Device Modeling Report

COMPONENTS: RESISTOR PART NUMBER: ERF5AJ6R8 THERMAL:TA=120(degree)

MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

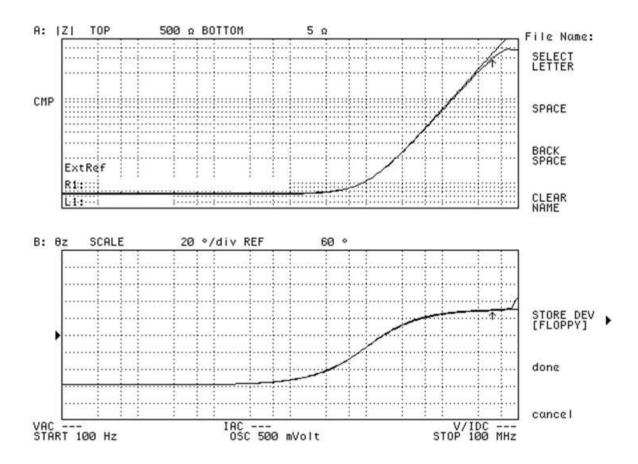
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

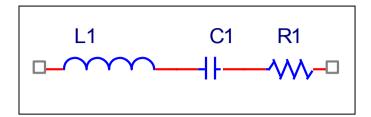
Attention

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



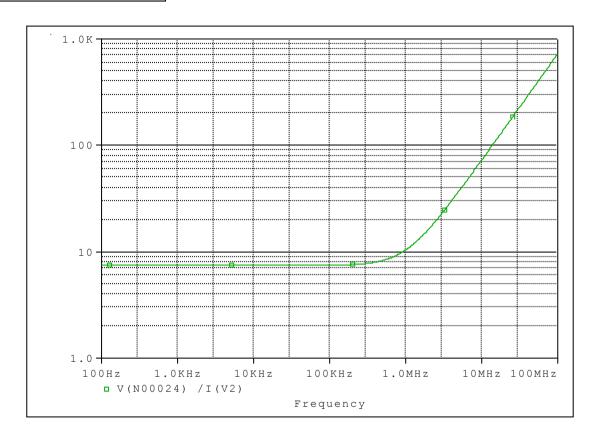
Measurement				
R1				
L1				
C1				

Equivalent circuit

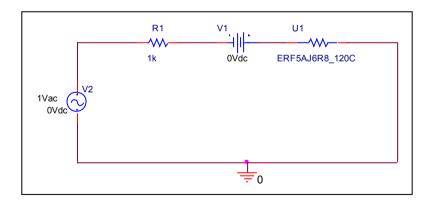


Frequency vs. |Z| Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

Frequency(HZ)	Z (ohm) Measurement	Z (ohm) Circuit Simulation	%Error
100	7.345	7.449	1.416
1K	7.347	7.449	1.383
10K	7.349	7.449	1.358
100K	7.390	7.484	1.267
1M	10.671	10.387	2.661
10M	72.146	72.778	0.877