Device Modeling Report

COMPONENTS: RESISTOR PART NUMBER: ERF5AJ221 THERMAL:TA=80(degree)

MANUFACTURER: MATSUSHITA



Bee Technologies Inc.

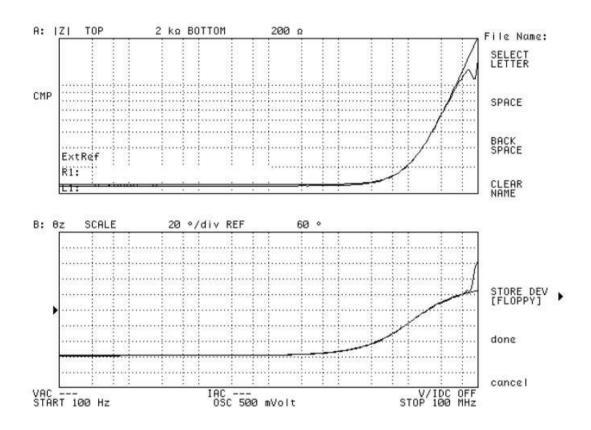
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

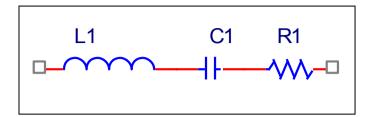
Attention

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



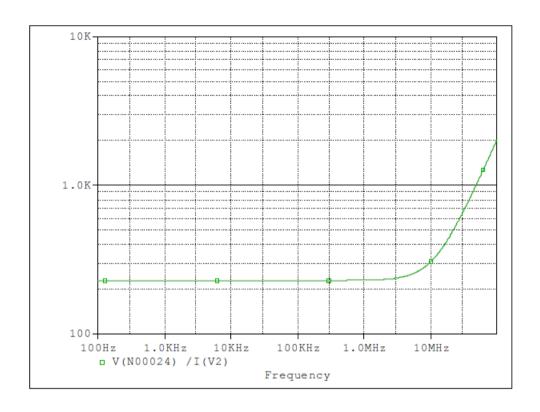
Measurement				
R1				
L1				
C1				

Equivalent circuit

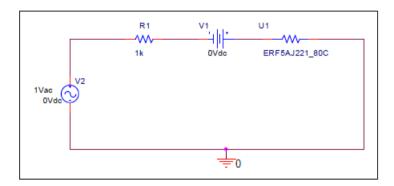


Frequency vs. |Z| Characteristic

Circuit simulation result



Evaluation Circuit



Simulation Result

Frequency(HZ)	Z (ohm) Measurement	Z (ohm) Circuit Simulation	%Error
100	224.311	229.407	2.272
1K	224.367	229.399	2.243
10K	224.169	229.399	2.333
100K	224.343	229.408	2.258
1M	226.088	230.273	1.851
10M	308.130	304.622	1.138