

Device Modeling Report

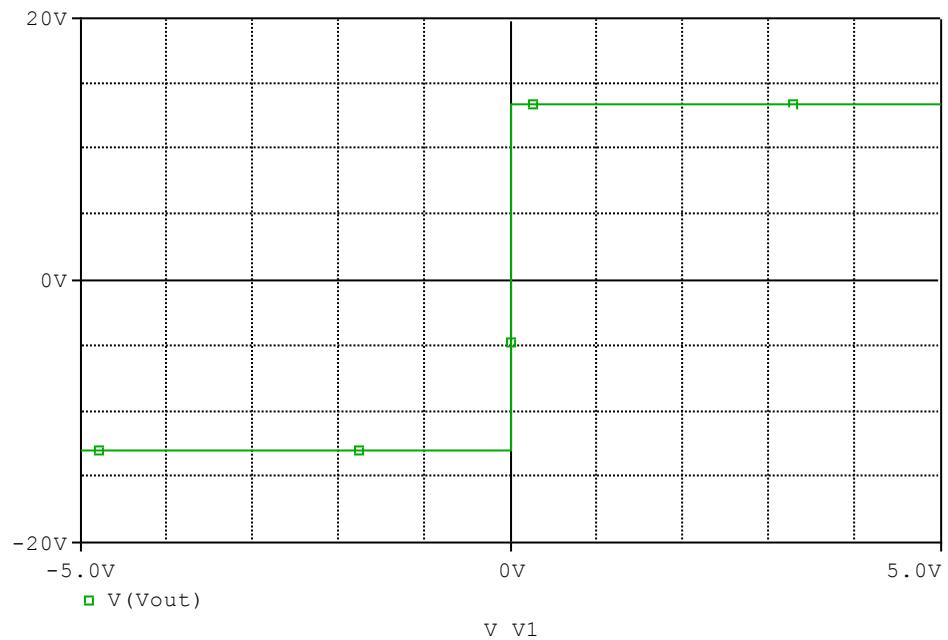
COMPONENTS: OPERATIONAL AMPLIFIER
PART NUMBER:NJM2082
MANUFACTURER: NEW JAPAN RADIO CO.,LTD



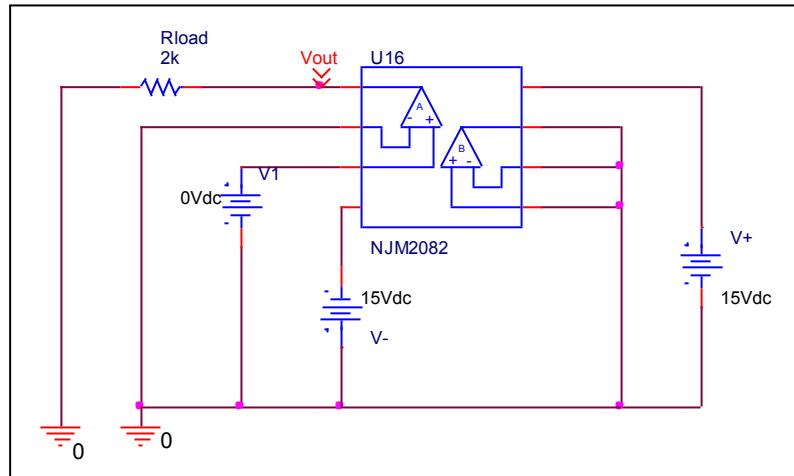
Bee Technologies Inc.

Output Voltage Swing

Simulation result



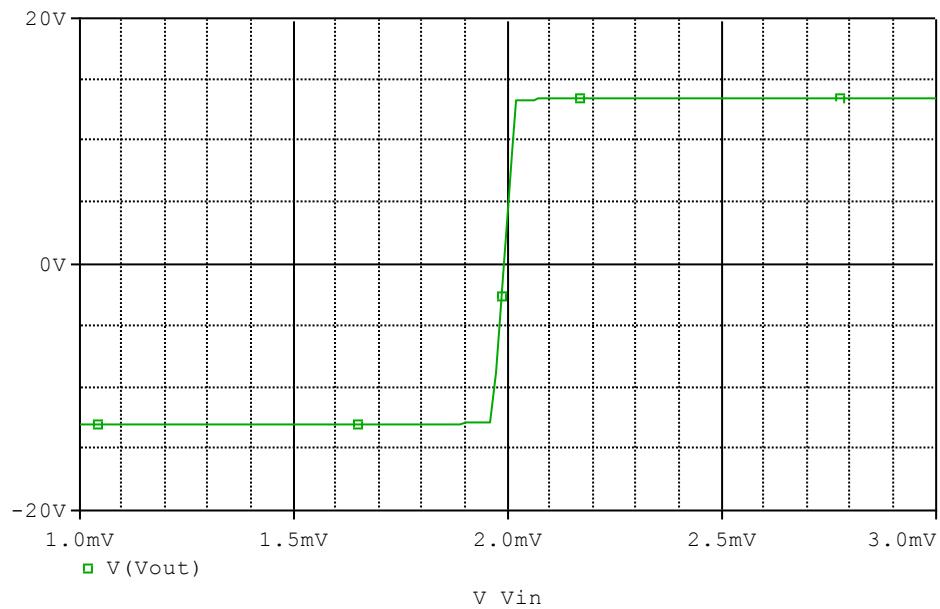
Evaluation circuit



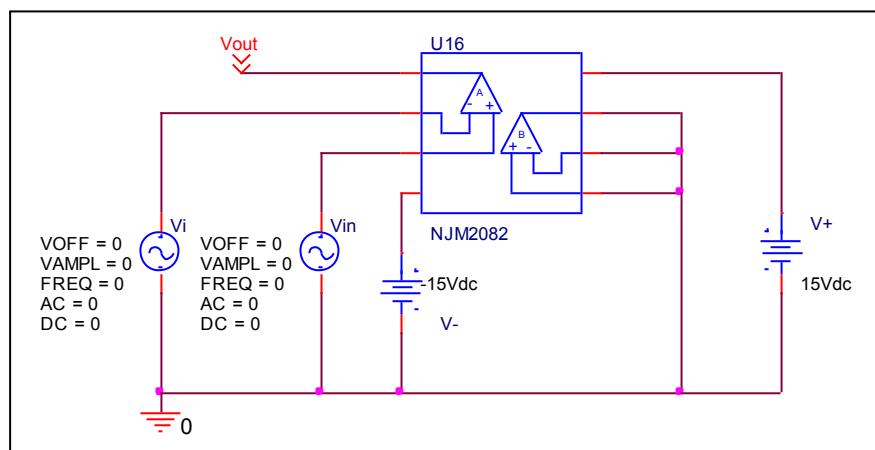
Output Voltage Swing	Data sheet	Simulation	%Error
+Vout(V)	+13.500	+13.491	-0.067
-Vout(V)	-13.000	-12.991	-0.069

Input Offset Voltage

Simulation result



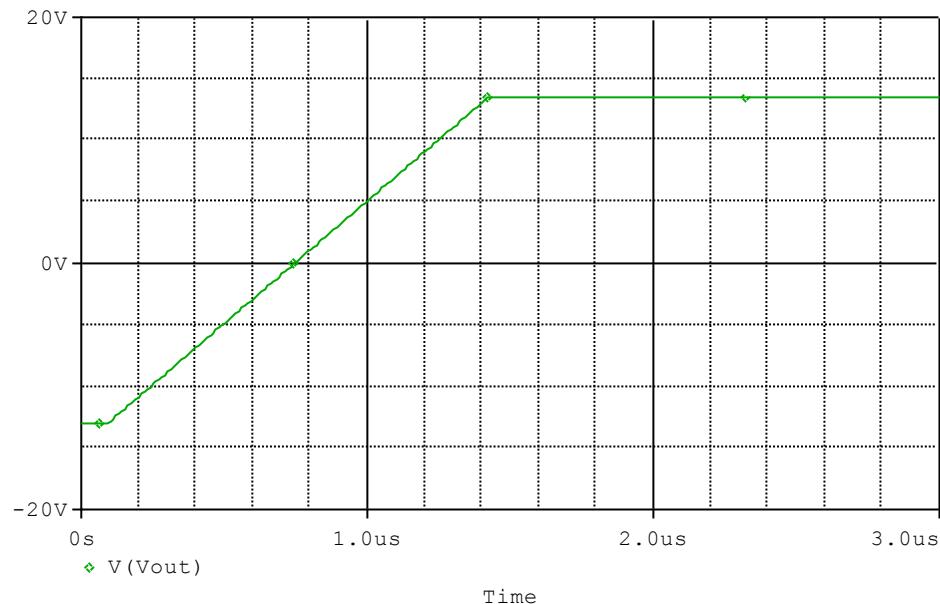
Evaluation circuit



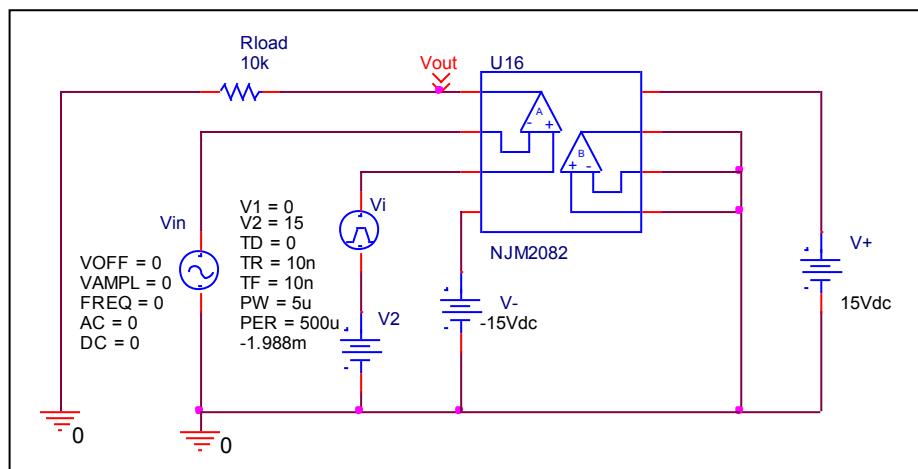
Vos	Measurement		Simulation		Error	
	2.000	mV	1.988	mV	-0.600	%

Slew Rate, +SR, -SR

Simulation result



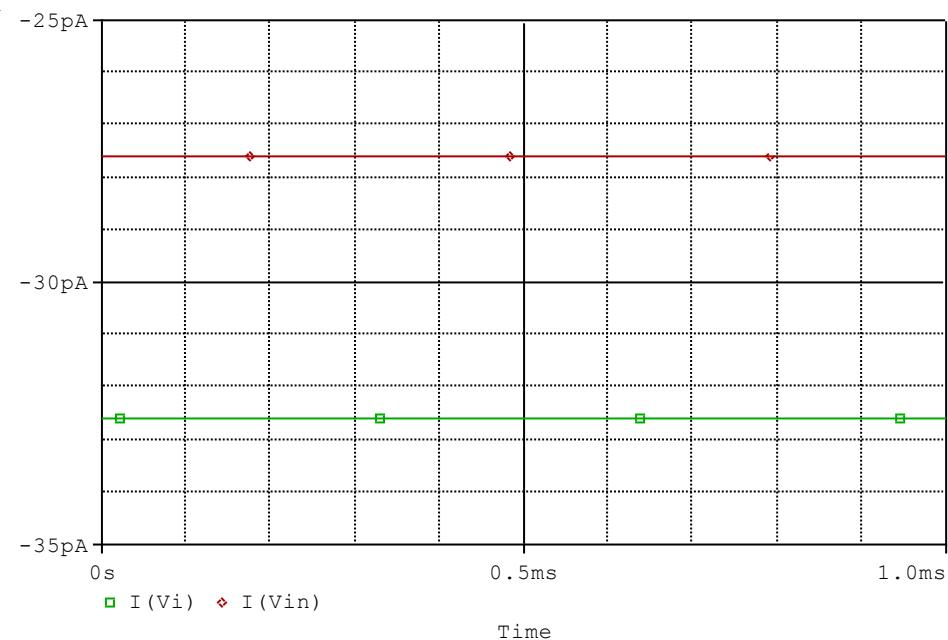
Evaluation circuit



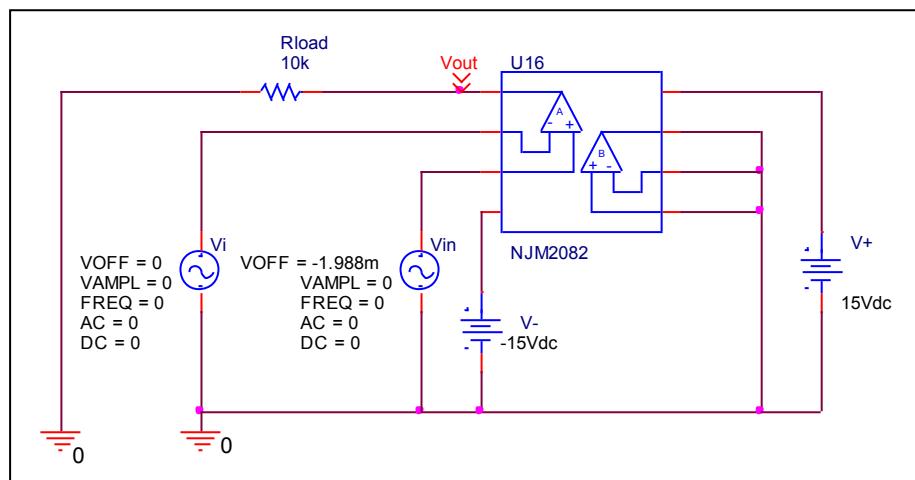
Slew Rate(v/us)	Data sheet	Simulation	%Error
	20.000V/us	19.916V/us	-0.420

Input current Ib, Ibos

Simulation result



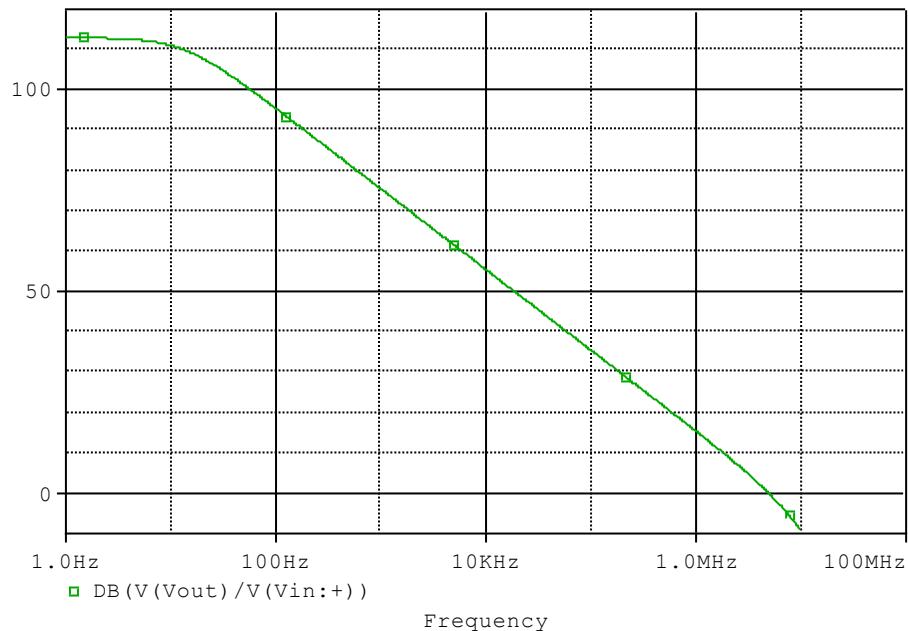
Evaluation circuit



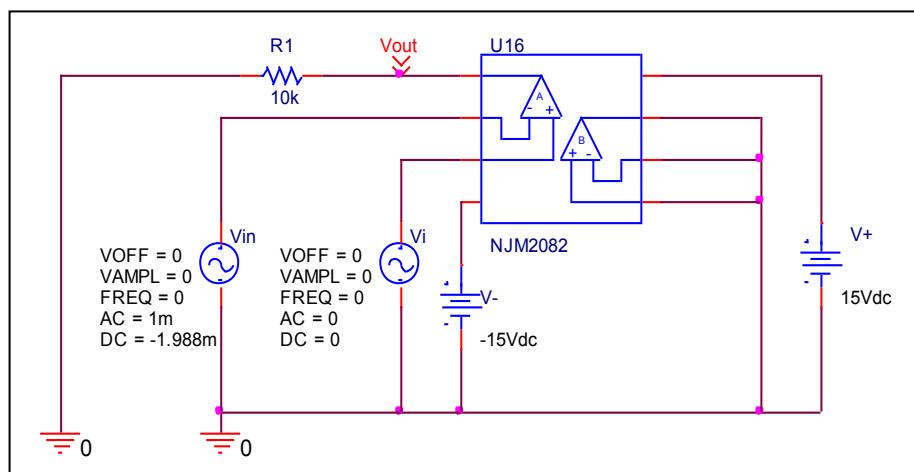
	Data sheet	Simulation	%Error
Ib(pA)	30.000	30.000	0.000
Ibos(pA)	5.000	5.000	0.000

Open Loop Voltage Gain vs. Frequency , Av-dc, f-0dB

Simulation result



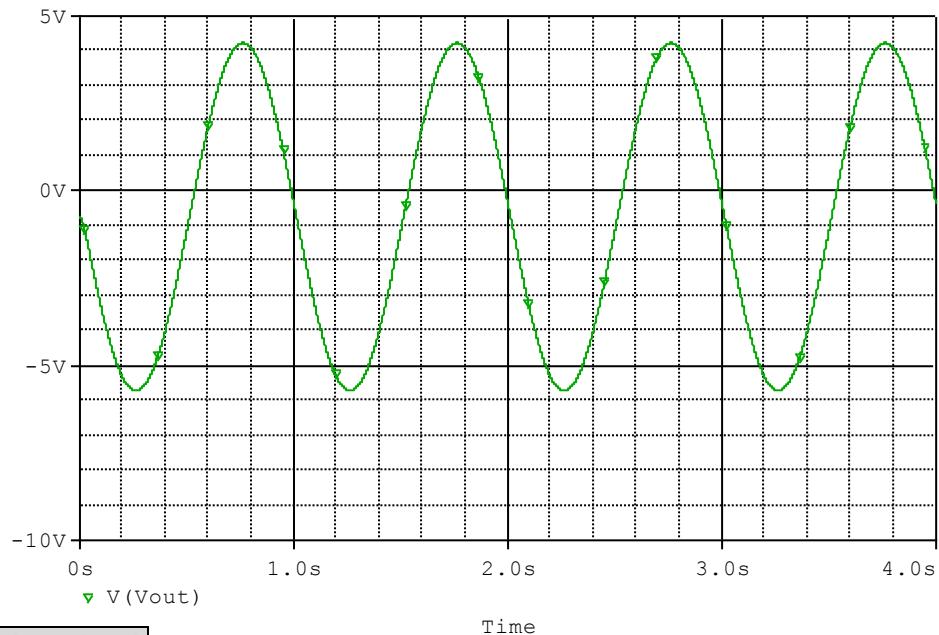
Evaluation circuit



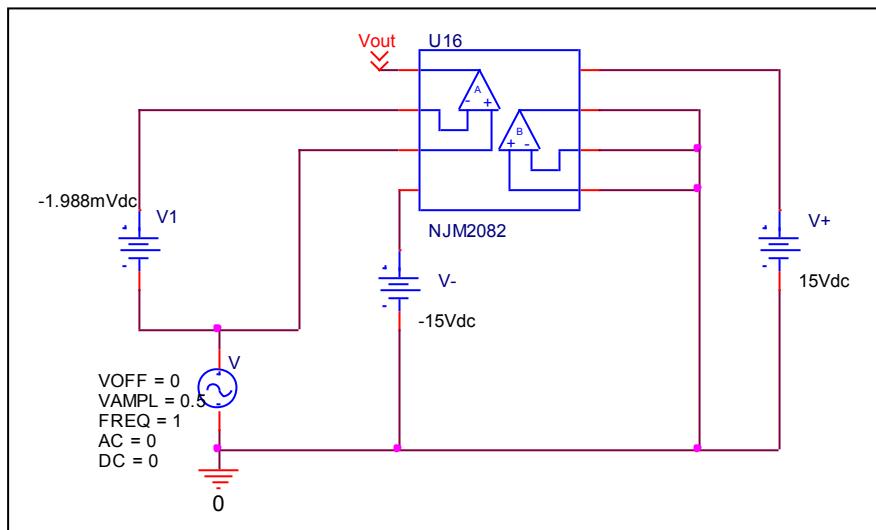
	Data sheet	Simulation	%Error
f-0dB(MHz)	5.000	5.067	1.340
Av-dc	110.000	112.931	2.665

Common-Mode Rejection Voltage gain

Simulation result



Evaluation circuit



Common Mode Reject Ratio = $441570.447 / 9.945 = 44401.251$

CMRR	Data sheet	Simulation	%Error
	90.000	92.947	3.274