Device Modeling Report

COMPONENTS: CAPACITOR/ ELECTROLYTIC PART NUMBER: 200MXP100MK2229 MANUFACTURER: Rubycon THERMAL: Ta= 60C (degree)



Bee Technologies Inc.

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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	70 EITOI
100	16.610	17.547	5.639
1K	1.635	1.760	7.631
10K	225.090m	231.003m	2.627
100K	549.640m	541.765m	- 1.433
1M	5.501	5.230	- 4.928
10M	52.448	52.284	- 0.313