

Device Modeling Report

COMPONENTS: RESISTOR
PART NUMBER: ERF5AJ6R8
THERMAL:TA=80(degree)
MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

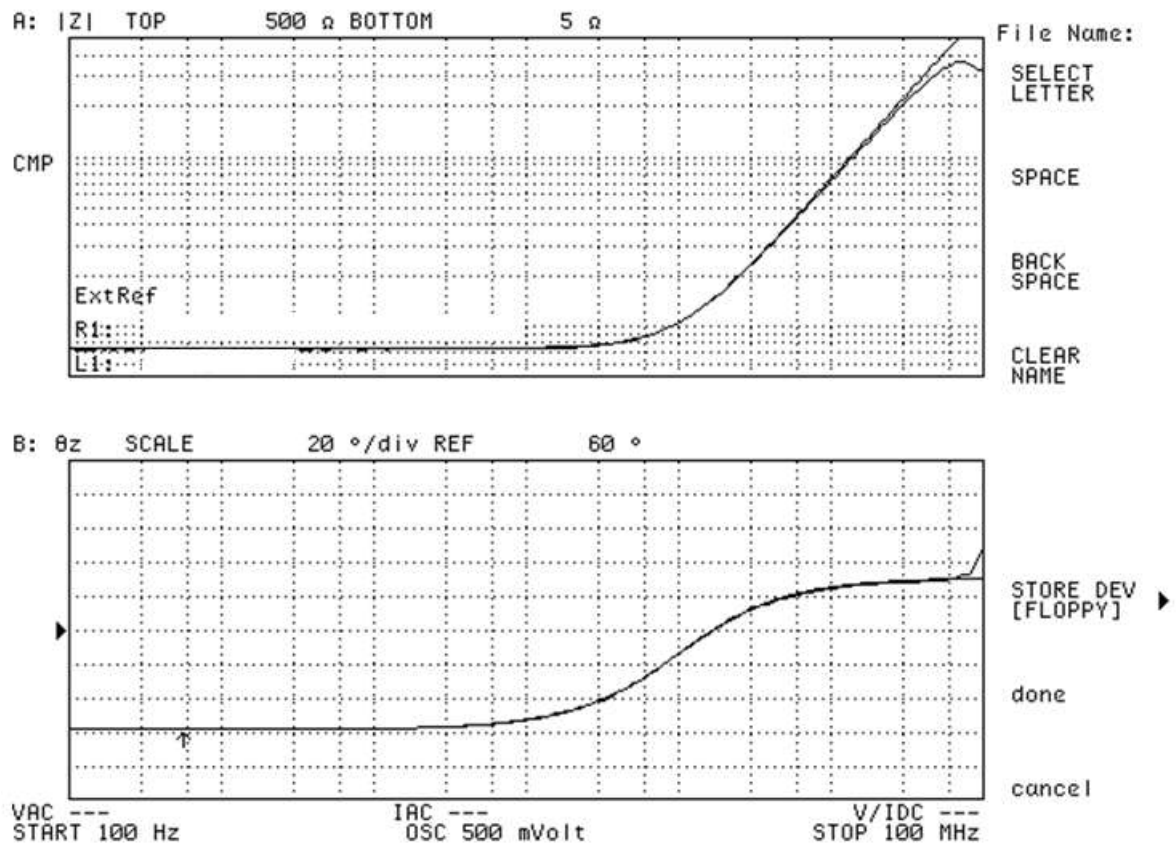
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

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

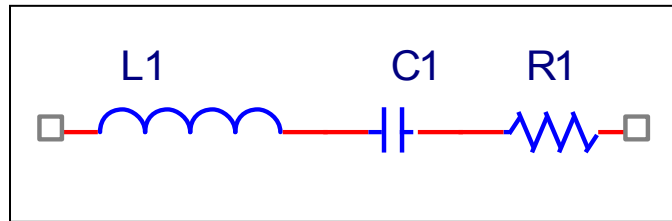
Attention



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

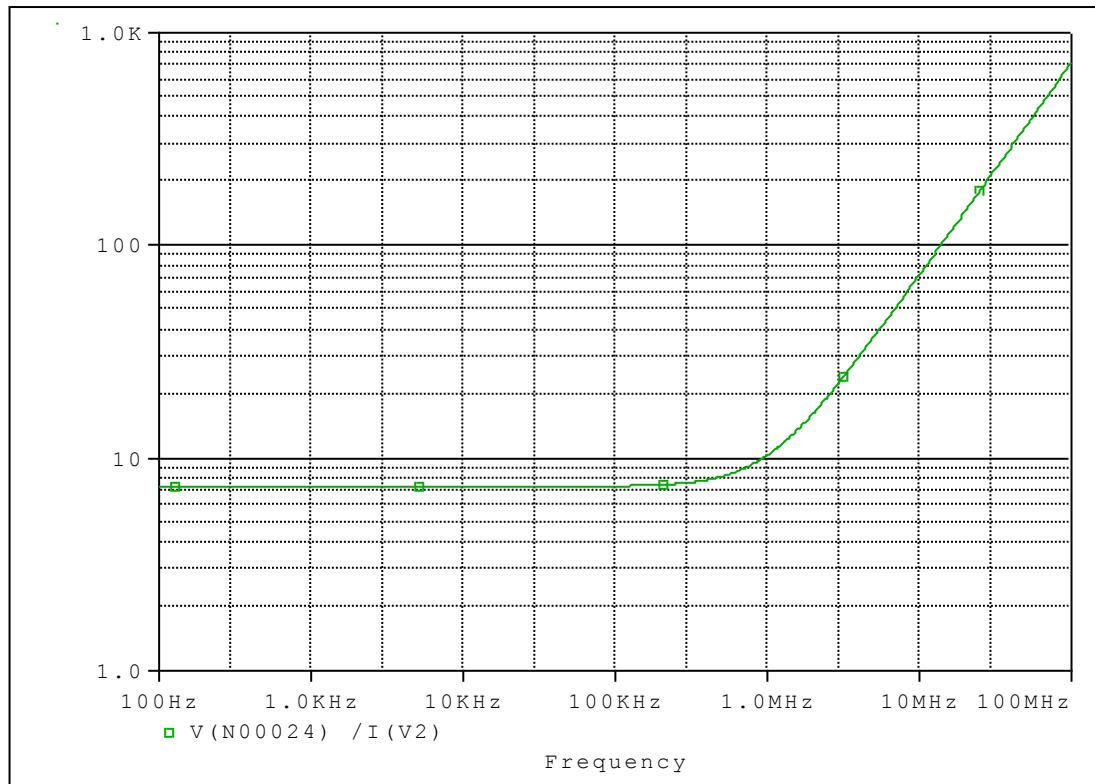
Measurement		
R1		
L1		
C1		

Equivalent circuit

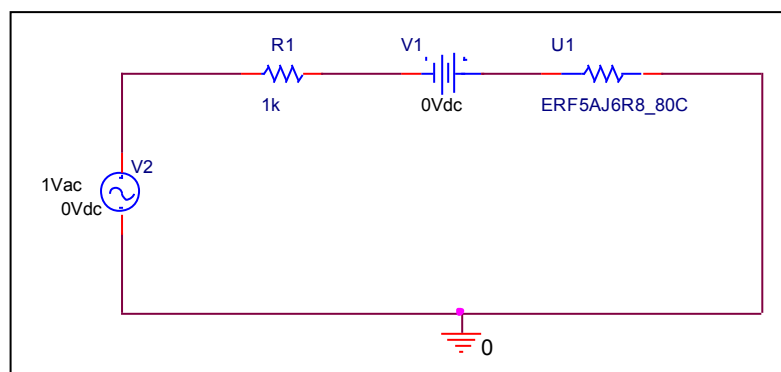


Frequency vs. $|Z|$ Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

Frequency(HZ)	 Z (ohm) Measurement	 Z (ohm) Circuit Simulation	%Error
100	7.232	7.358	1.736
1K	7.233	7.358	1.729
10K	7.231	7.358	1.749
100K	7.277	7.393	1.588
1M	10.568	10.314	2.402
10M	71.987	72.660	0.935