Device Modeling Report

COMPONENTS: DC MOTOR
PART NUMBER: RS-540SH
MANUFACTURER: MABUCHI MOTOR

Bee Technologies Inc.

Theory: Auto Balancing Bridge Method
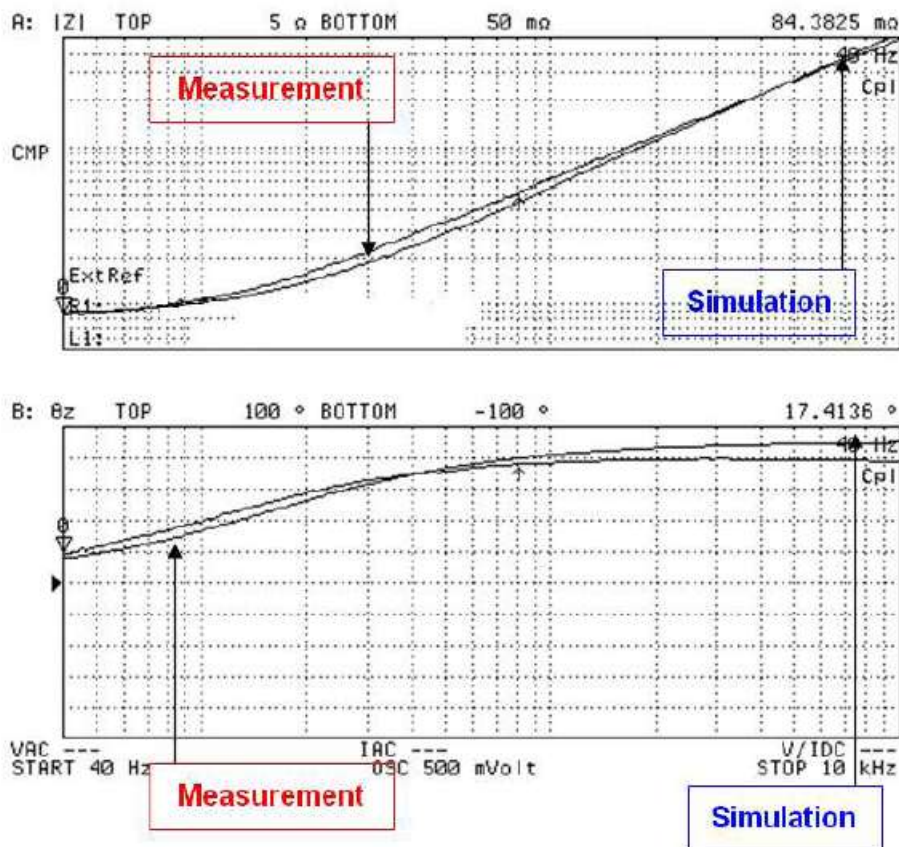
Optimization of Simulation

Range of adjustment Frequency:40 to10K(Hz)

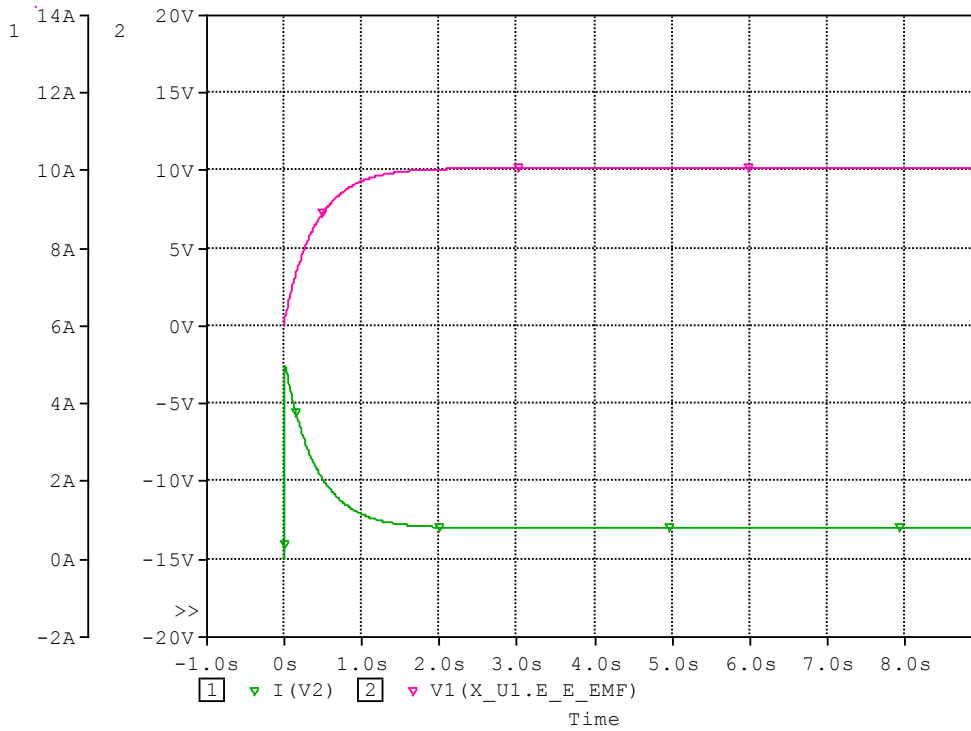Frequency vs.|Z| and Frequency vs. θ z Characteristic

Attention)

Please use SPICE MODEL within the range from 40 to 10K(Hz) for best accuracy.

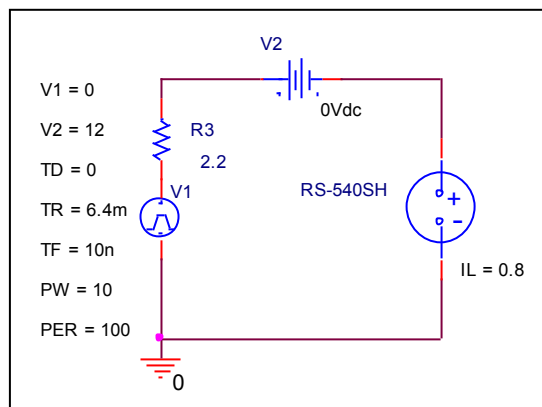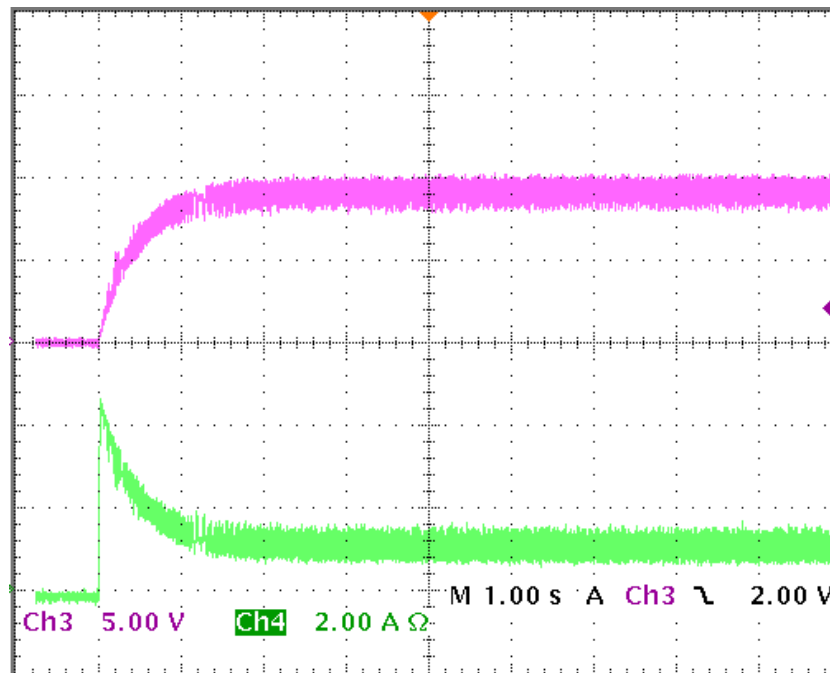| LM	
RS	
CP	

DC Motor Voltage and Current Characteristics at No load

Circuit simulation result

Evaluation circuit

DC Motor Voltage and Current Characteristics (No load)   Reference

Ch3 5.00 V   Ch4 2.00 A Ω   M 1.00 s   A Ch3 ⅃   2.00 V

DC Motor Voltage and Current Characteristics at Fan load

Circuit simulation result

Evaluation circuit

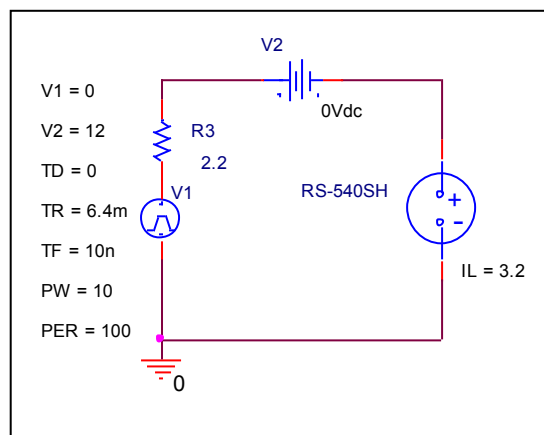# DC Motor Voltage and Current Characteristics (Fan load) Reference

Ch3 5.00 V   Ch4 2.00 A Ω   M 1.00 s   A   Ch3 ⌐   2.00 V