Device Modeling Report

COMPONENTS: RESISTOR PART NUMBER: ERF5AJ100 THERMAL:TA=80(degree)

MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

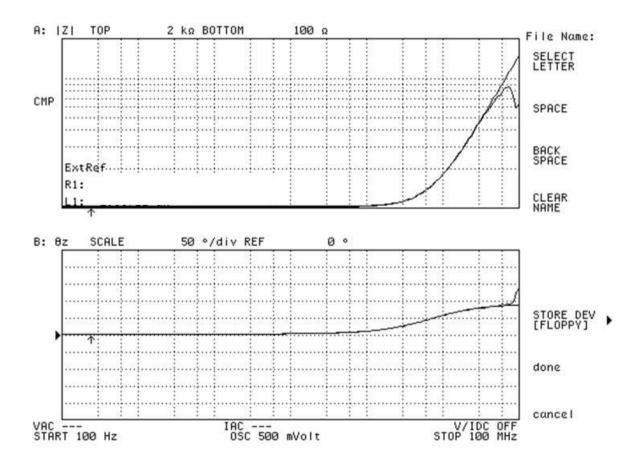
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

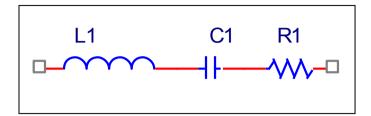
Attention

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



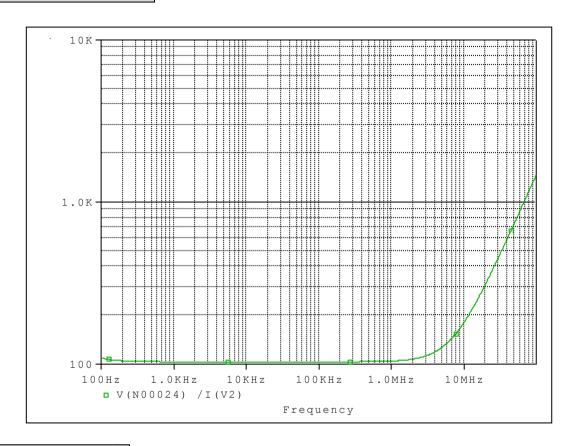
Measurement				
R1				
L1				
C1				

Equivalent circuit

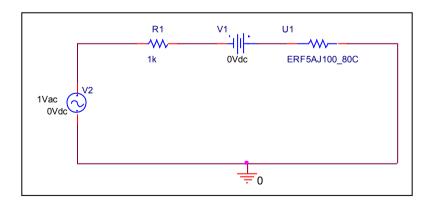


Frequency vs. |Z| Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

	Z (ohm)	Z (ohm)	
Frequency(HZ)	Measurement	Circuit Simulation	%Error
100	101.706	109.062	7.233
1K	101.708	103.532	1.793
10K	101.604	103.475	1.841
100K	101.720	103.485	1.735
1M	103.416	104.511	1.059
10M	182.644	179.645	1.642