Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC

PART NUMBER: UUG1C472MNR1MS

MANUFACTURER: Nichicon THERMAL: Ta= 60C (degree)



Bee Technologies Inc.

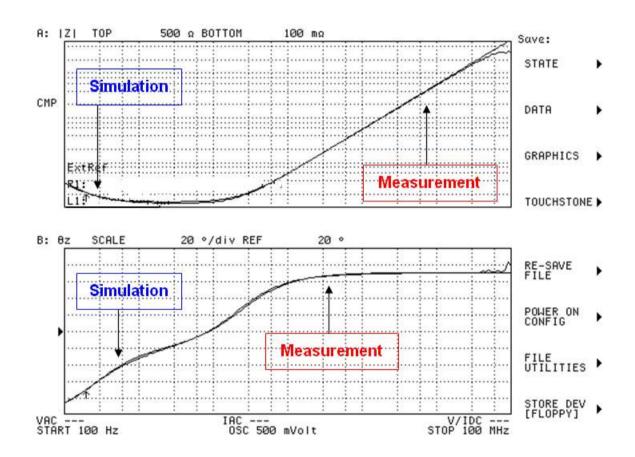
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

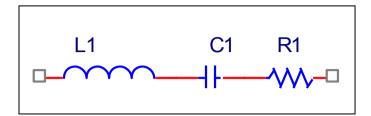
Attention)

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



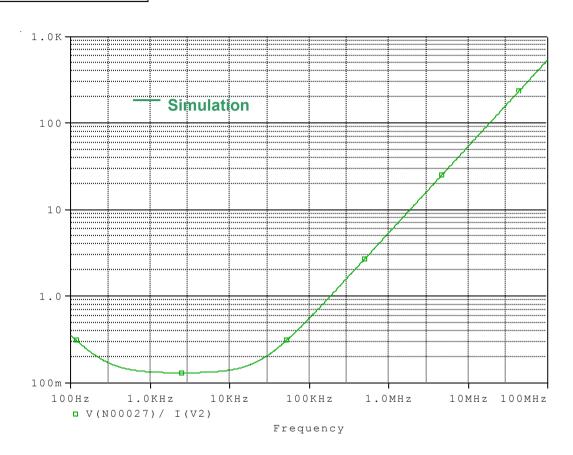
	Measurement	
R1		
C1		
L1		

Equivalent circuit

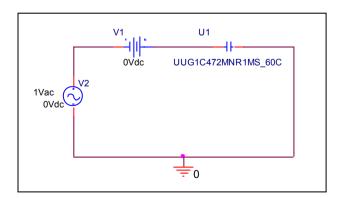


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	/6 E1101
100	347.109m	357.058m	2.866
1K	125.889m	134.333m	6.708
10K	130.597m	140.899m	7.888
100K	557.336m	556.786m	- 0.099
1M	5.570	5.415	- 2.781
10M	53.113	54.139	1.932