Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC PART NUMBER: UUG0J103MNR1MS MANUFACTURER: Nichicon REMARK: TA=40C



Bee Technologies Inc.

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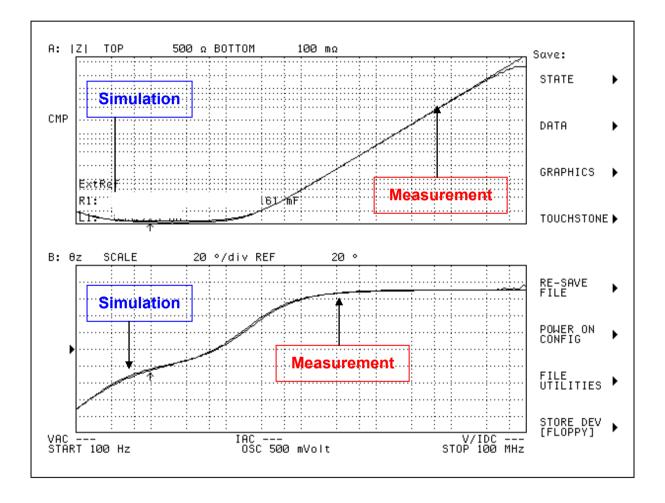
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

Attention)

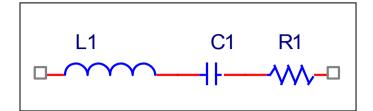
Please use SPICE MODEL within the range from 100Hz to 100M(Hz)



	Measurement	
R1		
C1		
L1		

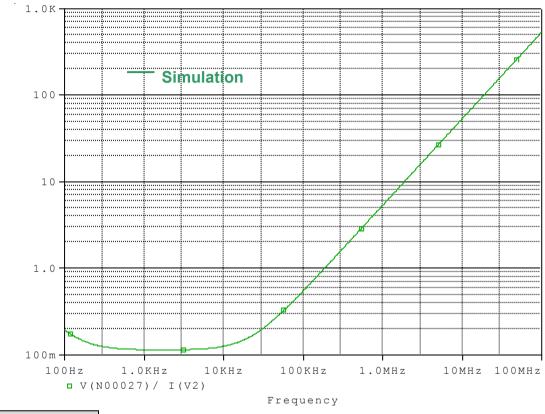
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Equivalent circuit

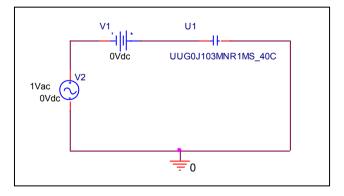


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



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Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	/0 EITOI
100	197.128m	194.243m	- 1.464
1K	108.042m	115.126m	6.557
10K	119.251m	125.927m	5.599
100K	552.193m	548.373m	- 0.692
1M	5.564	5.365	- 3.563
10M	53.110	53.641	0.999