Device Modeling Report

COMPONENTS: RESISTOR PART NUMBER: ERF5AJ680 THERMAL:TA=150(degree)

MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

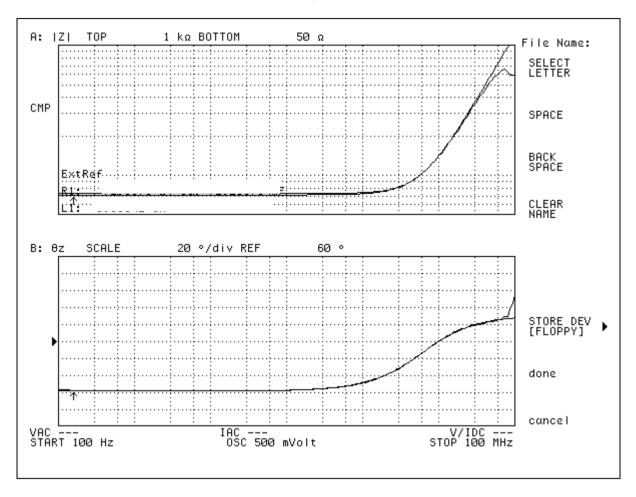
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

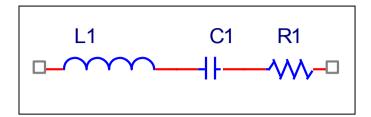
Attention

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



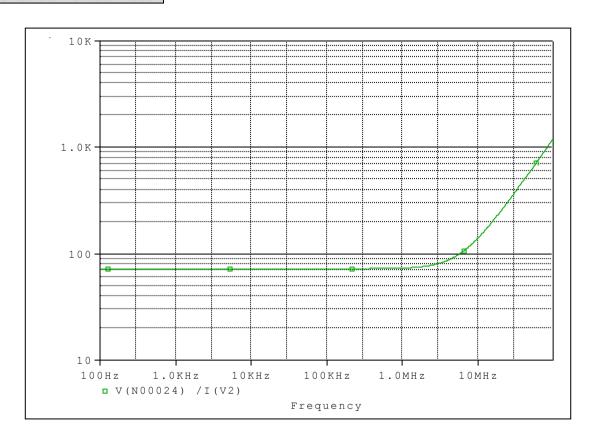
Measurement			
R1			
L1			
C1			

Equivalent circuit

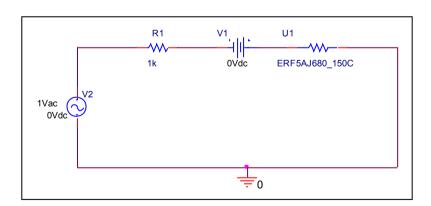


Frequency vs. |Z| Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

Frequency(HZ)	Z (ohm) Measurement	Z (ohm) Circuit Simulation	%Error
Frequency(HZ)	Measurement	Circuit Silliulation	/0 ⊑ 1101
100	70.692	72.401	2.418
1K	70.680	72.398	2.430
10K	70.647	72.398	2.479
100K	70.722	72.407	2.383
1M	72.243	73.372	1.563
10M	141.273	139.426	1.307