Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC
PART NUMBER: UUG1E332MNR1M5
MANUFACTURER: Nichicon
THERMAL: Ta= 60C (degree)

Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

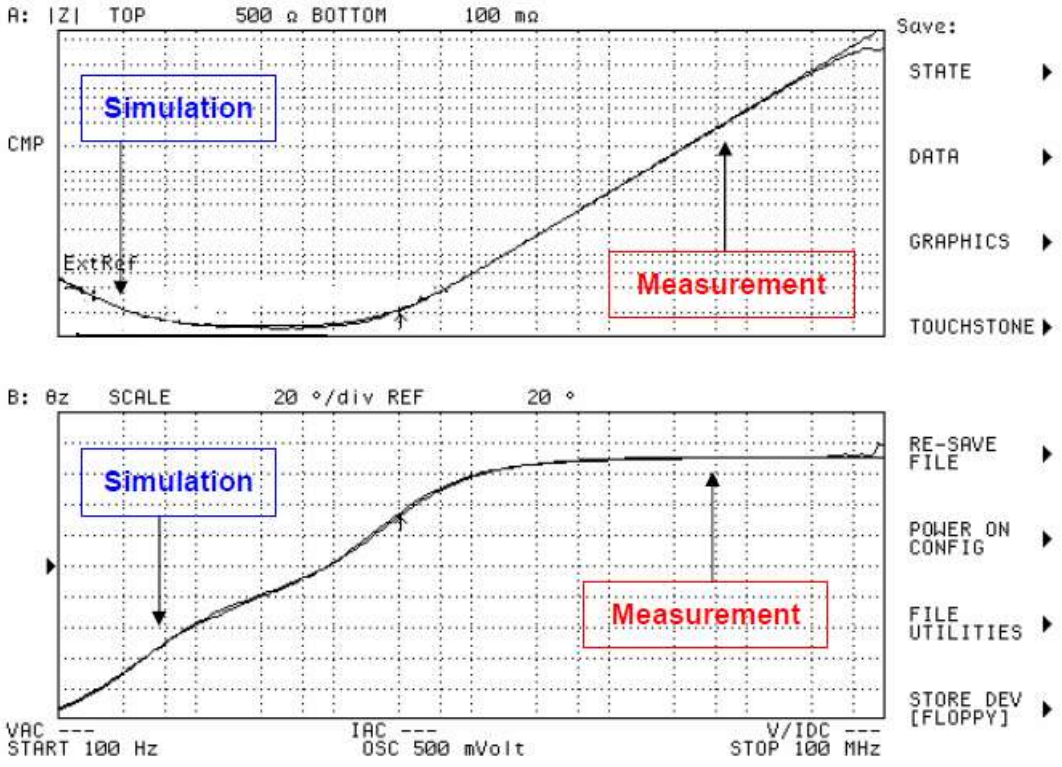
Optimization of Simulation

Range of adjustment Frequency:100 Hz to100M(Hz)

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

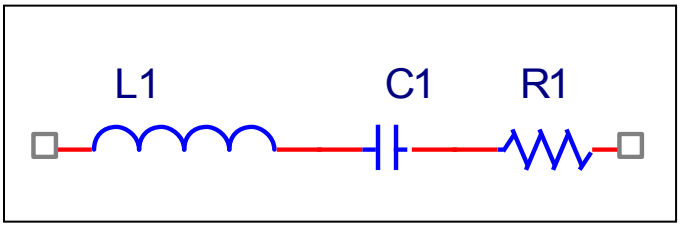
Attention)

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



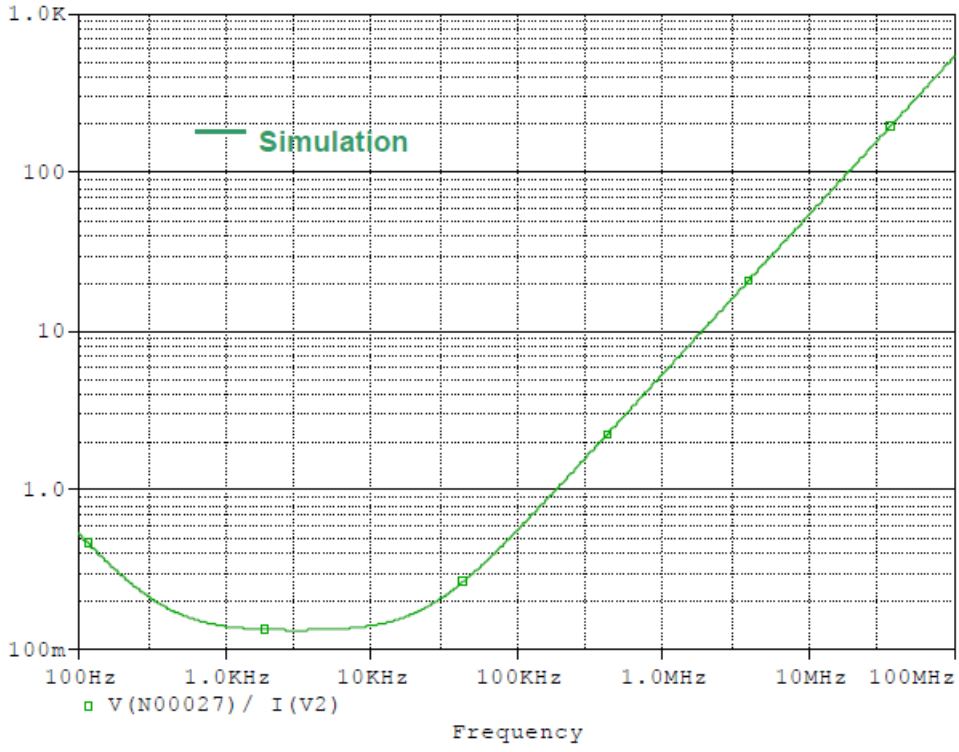
	Measurement	
R1		
C1		
L1		

Equivalent circuit

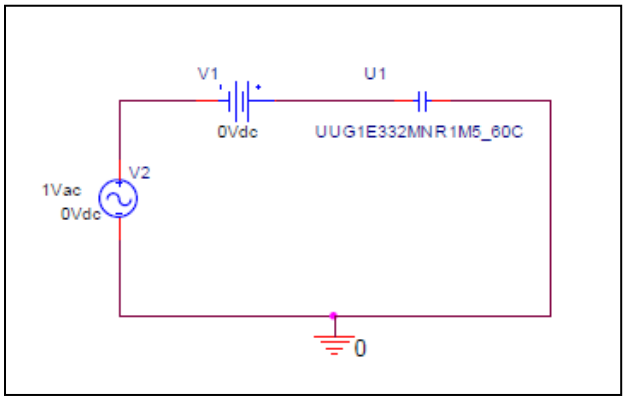


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	IZI (Ω)		% Error
	Measurement	Simulation	
100	510.054m	528.524m	3.621
1K	136.963m	139.836m	2.098
10K	132.696m	140.897m	6.181
100K	558.914m	555.813m	0.555
1M	5.595	5.406	3.385
10M	53.401	54.04	1.196