Device Modeling Report

COMPONENTS: RESISTOR PART NUMBER: ERF5AJ680

MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

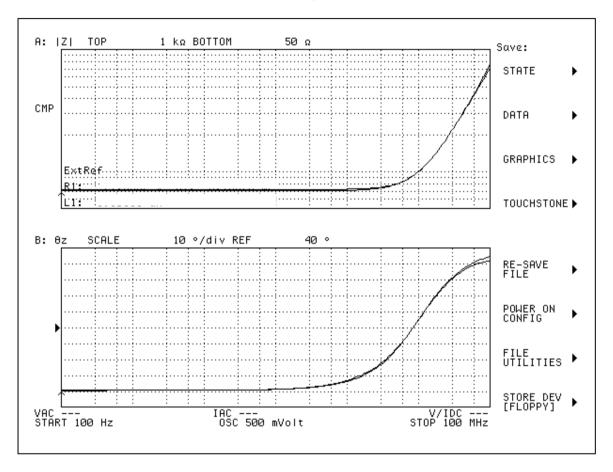
Theory: Auto Balancing Bridge Method

Optimization of Simulation

Range of adjustment Frequency:100 to100M(Hz) Frequency vs.|Z| and Frequency vs. θ z Characteristic

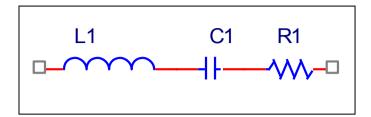
Attention

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



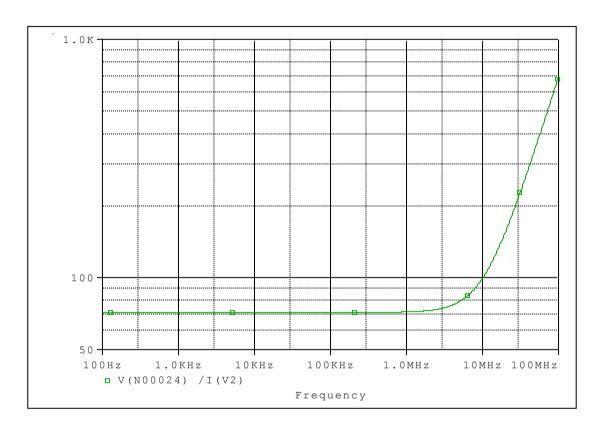
Measurement			
R1			
L1			
C1			

Equivalent circuit

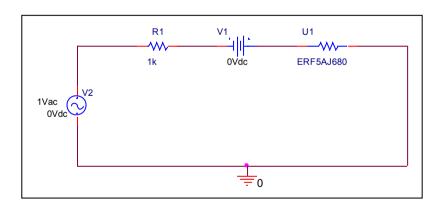


Frequency vs. |Z| Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

Eroguenev(UZ)	Z (ohm) Measurement	Z (ohm) Circuit Simulation	0/ Expor
Frequency(HZ)	Measurement	Circuit Simulation	%Error
100	69.458	71.591	3.071
1K	69.464	71.589	3.059
10K	69.435	71.589	3.102
100K	69.455	71.593	3.078
1M	70.152	71.923	2.525
10M	99.621	99.569	0.052
100M	747.842	695.617	6.983