# **Device Modeling Report**

COMPONENTS: CAPACITOR/ ELECTROLYTIC PART NUMBER: LXZ25VB2200MK35 MANUFACTURER: Nippon Chemi-Con Corporation THERMAL: Ta= 60C (degree)



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#### 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



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## Simulation result

Frequency (Hz)	ΙΖΙ (Ω)		% Error
	Measurement	Simulation	
100	782.056m	827.736m	5.841
1K	123.008m	128.579m	4.529
10K	111.482m	113.822m	2.099
100K	560.827m	569.050m	1.466
1M	5.628	5.605	- 0.414
10M	53.713	56.042	4.337