Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC

PART NUMBER: ECEA0JKG101 MANUFACTURER: Panasonic THERMAL: Ta= 40C (degree)



Bee Technologies Inc.

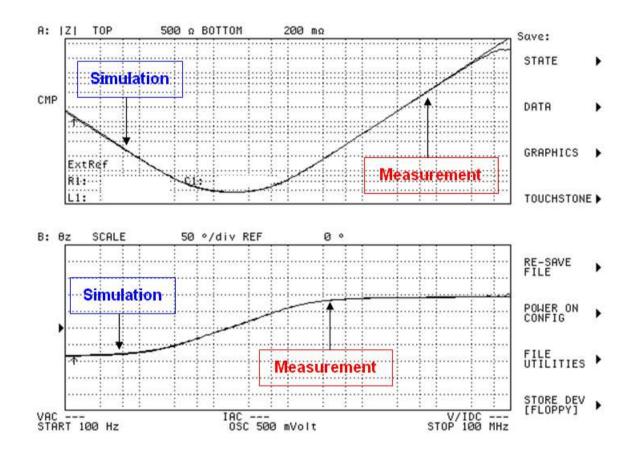
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

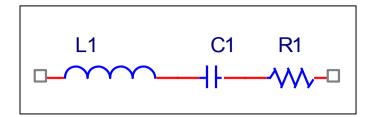
Attention)

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



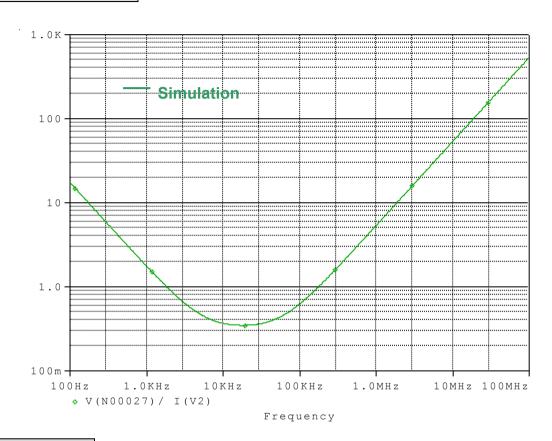
	Measurement	
R1		
C1		
L1		

Equivalent circuit

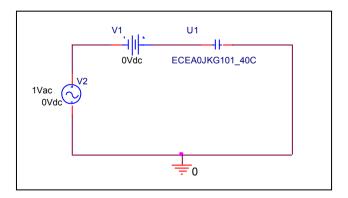


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	/6 E1101
100	16.113	17.367	7.783
1K	1.673	1.766	5.565
10K	405.688m	367.812m	- 9.336
100K	635.616m	623.644m	- 1.883
1M	5.605	5.361	- 4.349
10M	53.500	53.514	0.025