Device Modeling Report

COMPONENTS: CAPACITOR/CERAMIC
PART NUMBER: ECKTBC472ME
MANUFACTURER: PANASONIC
REMARK: TA=60C

Bee Technologies Inc.

Theory: Auto Balancing Bridge Method
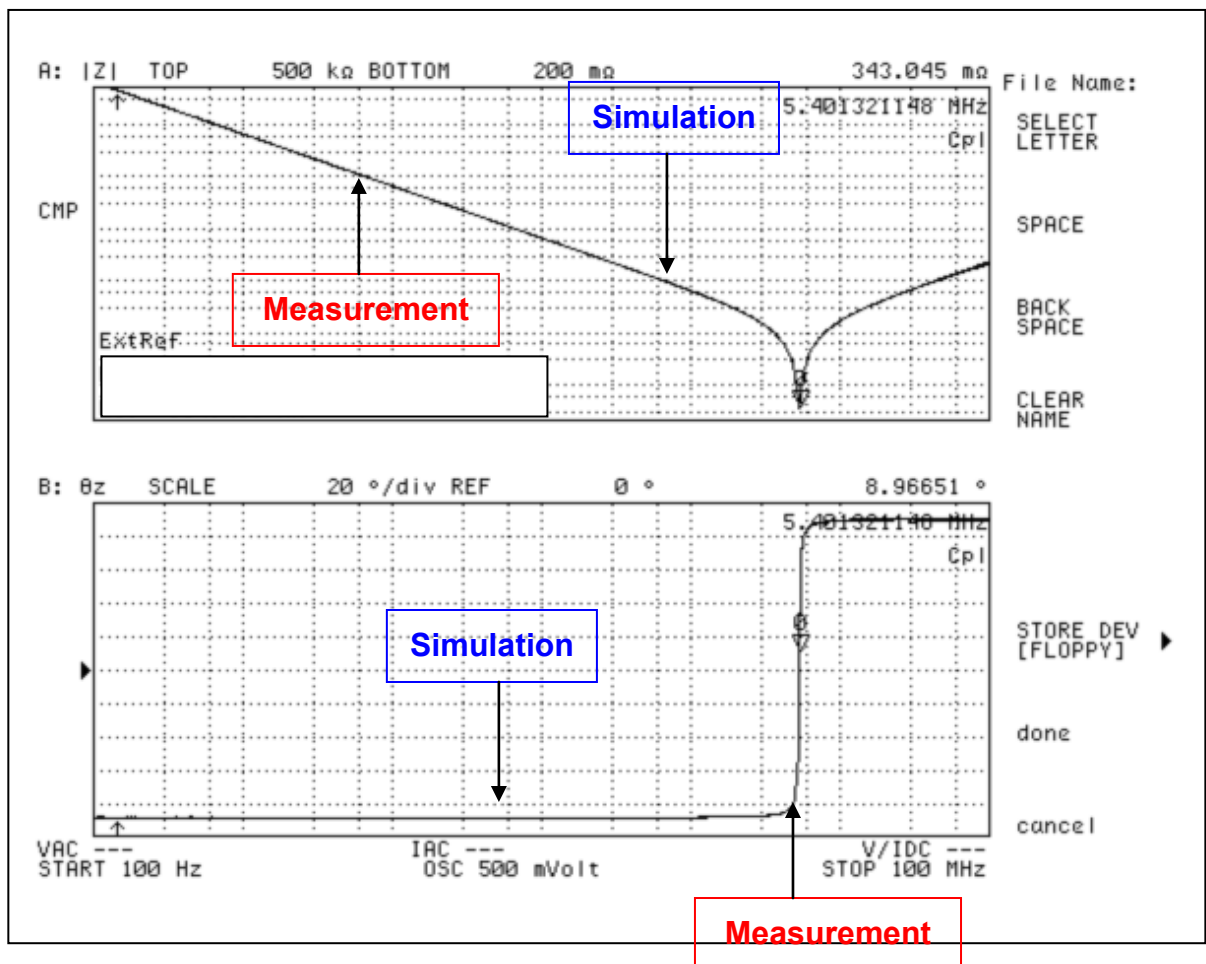
Optimization of Simulation
Range of adjustment Frequency:100 Hz to100M(Hz)
Frequency vs.|Z| and Frequency vs. θz Characteristic

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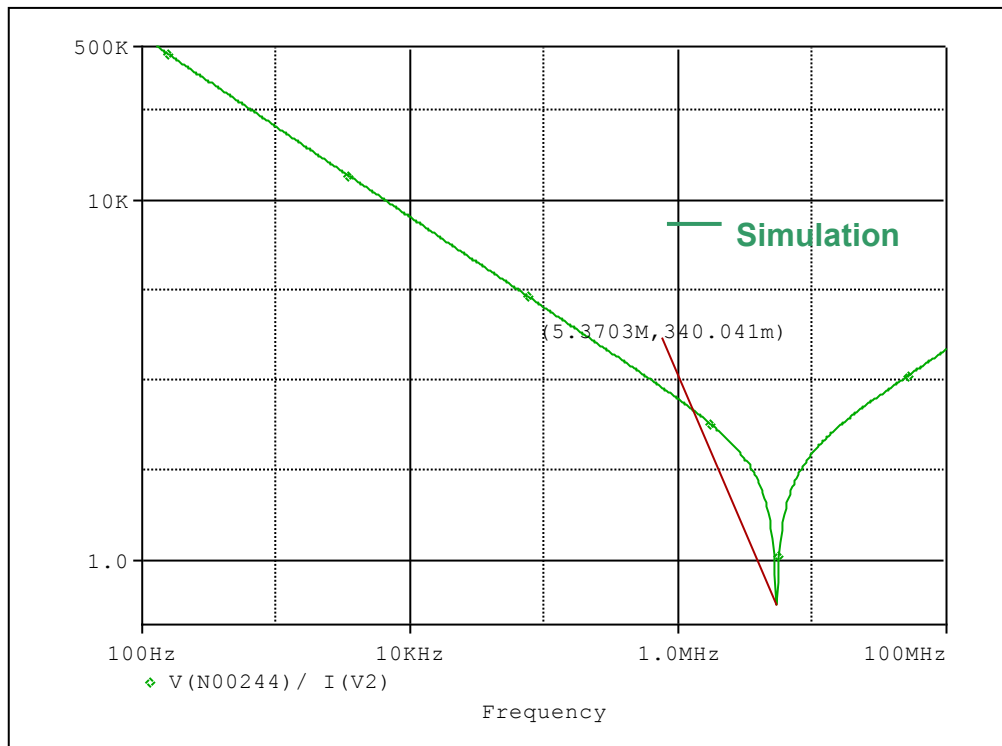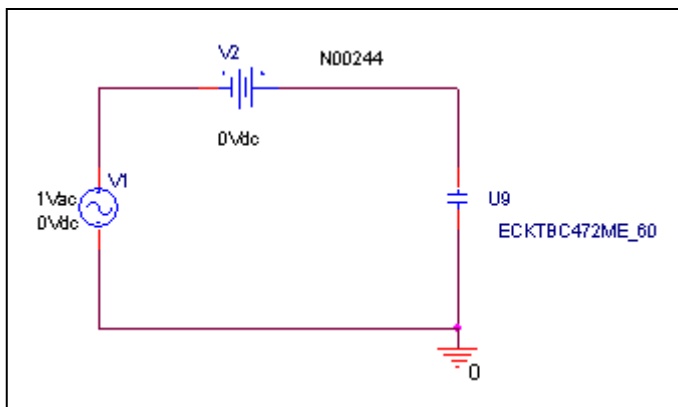*Please use SPICE MODEL within the range from 100Hz to 100M(Hz)*

L1	
C1	
R1	

Frequency vs. IZI Characteristic

Circuit Simulation result

Legend and plot axis labels:
- 500K
- 10K
- 1.0
- Simulation
- (5.3703M,340.041m)
- 100Hz   10KHz   1.0MHz   100MHz
- ◇ V(N00244)/ I(V2)
- Frequency

Evaluation Circuit

Circuit labels:
- V2
- N00244
- 0Vdc
- 1Vac V1
- 0Vdc
- U9
- ECKTBC472ME_60
- 0

Simulation result

Frequency (Hz)	IZI (ohm) :Measurement	IZI (ohm) :Simulation	% Error
1K	64.2236k	64.556k	0.5176
10K	6.455664	6.4556k	-0.0009
100K	647.954	645.334	-0.4043
1M	62.7592	62.330	-0.6839
10M	15.709	15.818	0.6939
100M	196.792	222.055	12.8374

	Measurement	Simulation	%Error
FSRF(Hz)	343.045m	340.041m	-0.8757
IZI (ohm)	5.4013M	5.3703M	-0.5739