Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC PART NUMBER: UUG1A103MRR1MS MANUFACTURER: Nichicon REMARK: TA=25C



Bee Technologies Inc.

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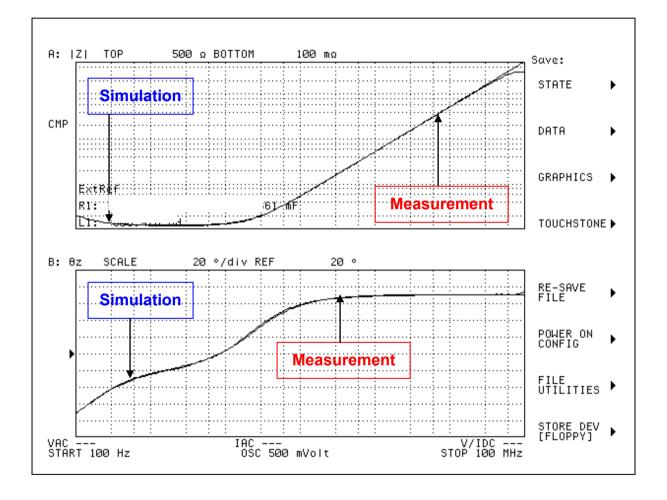
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

Attention)

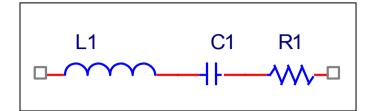
Please use SPICE MODEL within the range from 100Hz to 100M(Hz)



	Measurement	
R1		
C1		
L1		

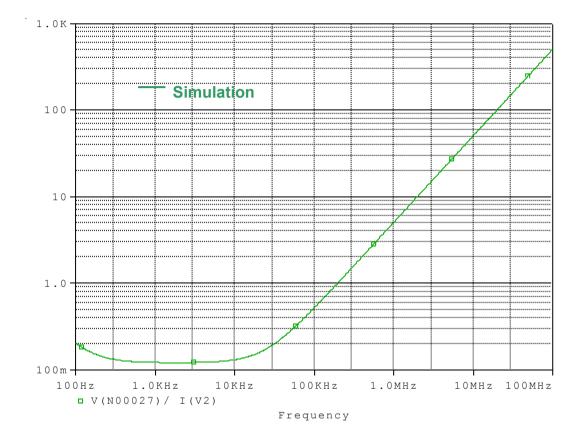
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Equivalent circuit

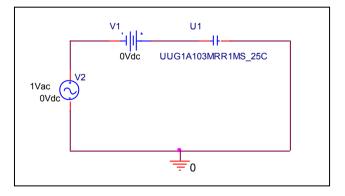


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



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Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	/0 EITOI
100	204.559	204.246	- 0.153
1K	118.128	122.315	3.544
10K	127.353	131.281	3.085
100K	528.538	520.964	- 1.433
1M	5.303	5.068	- 4.426
10M	50.689	50.670	- 0.038