Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC

PART NUMBER: ECEA0JKG470 MANUFACTURER: Panasonic THERMAL: Ta= 80C (degree)



Bee Technologies Inc.

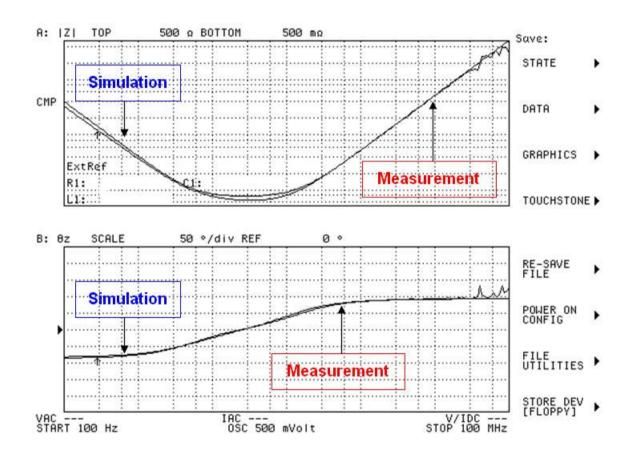
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

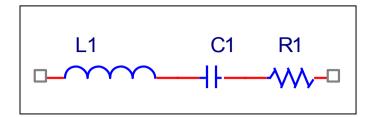
Attention)

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



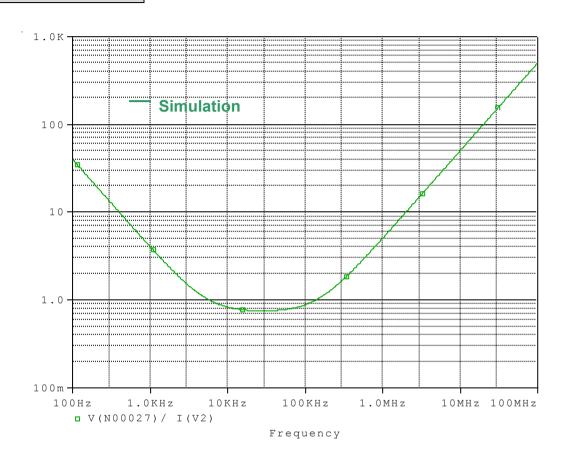
	Measurement	
R1		
C1		
L1		

Equivalent circuit

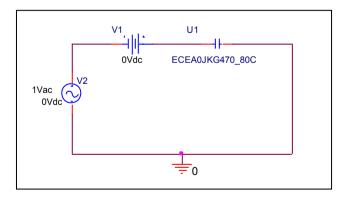


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	/6 E1101
100	31.844	40.004	25.626
1K	3.404	4.065	19.437
10K	660.695m	830.388m	25.684
100K	707.016m	883.456m	24.956
1M	5.308	5.071	- 4.472
10M	49.718	50.189	0.948