Device Modeling Report

COMPONENTS: CAPACITOR/Films
PART NUMBER: PA104-C
MANUFACTURER: Okaya Electric Industries Co.,Ltd.

Bee Technologies Inc.

heory: Auto Balancing Bridge Method

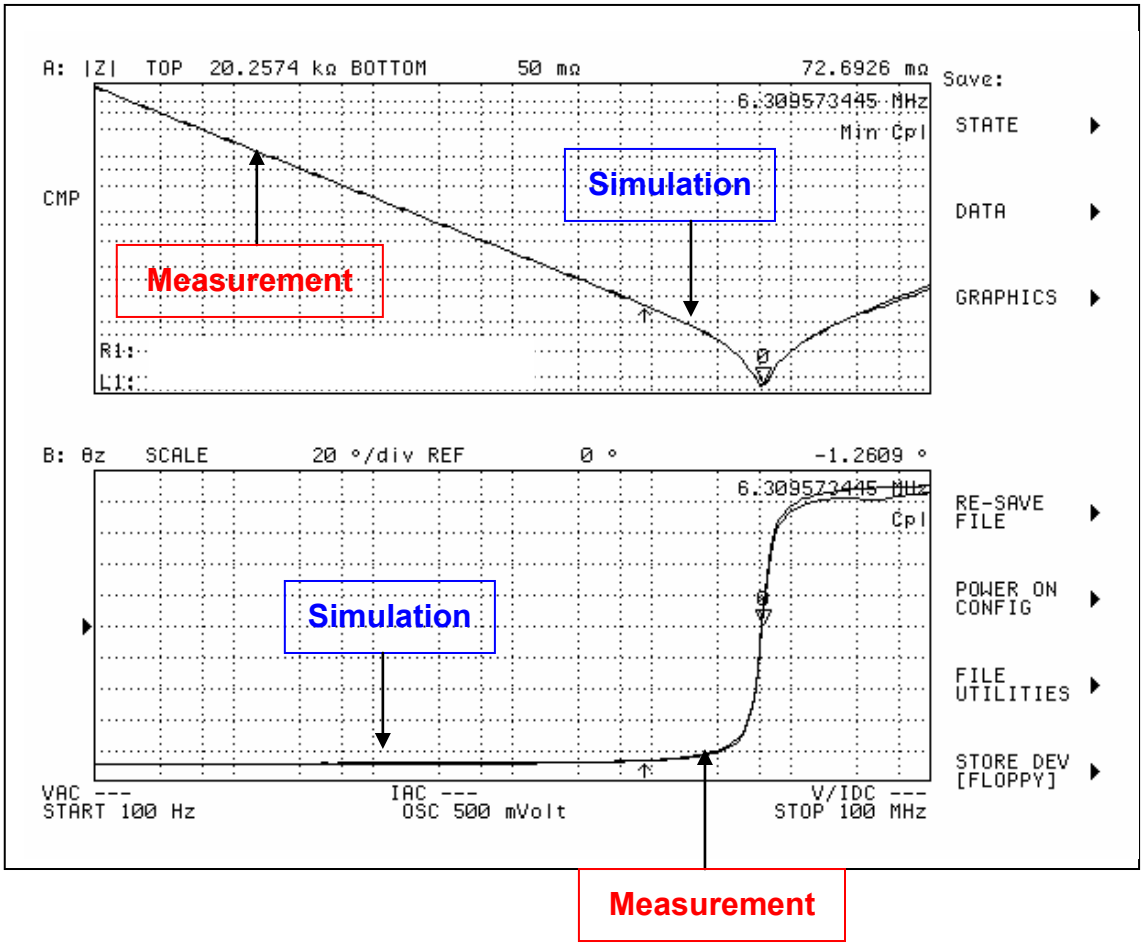
Optimization of Simulation

Range of adjustment Frequency:100Hz to100M(Hz)

Frequency vs.|Z| and Frequency vs. θz Characteristic

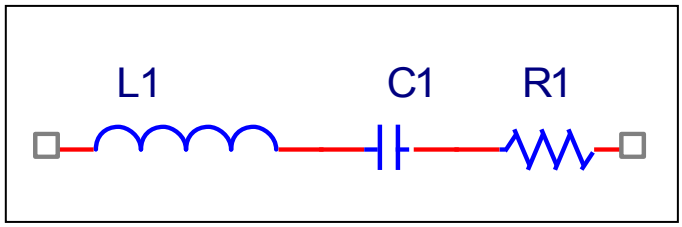
Attention)

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



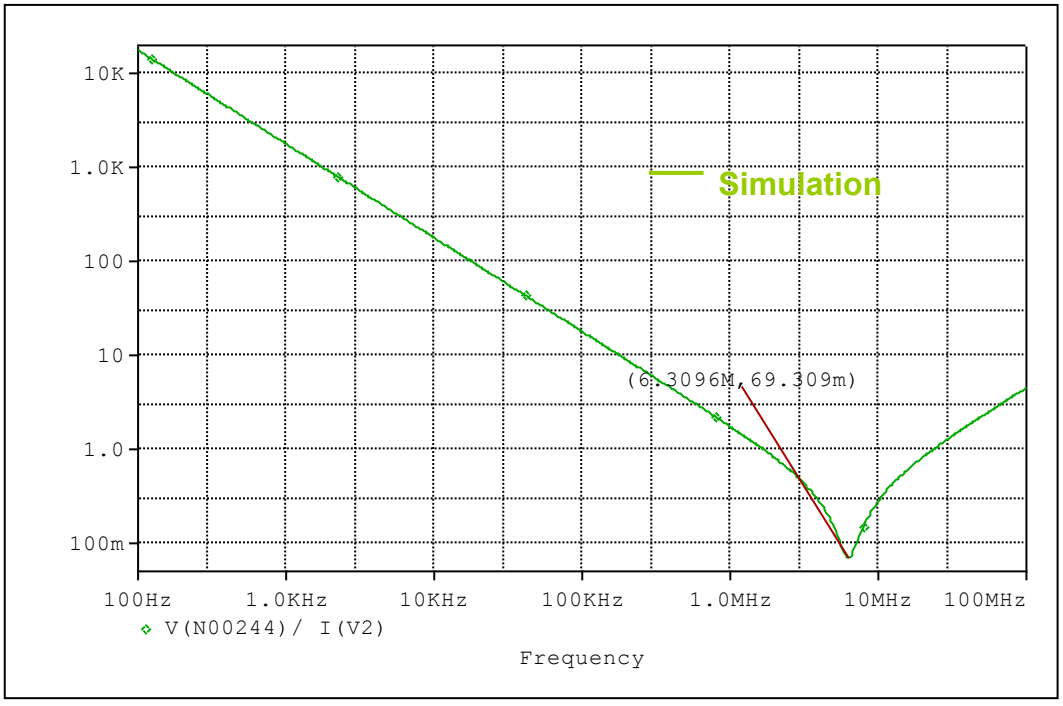
L1	
C1	
R1	

Equivalent circuit

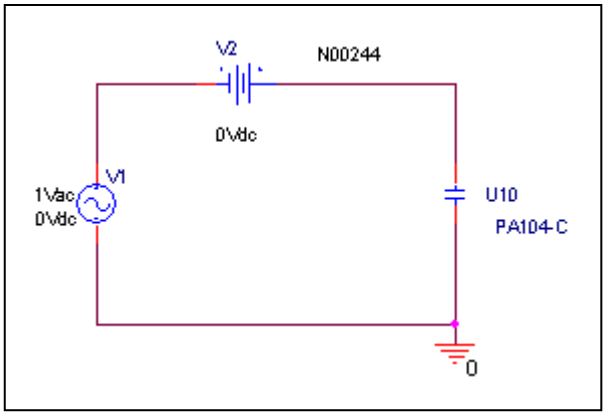


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	IZI (ohm) :Measurement	IZI (ohm) :Simulation	% Error
100	18.0237K	17.988K	-0.1981
1K	1.8128K	1.7988K	-0.7723
10K	180.534	179.876	-0.3645
100K	18.1726	17.983	-1.0433
1M	1.8347	1.7546	-4.3658
10M	283.126m	284.957m	0.6467
100M	5.0146	4.5379	-9.5062

	Measurement	Simulation	%Error
FSRF(Hz)	6.3096M	6.3976M	1.3947
IZI (ohm)	69.309m	71.401m	3.0184