Device Modeling Report

COMPONENTS: RESISTOR PART NUMBER: ERF5AJ151 THERMAL:TA=80(degree)

MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

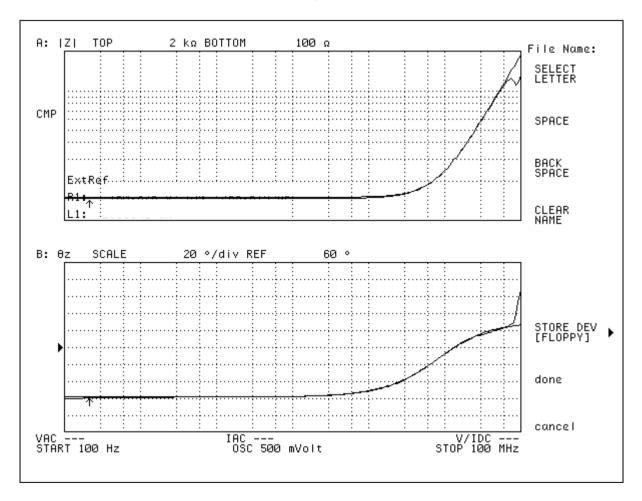
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

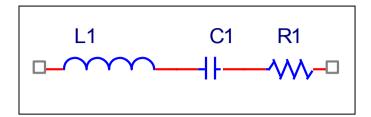
Attention

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



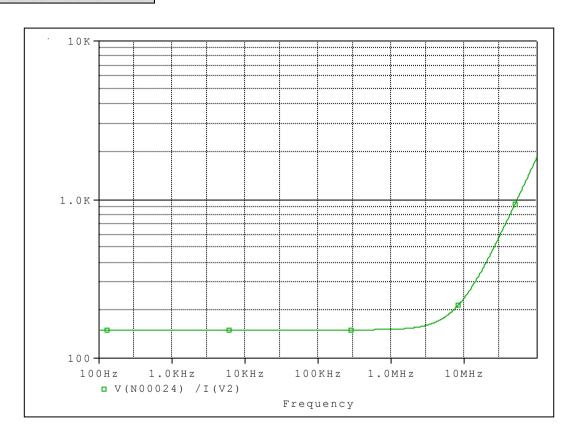
Measurement			
R1			
L1			
C1			

Equivalent circuit

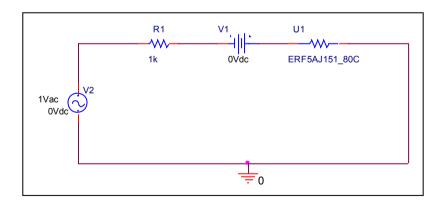


Frequency vs. |Z| Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

	Z (ohm)	Z (ohm)	
Frequency(HZ)	Measurement	Circuit Simulation	%Error
100	147.236	150.995	2.553
1K	147.272	150.877	2.448
10K	147.285	150.876	2.438
100K	147.262	150.887	2.461
1M	149.263	152.015	1.844
10M	243.012	239.310	1.523