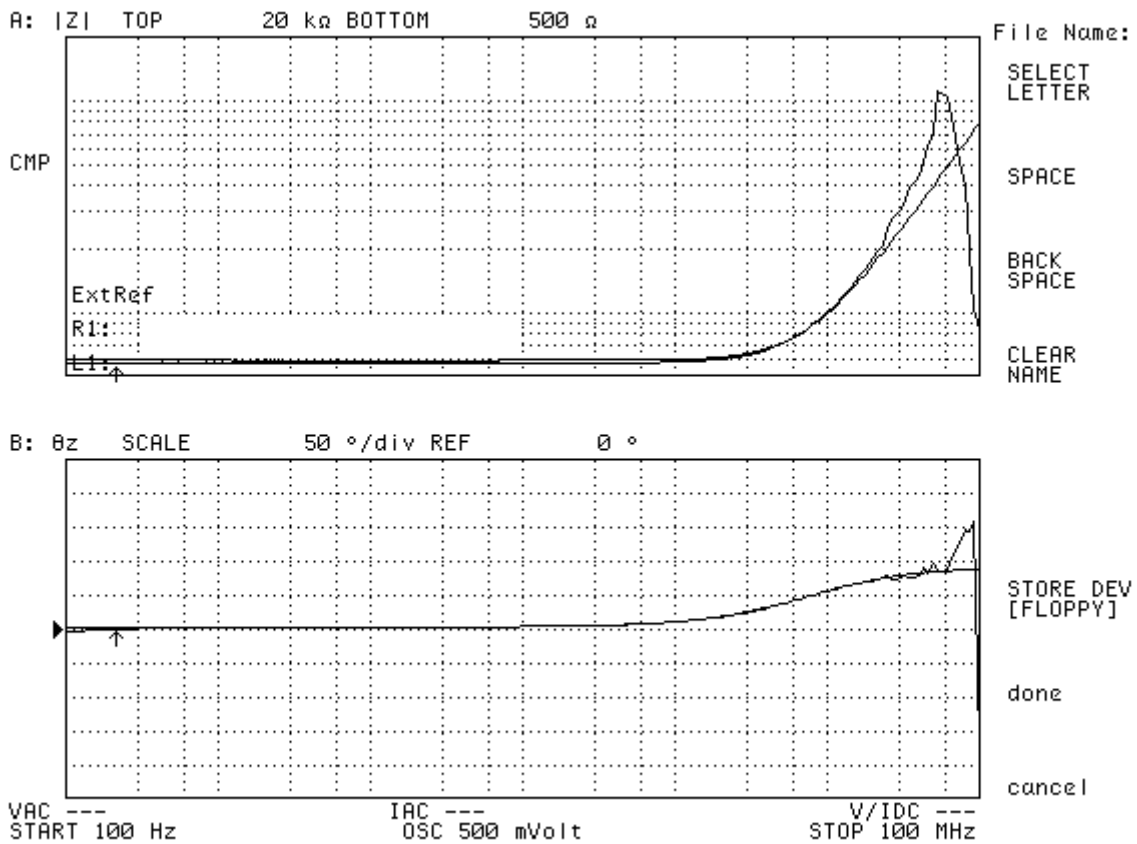
Optimization of Simulation

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

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

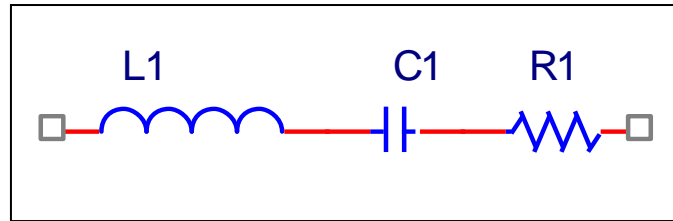
Attention

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



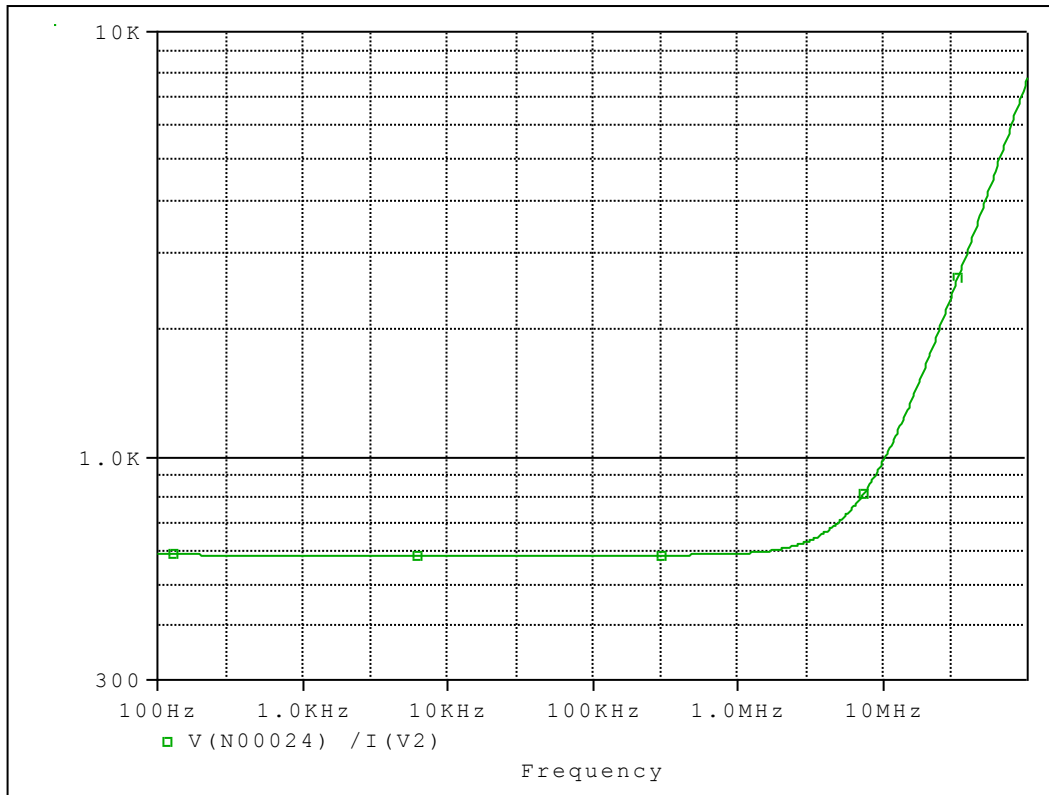
Measurement		
R1		
L1		
C1		

Equivalent circuit

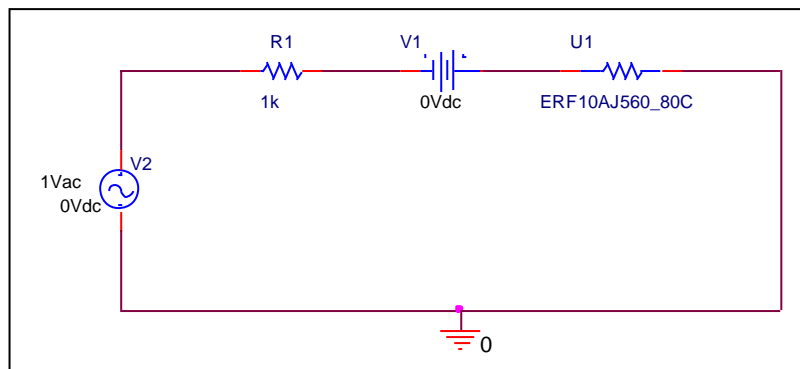


Frequency vs. |Z| Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

Frequency(HZ)	 Z (ohm) Measurement	 Z (ohm) Circuit Simulation	%Error
100	572.593	593.230	3.604
1K	572.645	588.951	2.847
10K	573.237	588.909	2.734
100K	572.588	588.959	2.859
1M	579.229	593.993	2.549
10M	1000.247	973.789	2.645