

Device Modeling Report

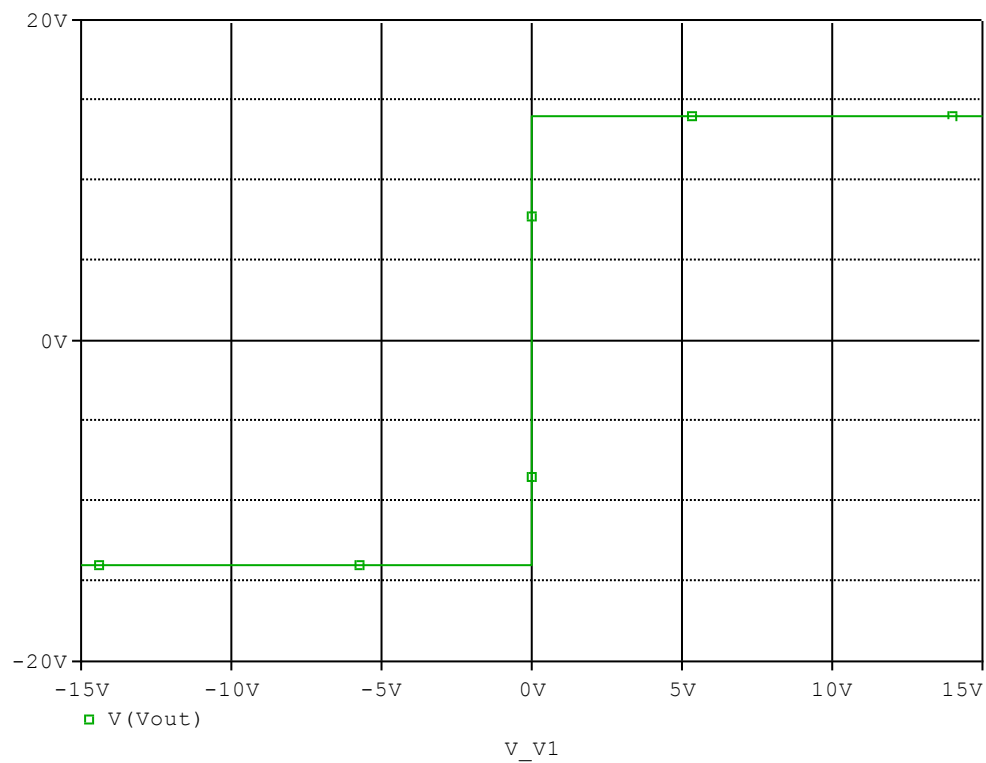
COMPONENTS: OPERATIONAL AMPLIFIER
PART NUMBER: NJM2041
MANUFACTURER: NEW JAPAN RADIO CO.,LTD



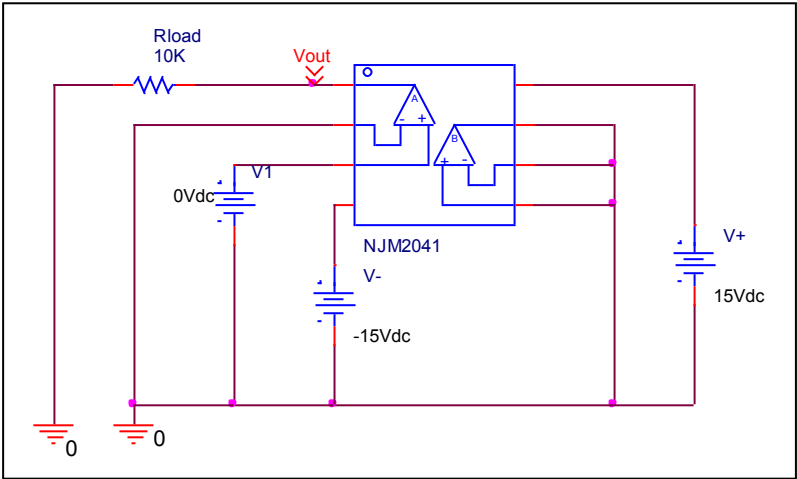
Bee Technologies Inc.

Output Voltage Swing

Simulation result



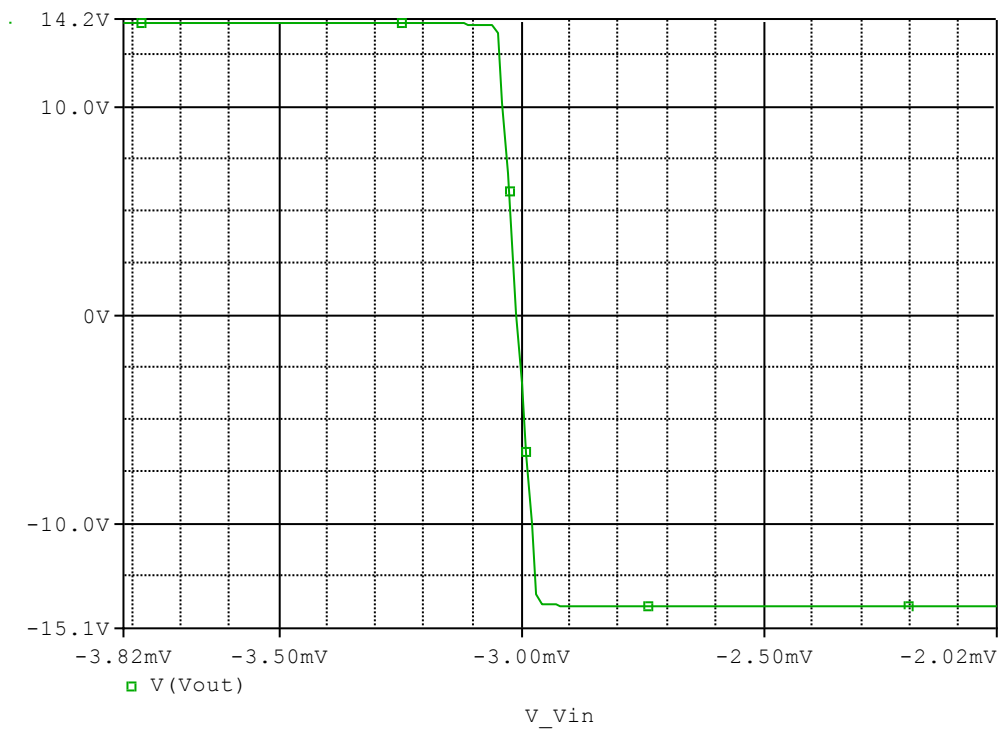
Evaluation circuit



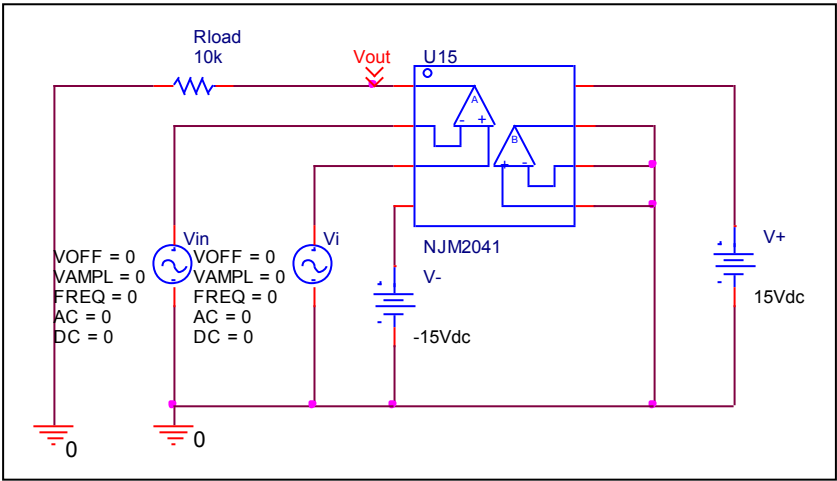
Output Voltage Swing	Data sheet	Simulation	%Error
+Vout(V)	+14.000	13.996	0.028
-Vout(V)	-14.000	-13.996	0.028

Input Offset Voltage

Simulation result



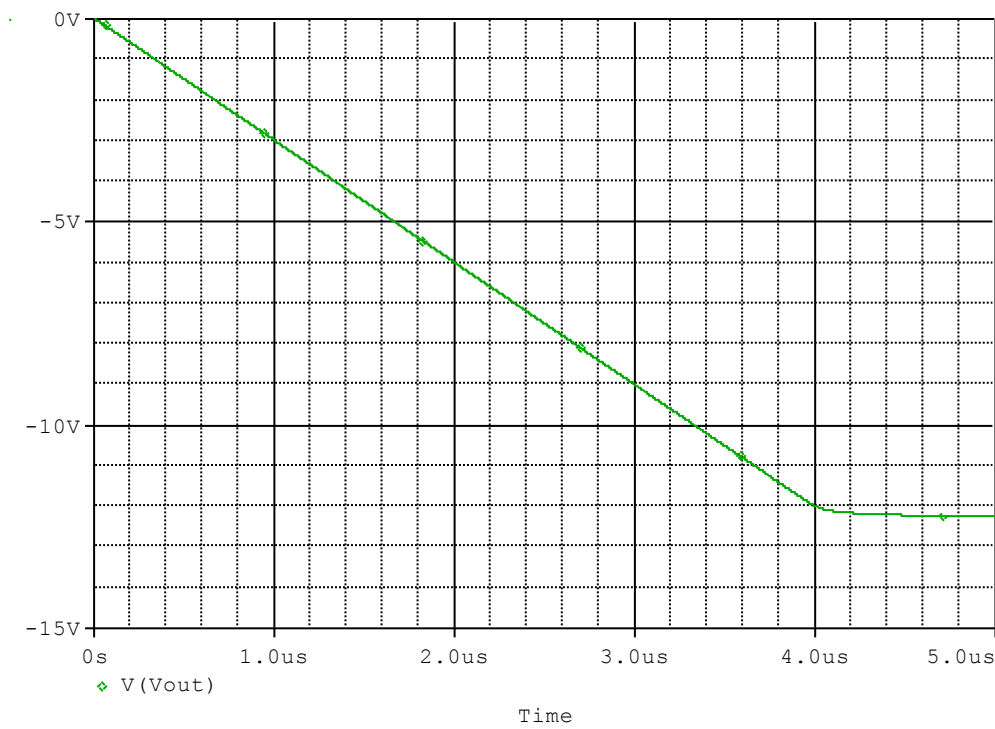
Evaluation circuit



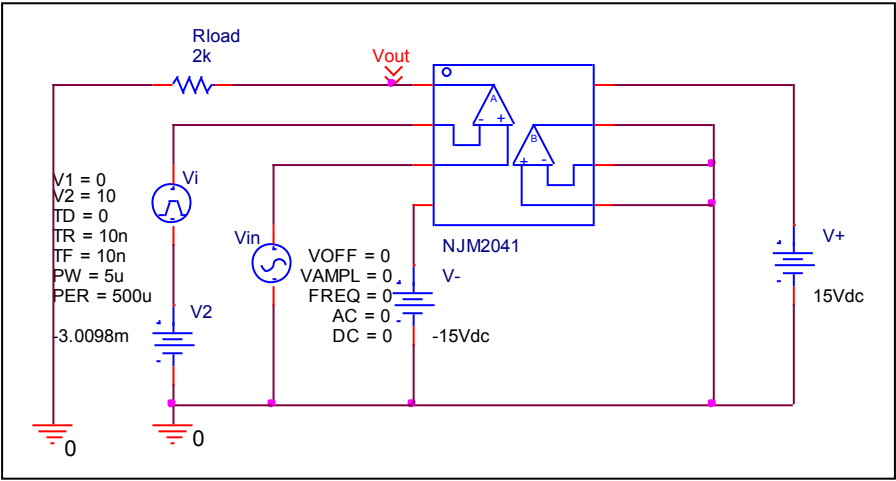
Vos	Measurement		Simulation		Error	
	3.000	mV	3.009	mV	0.326	%

Slew Rate

Simulation result



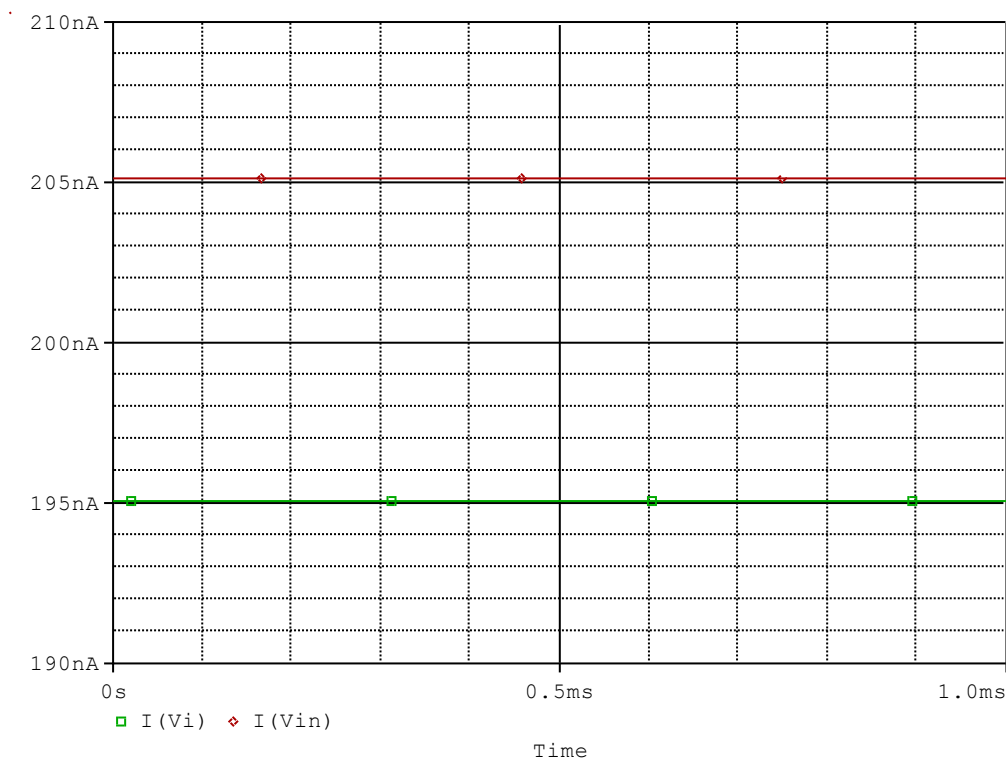
Evaluation circuit



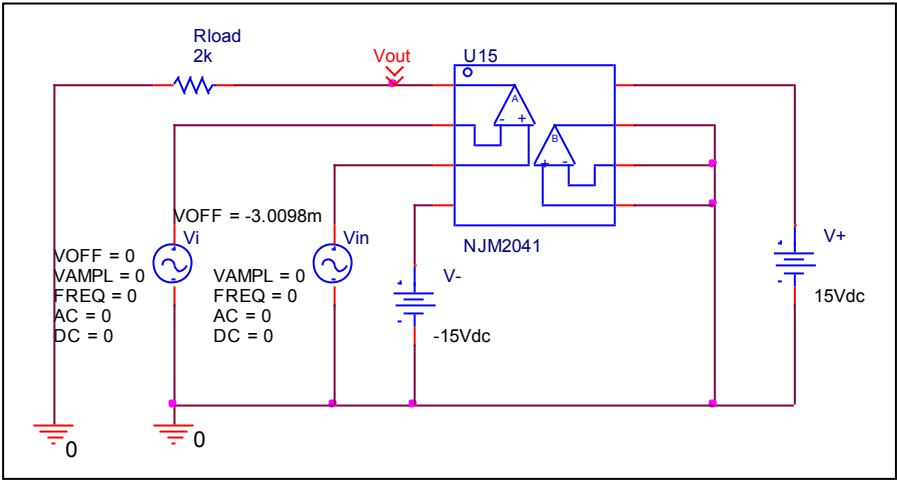
Slew Rate(v/us)	Data sheet	Simulation	%Error
	3.000	3.009	0.300

Input current

Simulation result



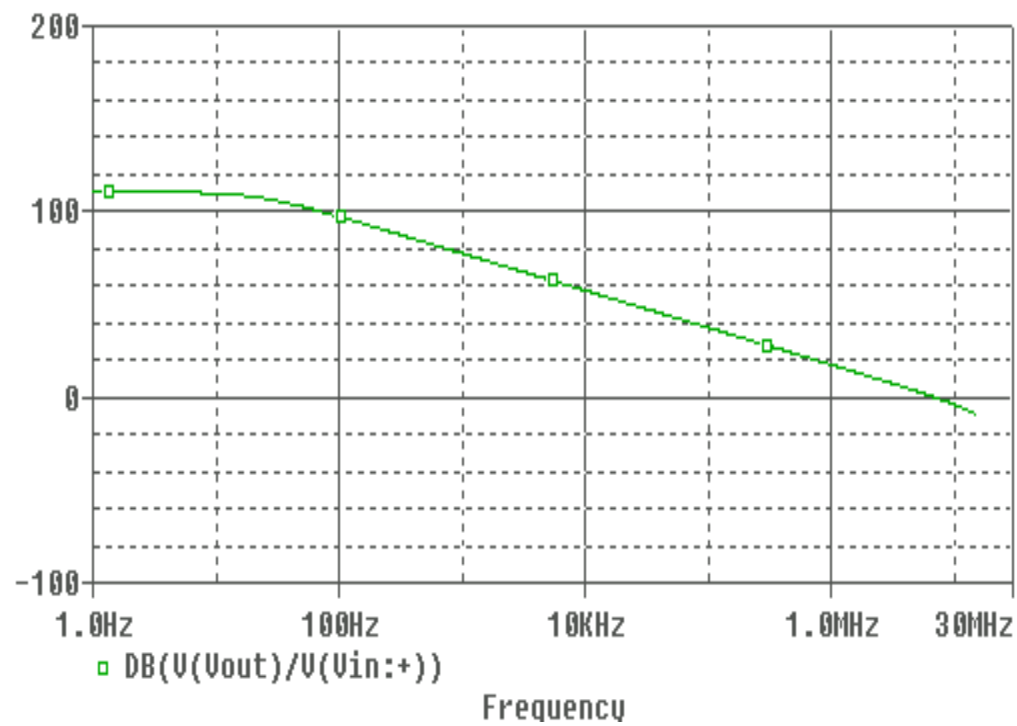
Evaluation circuit



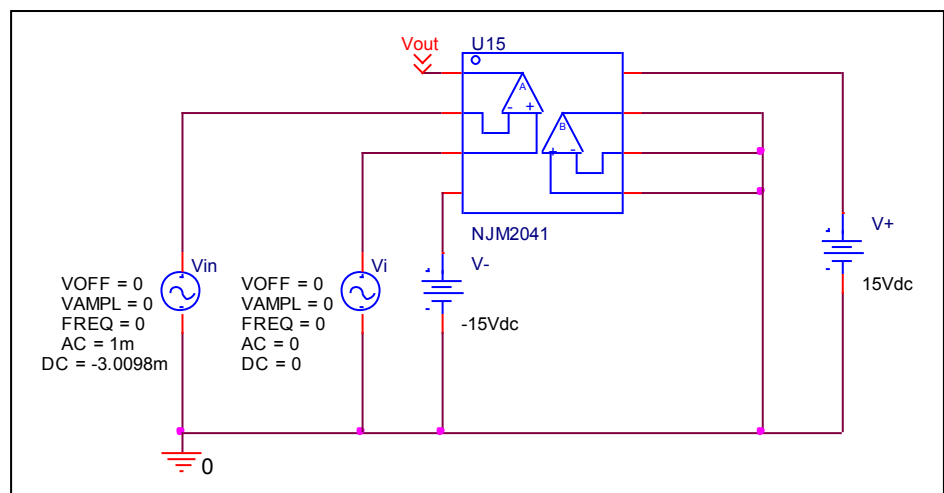
	Data sheet	Simulation	%Error
Ib(nA)	200.000	200.085	0.042
Ibos(nA)	10.000	10.037	0.370

Open Loop Voltage Gain vs. Frequency

Simulation result



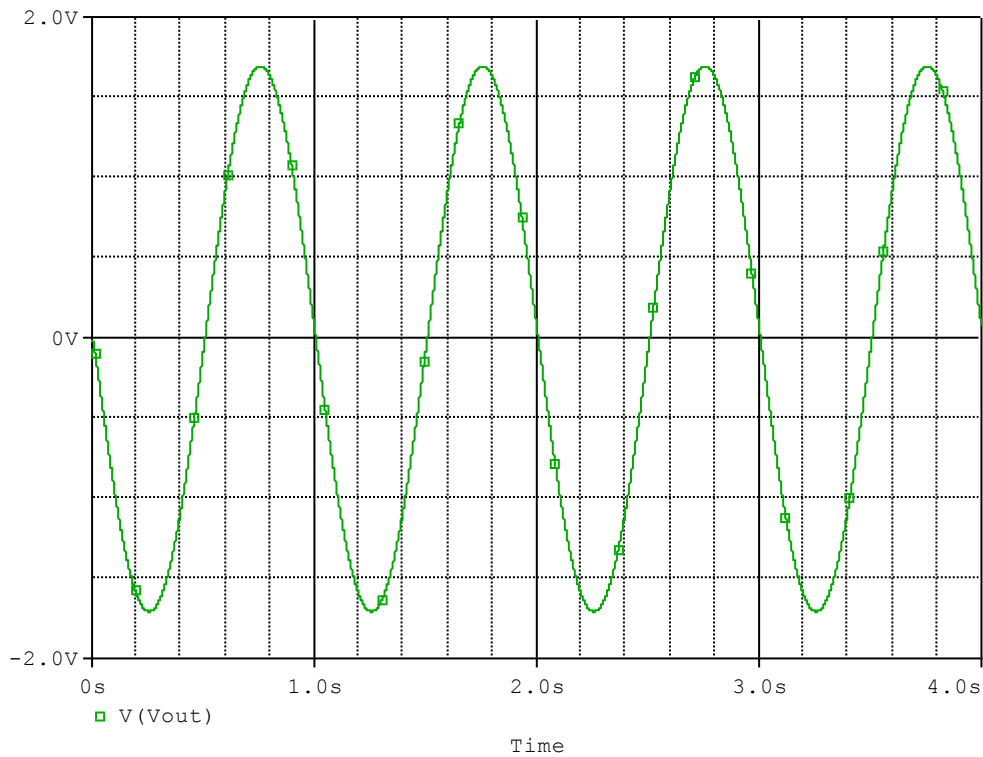
Evaluation circuit



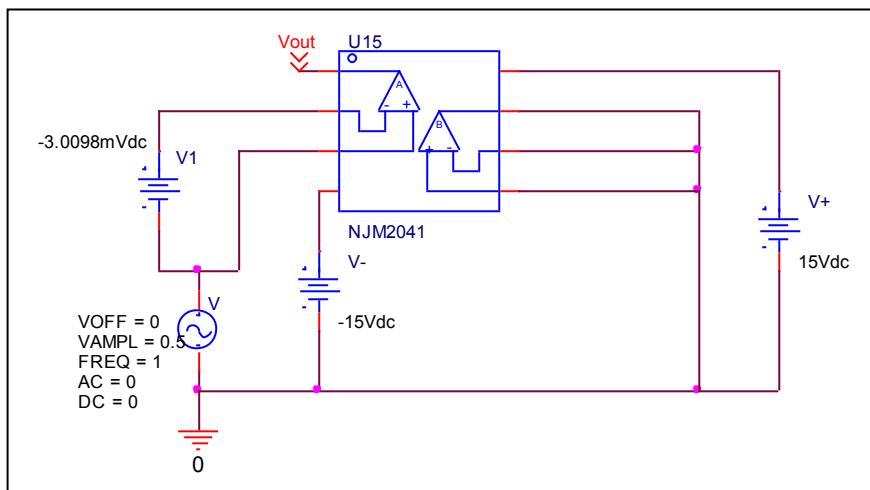
	Data sheet	Simulation	%Error
f-0dB(MHz)	7.000	6.960	0.571
Av-dc(dB)	110.000	110.062	0.056

Common-Mode Rejection Voltage gain

Simulation result



Evaluation circuit



CMRR	Data sheet	Simulation	%Error
	100.000	99.417	-0.583