Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC PART NUMBER: LXZ25VB2200MK35 MANUFACTURER: Nippon Chemi-Con Corporation THERMAL: Ta= 80C (degree)



Bee Technologies Inc.

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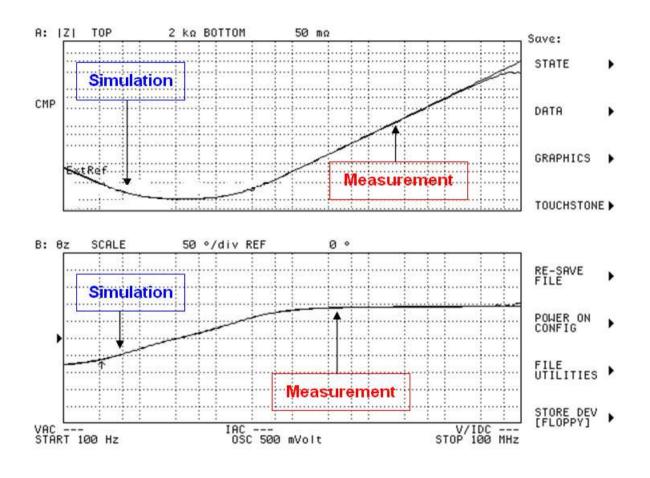
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

Attention)

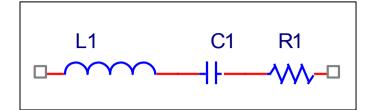
Please use SPICE MODEL within the range from 100Hz to 100M(Hz)



	Measurement	
R1		
C1		
L1		

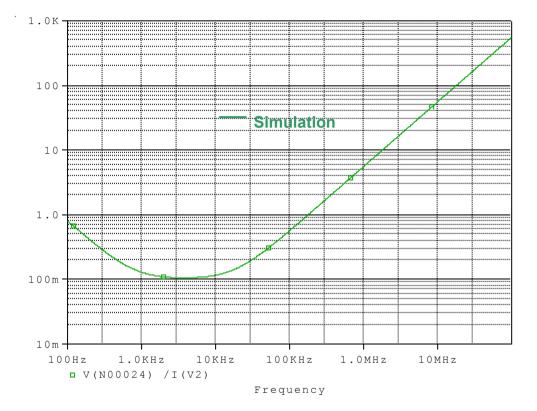
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Equivalent circuit

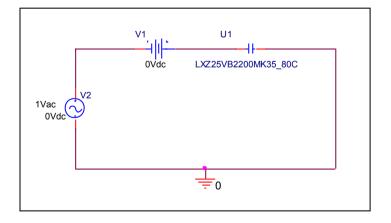


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



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Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	/0 EITOI
100	756.714m	802.378m	6.035
1K	119.938m	128.853m	7.433
10K	109.411m	115.789m	5.830
100K	566.165m	566.560m	0.070
1M	5.677	5.576	- 1.782
10M	54.178	55.745	2.892