Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC

PART NUMBER: ECEA0JKG470 MANUFACTURER: Panasonic THERMAL: Ta= 40C (degree)



Bee Technologies Inc.

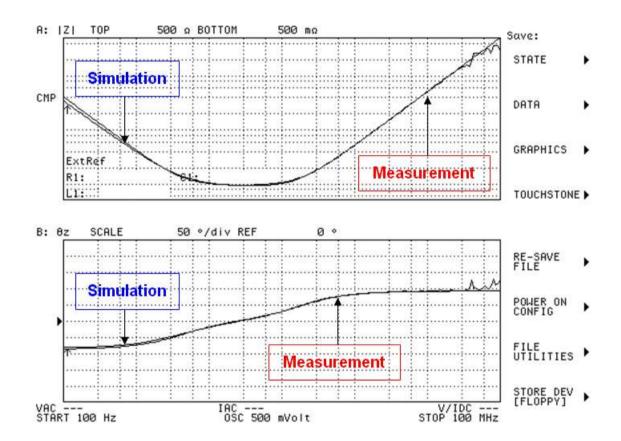
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

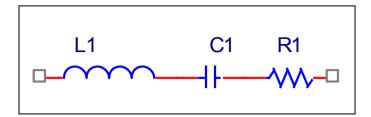
Attention)

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



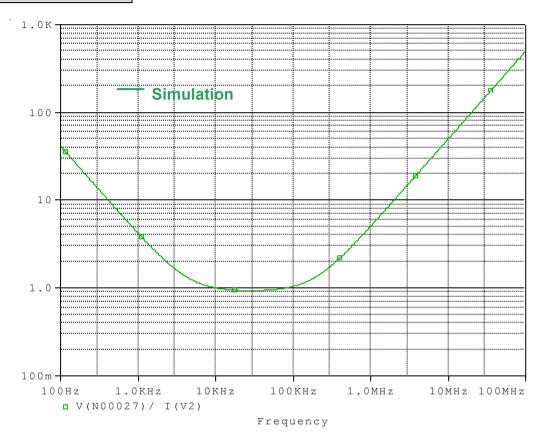
	Measurement	
R1		
C1		
L1		

Equivalent circuit

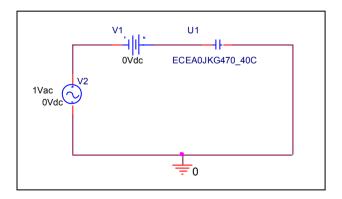


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	/6 E1101
100	35.008	41.284	17.926
1K	3.909	4.228	8.147
10K	1.181	1.004	- 14.946
100K	1.127	1.042	- 7.525
1M	5.346	5.066	- 5.230
10M	50.008	49.841	- 0.335