

Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC
PART NUMBER: LXZ25VB3300ML30
MANUFACTURER: Nippon Chemi-Con Corporation
THERMAL: Ta= 60C (degree)



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

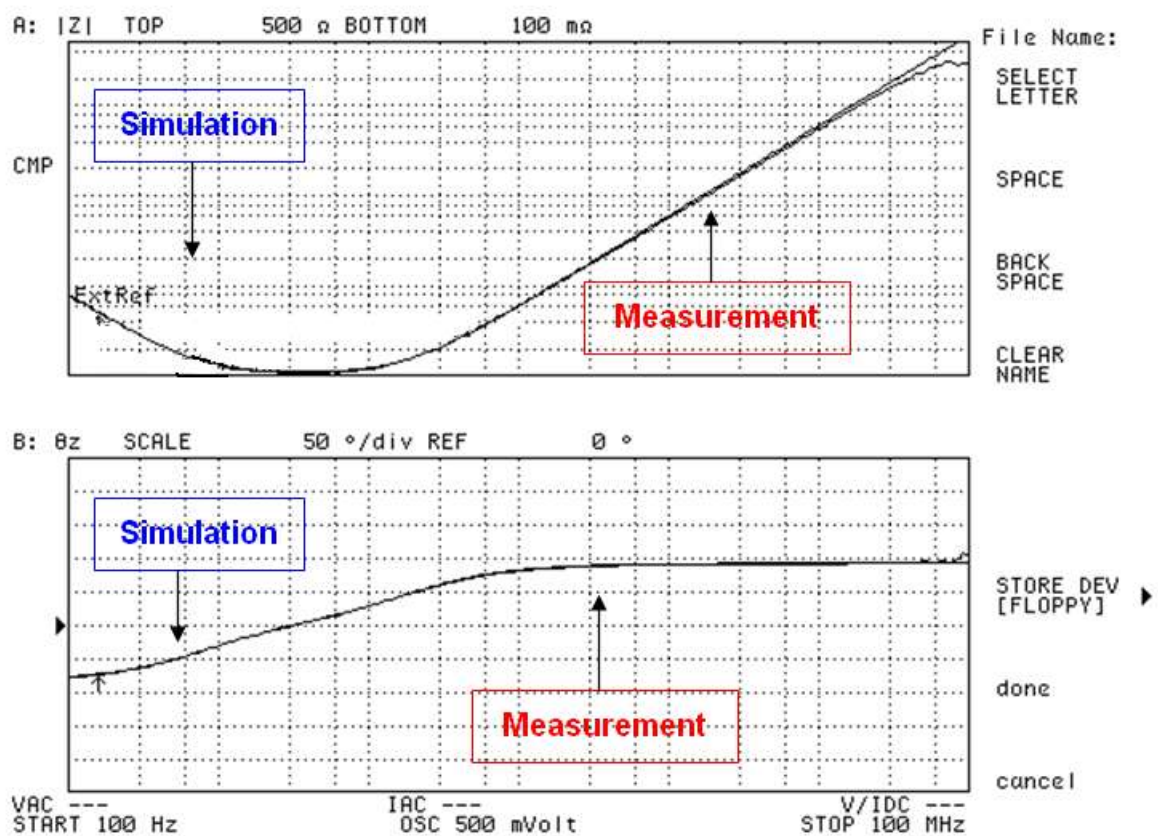
Optimization of Simulation

Range of adjustment Frequency: 100 Hz to 100 MHz

Frequency vs. $|Z|$ and Frequency vs. θ_z Characteristic

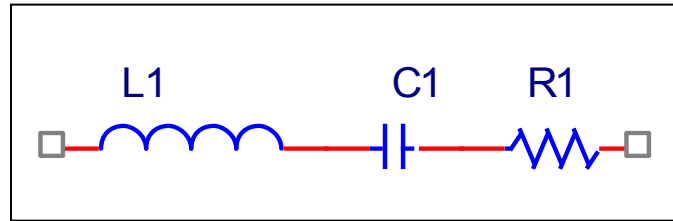
Attention)

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



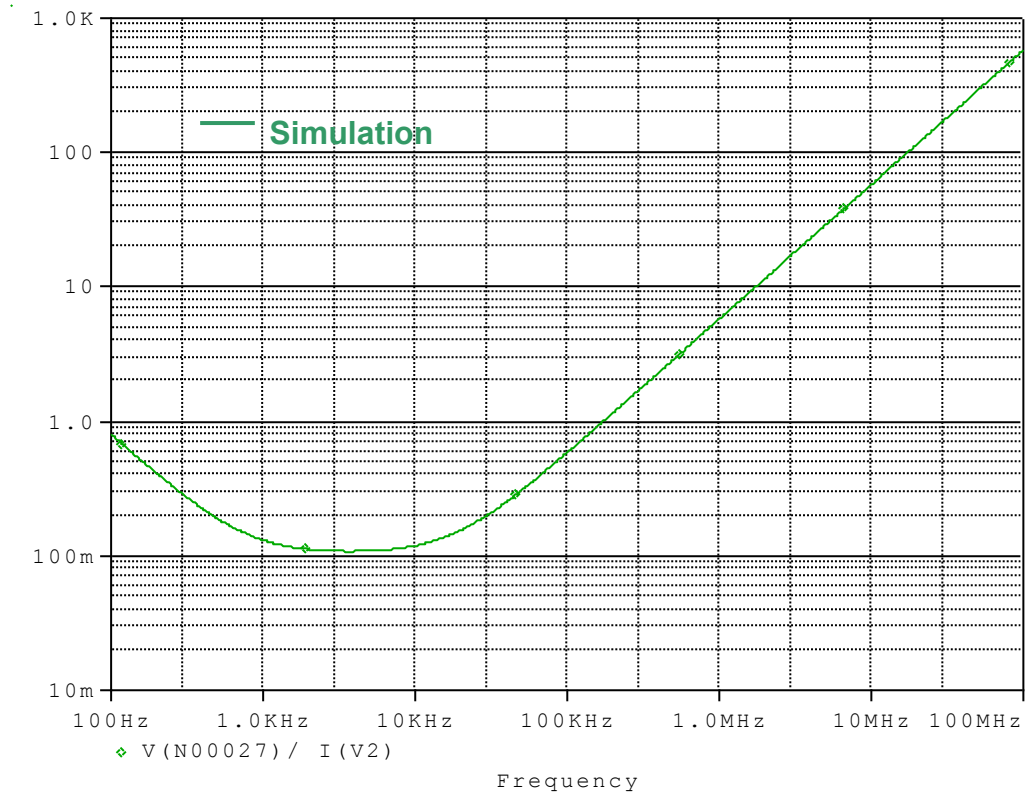
	Measurement	
R1		
C1		
L1		

Equivalent circuit

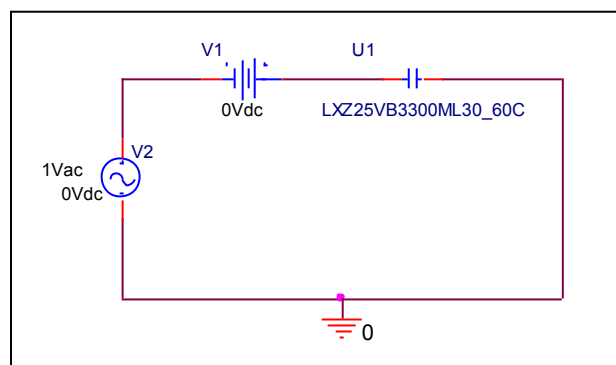


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	Z (Ω)		% Error
	Measurement	Simulation	
100	775.417m	800.745m	3.266
1K	128.840m	130.838m	1.551
10K	118.084m	119.104m	0.864
100K	571.905m	587.330m	2.697
1M	5.702	5.782	1.406
10M	54.342	57.808	6.378