Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC
PART NUMBER: UUG1E332MNR1M5
MANUFACTURER: Nichicon
THERMAL: Ta= 40C (degree)

Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

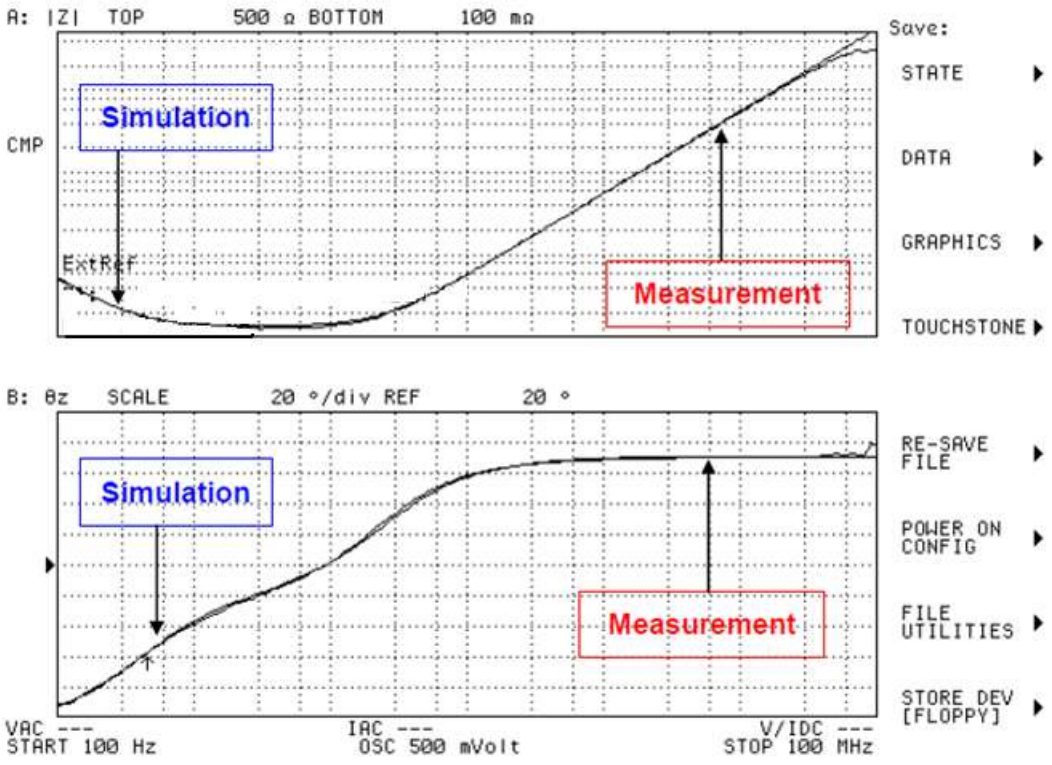
Optimization of Simulation

Range of adjustment Frequency:100 Hz to100M(Hz)

Frequency vs.|Z| and Frequency vs. θz Characteristic

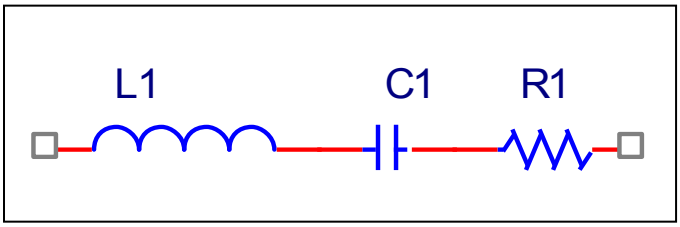
Attention)

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



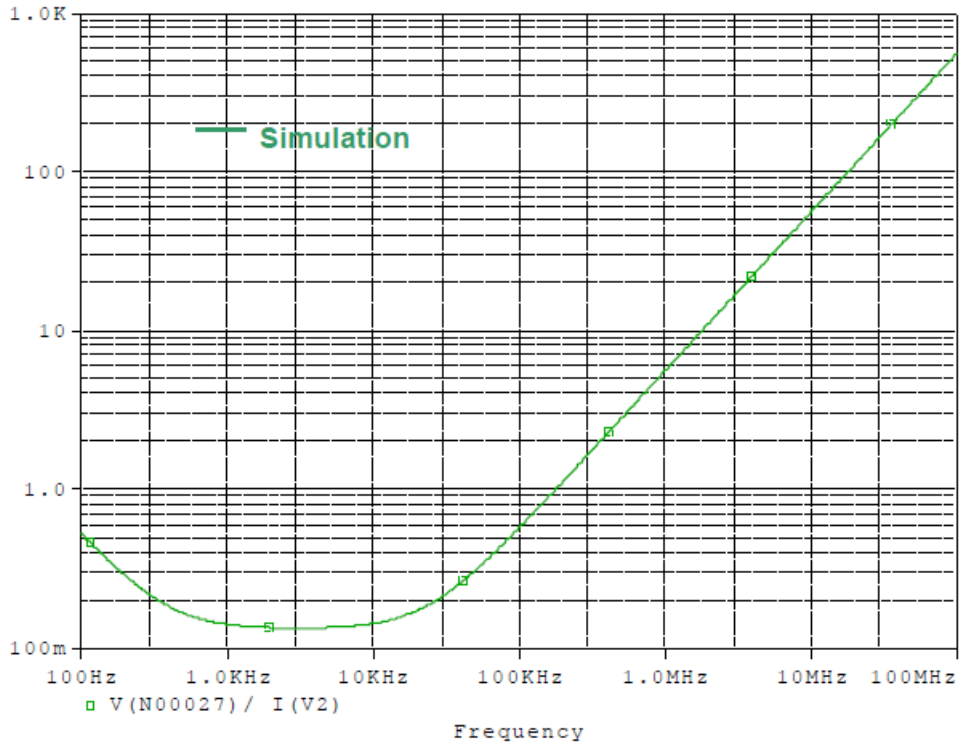
	Measurement	
R1		
C1		
L1		

Equivalent circuit

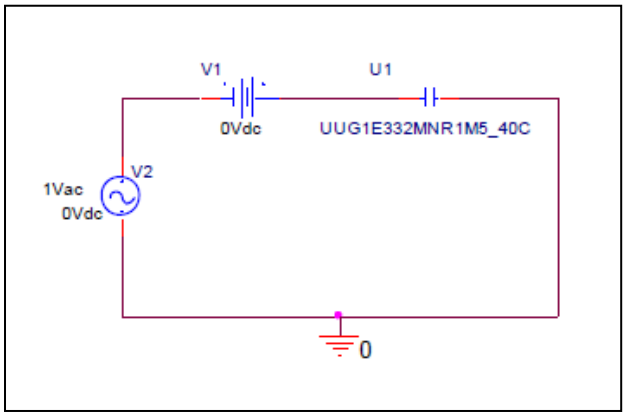


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	IZI (Ω)		% Error
	Measurement	Simulation	
100	513.982m	529.280m	2.976
1K	138.952m	142.369m	2.459
10K	134.460m	144.294m	7.314
100K	561.688m	570.534m	1.575
1M	5.597	5.643	0.818
10M	53.447	56.415	5.554