Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC

PART NUMBER: ECEAOJKG221 MANUFACTURER: Panasonic THERMAL: Ta= 40C (degree)



Bee Technologies Inc.

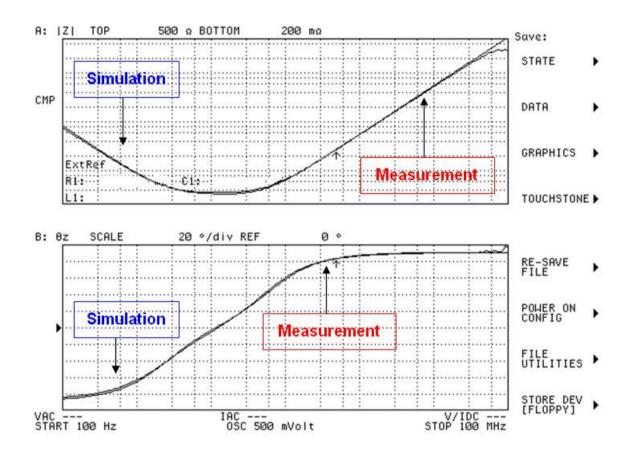
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

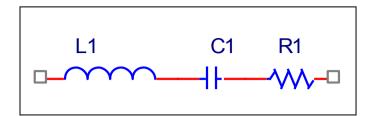
Attention)

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



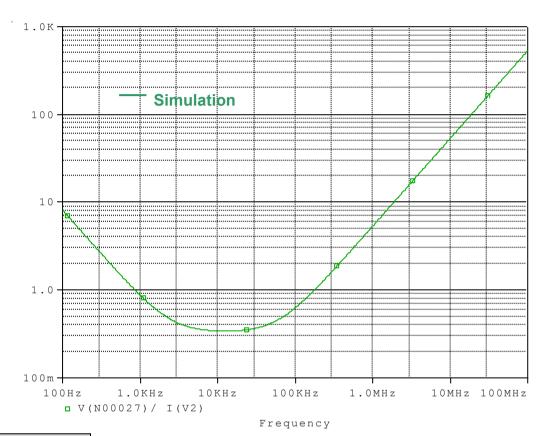
	Measurement	
R1		
C1		
L1		

Equivalent circuit

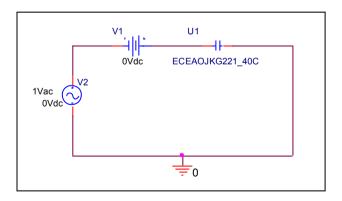


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	/ ₀ E1101
100	7.460	8.148	9.223
1K	827.677m	877.673m	6.041
10K	326.486m	341.984m	4.747
100K	610.225m	625.512m	2.505
1M	5.480	5.337	- 2.622
10M	52.283	53.226	1.803