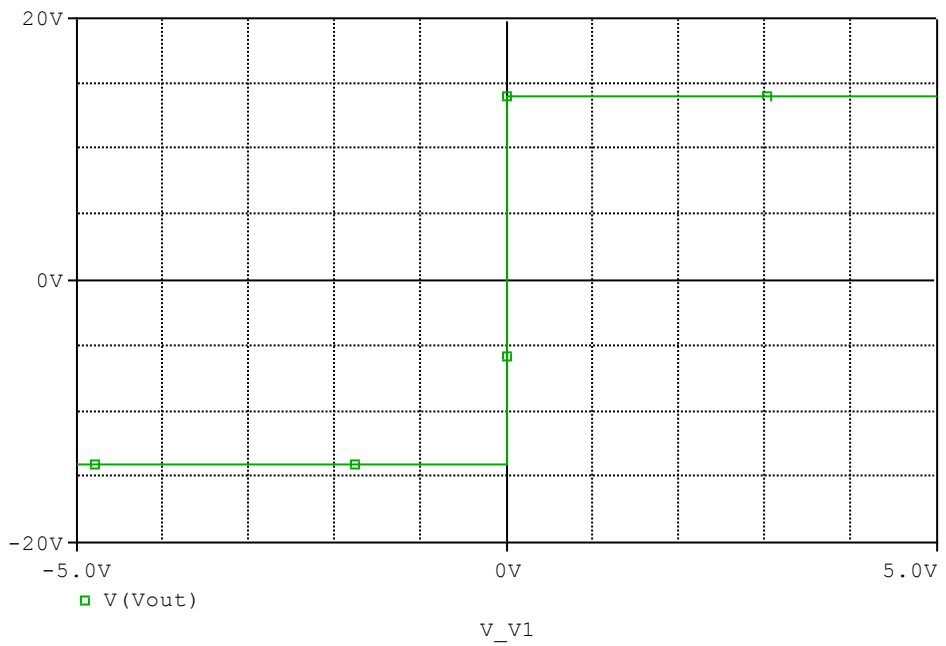
Device Modeling Report

COMPONENTS: OPERATIONAL AMPLIFIER
PART NUMBER:NJM2043
MANUFACTURER: NEW JAPAN RADIO CO.,LTD

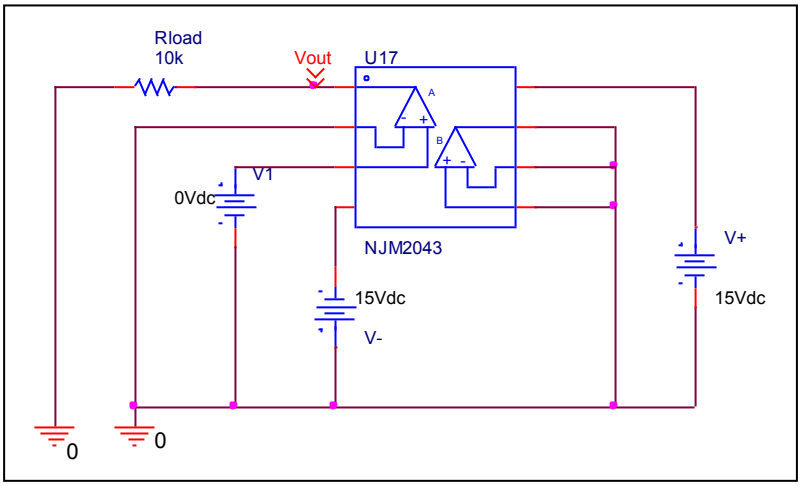
Bee Technologies Inc.

Output Voltage Swing

Simulation result



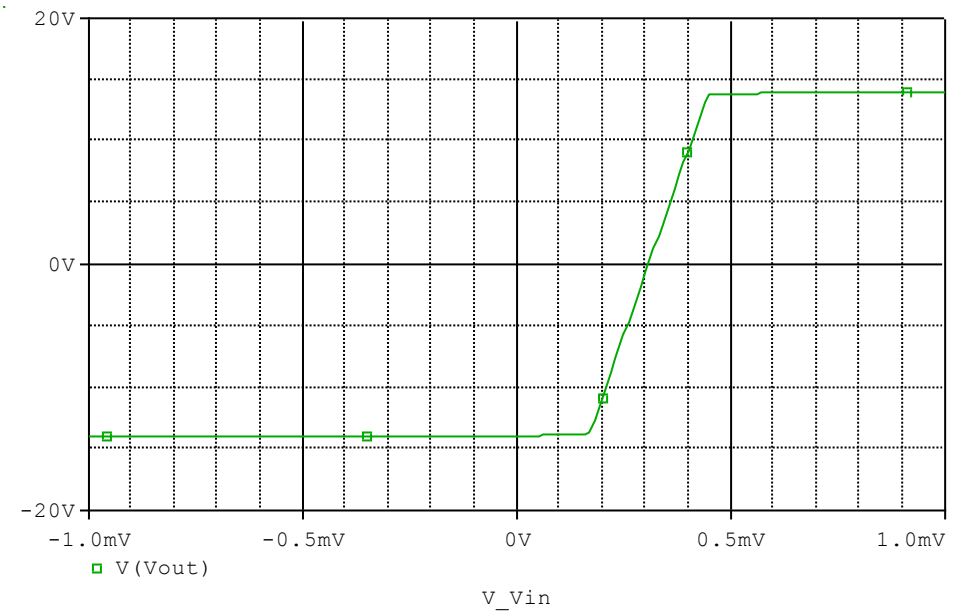
Evaluation circuit



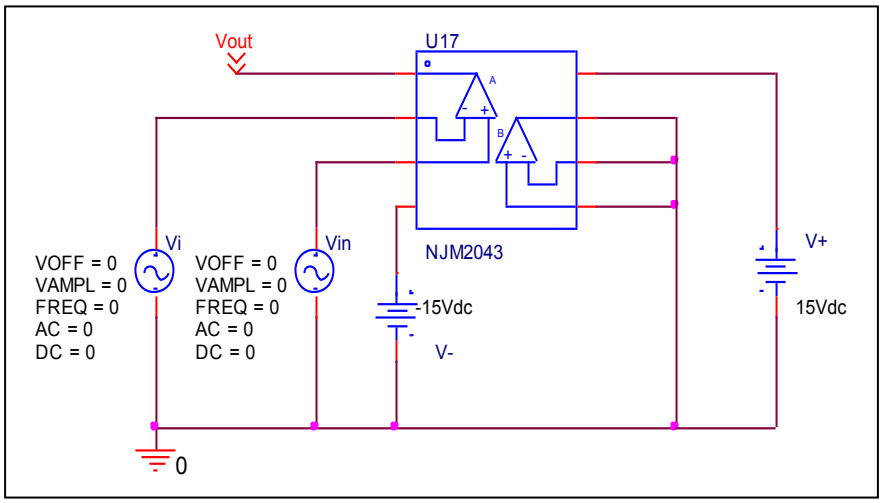
Output Voltage Swing	Data sheet	Simulation	%Error
+Vout(V)	+14.000	+14.000	0.000
-Vout(V)	-14.000	-14.000	0.000

Input Offset Voltage

Simulation result



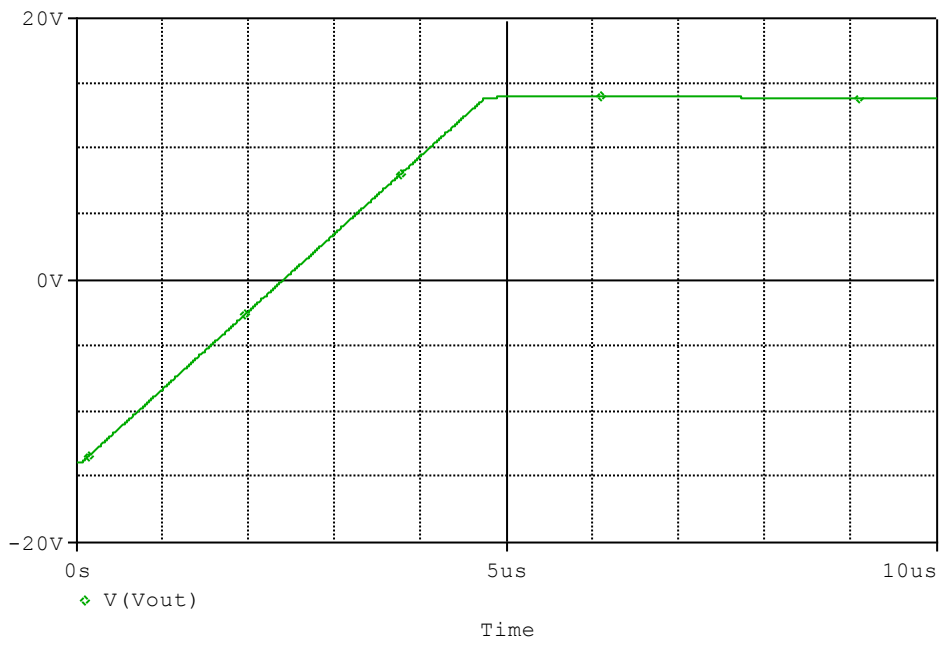
Evaluation circuit



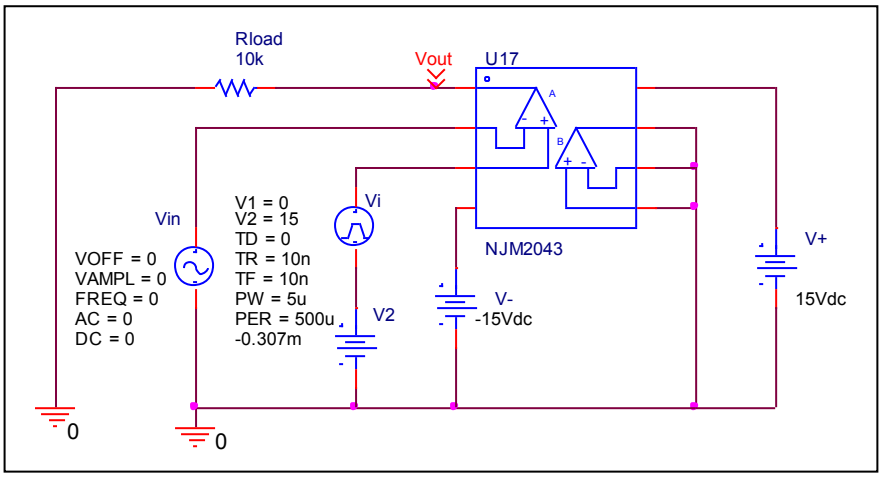
Vos	Measurement		Simulation		Error	
	0.300	mV	0.307	mV	2.333	%

Slew Rate

Simulation result



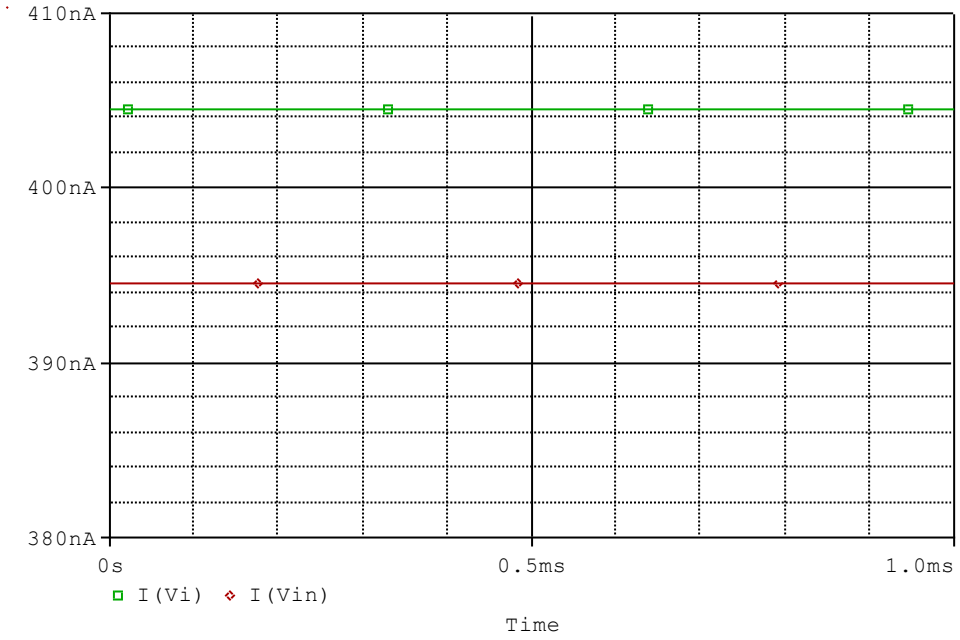
Evaluation circuit



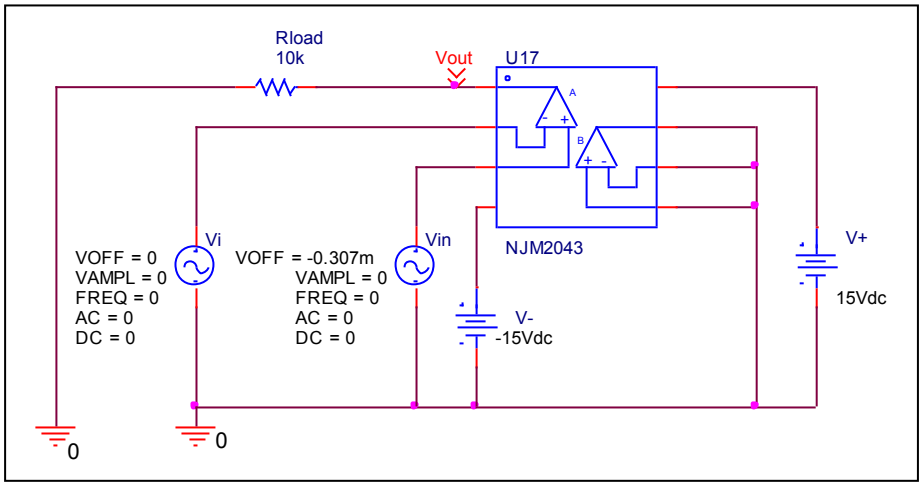
Slew Rate(v/us)	Data sheet	Simulation	%Error
	6.000V/us	5.935V/us	-1.083

Input current

Simulation result



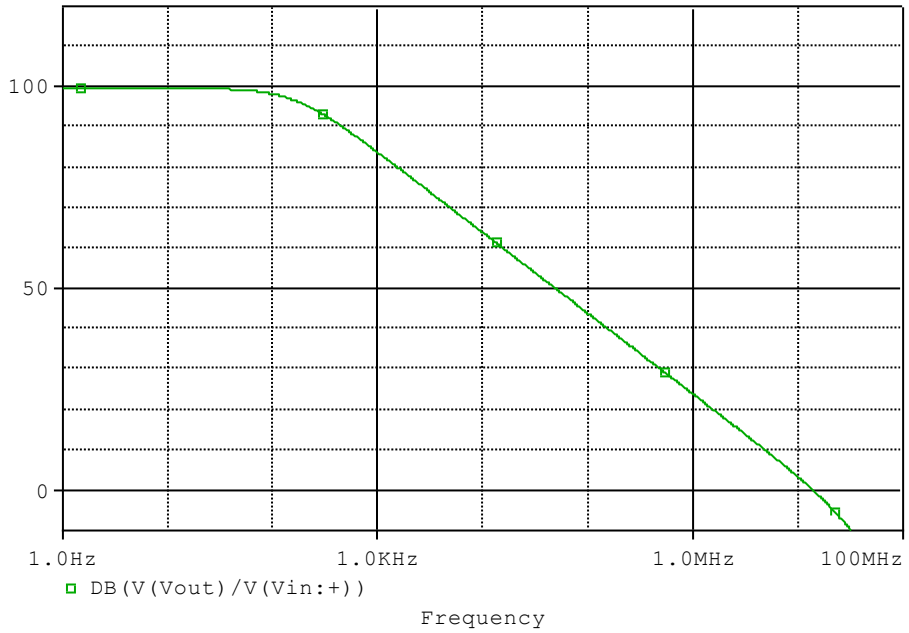
Evaluation circuit



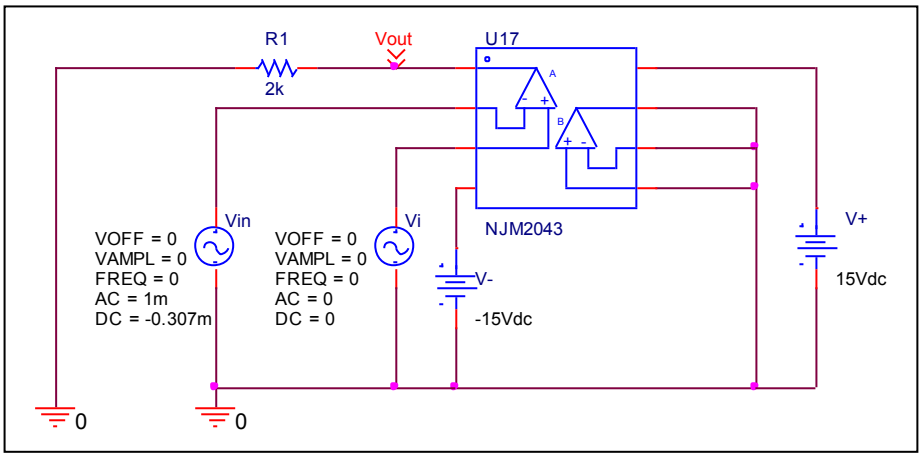
	Data sheet	Simulation	%Error
Ib(nA)	400.000	399.561	-0.110
Ibos(nA)	10.000	9.993	-0.070

Open Loop Voltage Gain vs. Frequency

Simulation result



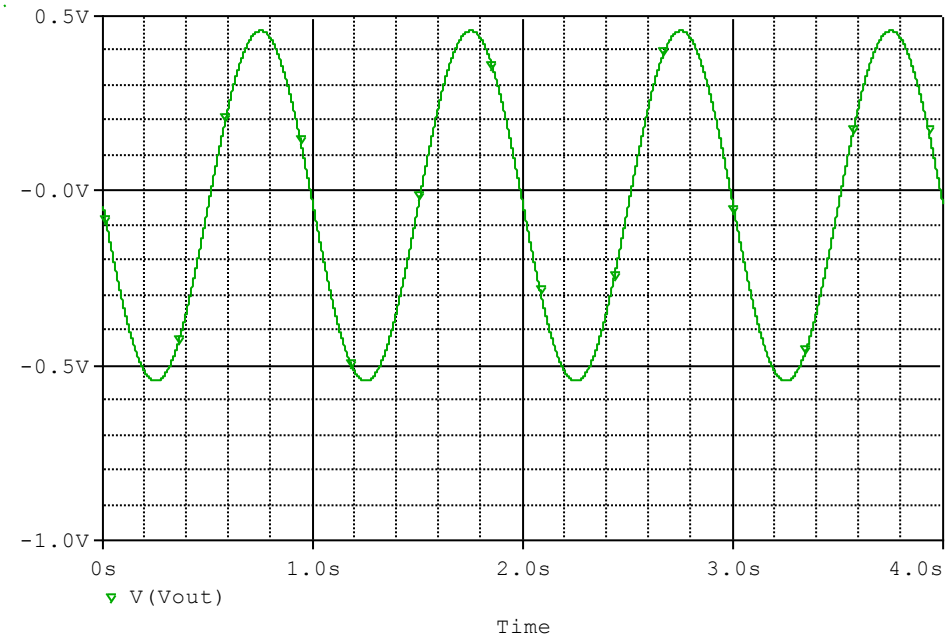
Evaluation circuit



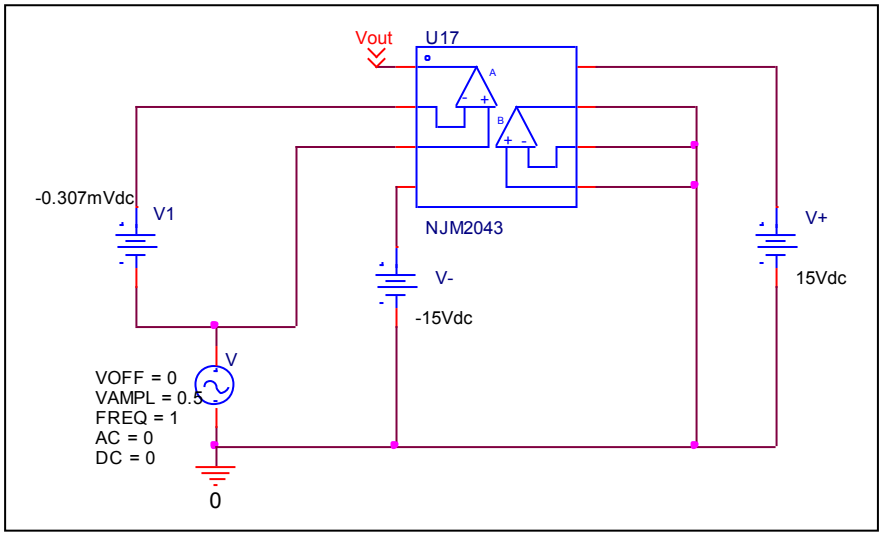
	Data sheet	Simulation	%Error
f-0dB(MHz)	14.000	13.895	-0.750
Av-dc	100.000	99.655	-0.345

Common-Mode Rejection Voltage gain

Simulation result



Evaluation circuit



Common Mode Reject Ratio=96105.888/1.001=96009.879

CMRR	Data sheet	Simulation	%Error
	100.000	99.646	-0.354