

Device Modeling Report

COMPONENTS: INDUCTOR
PART NUMBER: FBA04HA600AB-00
MANUFACTURER: TAIYOYUDEN CO.,LTD.



Theory: Auto Balancing Bridge Method

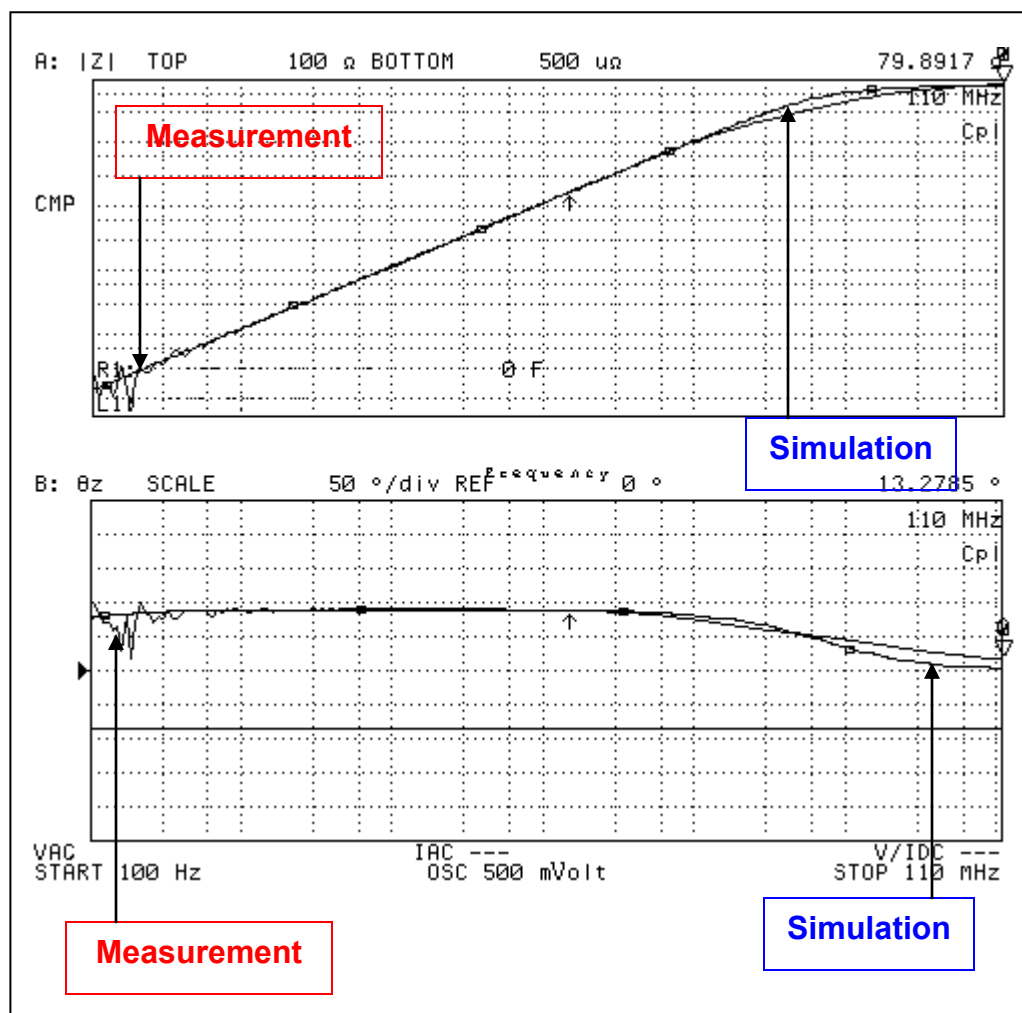
Optimization of Simulation

Range of adjustment Frequency: 1K to 100M(Hz)

Frequency vs. $|Z|$ and Frequency vs. θ_z Characteristic

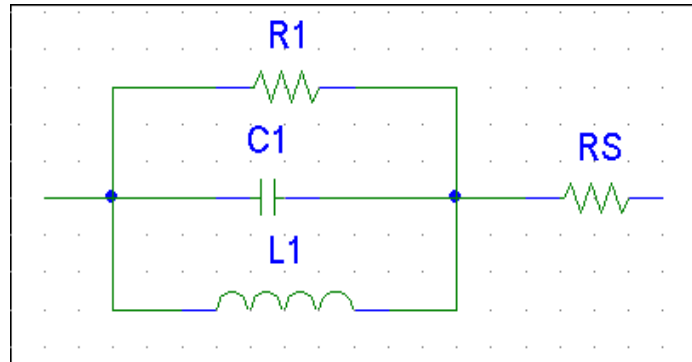
Attention)

Please use SPICE MODEL within the range from 1K to 100M(Hz)



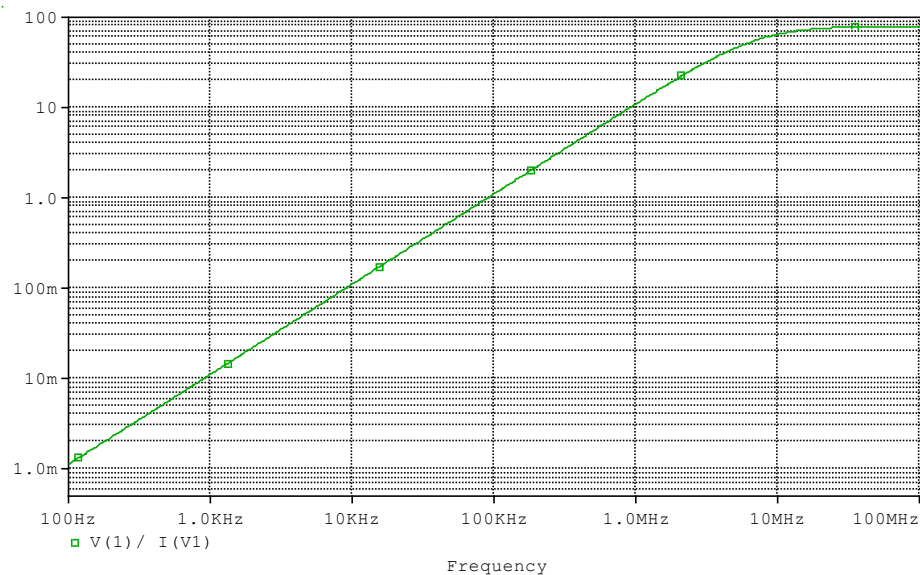
L1	
C1	
R1	

Equivalent circuit

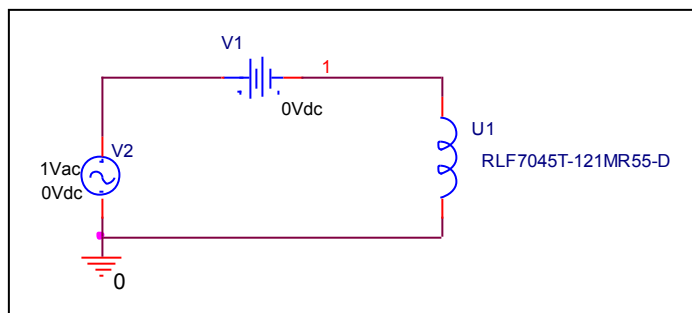


Frequency vs. $|Z|$ Characteristic

Circuit Simulation Result



Evaluation Circuit



Simulation Result

Frequency (kHz)	Impedance (Ω)		Error(%)
	Measurement	Simulation	
1.000	0.011	0.011	-0.491
10.000	0.112	0.111	-0.508
100.000	1.110	1.114	0.378
1,000.000	10.700	11.036	3.140
10,000.000	60.000	64.937	8.228
100,000.000	79.908	79.703	-0.256