Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC

PART NUMBER: LXZ25VB3300ML30

MANUFACTURER: Nippon Chemi-Con Corporation

THERMAL: Ta= 80C (degree)



Bee Technologies Inc.

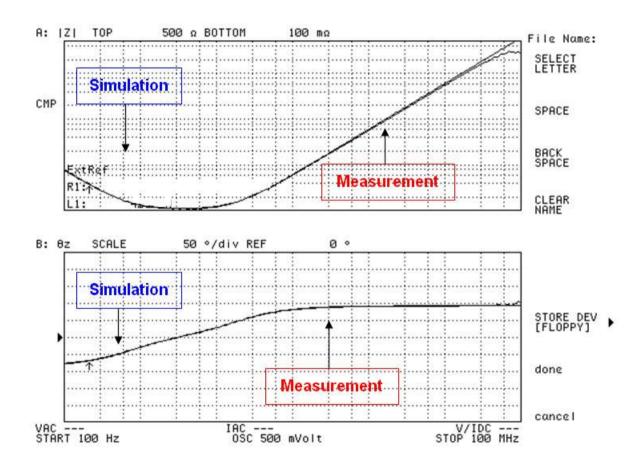
Theory: Auto Balancing Bridge Method

Optimization of Simulation

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

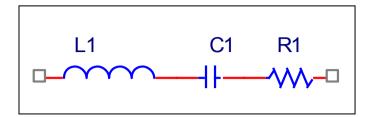
Attention)

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



| | Measurement | |
|----|-------------|--|
| R1 | | |
| C1 | | |
| L1 | | |

Equivalent circuit

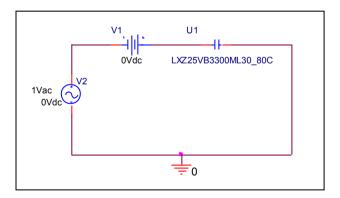


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

| Frequency (Hz) | ΙΖΙ (Ω) | | % Error |
|----------------|-------------|------------|----------------------|
| | Measurement | Simulation | / ₀ E1101 |
| 100 | 748.684m | 789.001m | 5.385 |
| 1K | 127.698m | 132.328m | 3.626 |
| 10K | 117.349m | 121.567m | 3.594 |
| 100K | 569.681m | 588.683m | 3.336 |
| 1M | 5.684 | 5.791 | 1.867 |
| 10M | 54.184 | 57.895 | 6.849 |