

Device Modeling Report

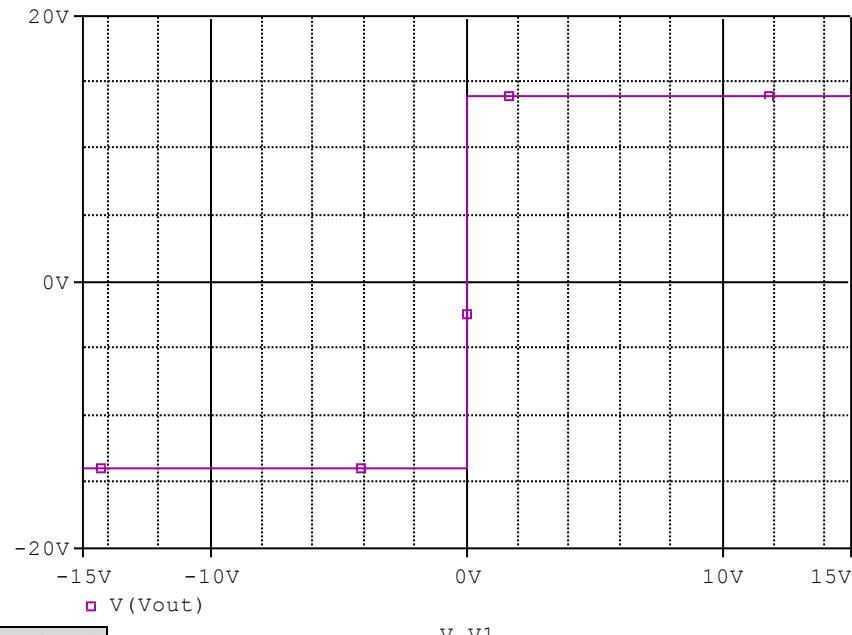
COMPONENTS: OPERATIONAL AMPLIFIER
PART NUMBER:NJM2120
MANUFACTURER: NEW JAPAN RADIO CO.,LTD



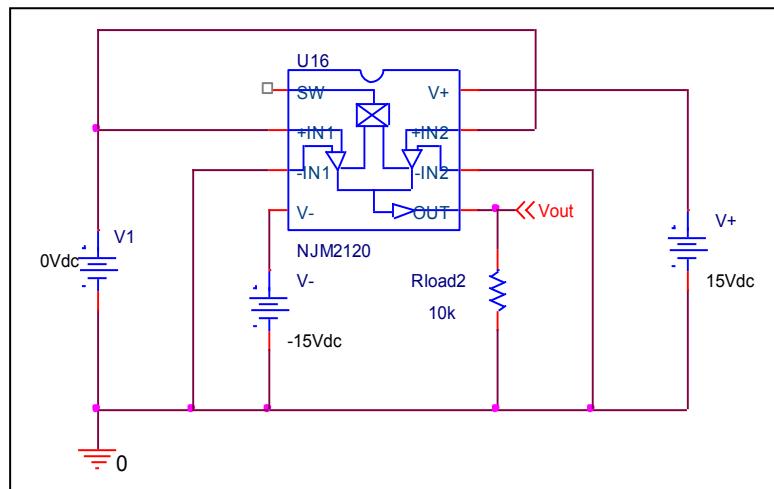
Bee Technologies Inc.

Output Voltage Swing

Simulation result



Evaluation circuit

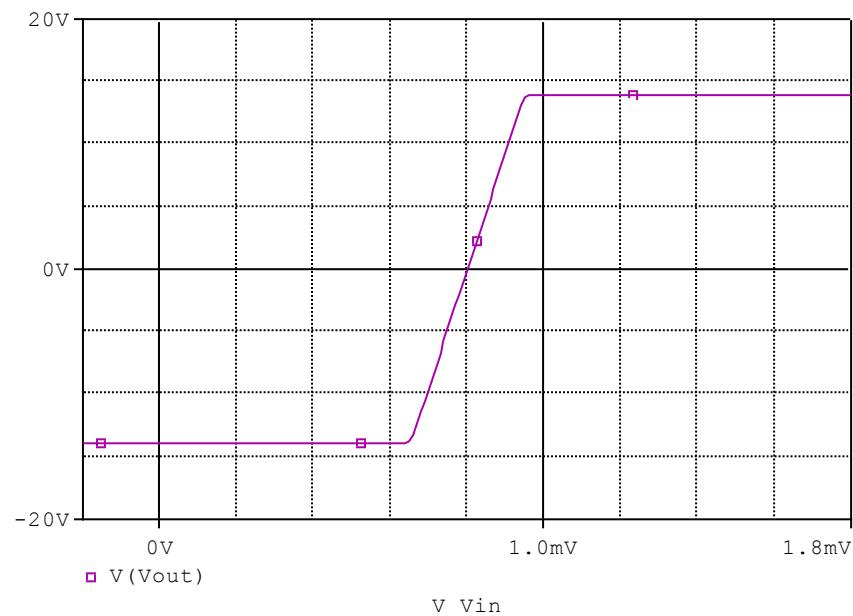


Comparison table

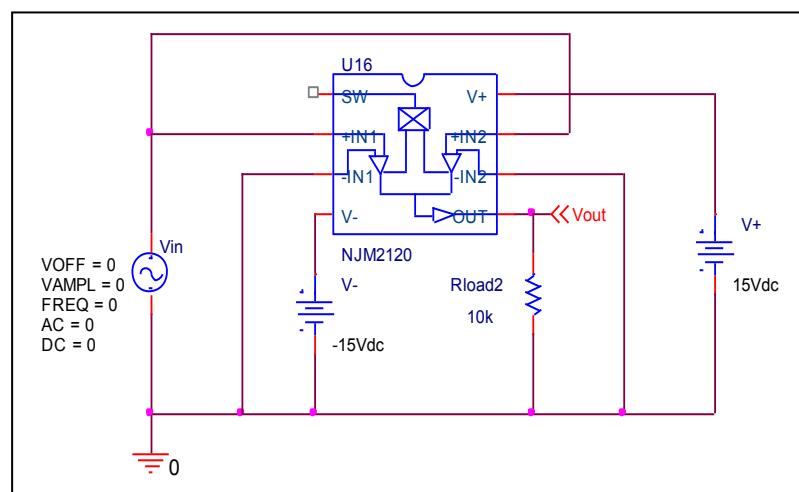
Output Voltage Swing	Data sheet	Simulation	%Error
VOM	+/-14	+/-14	0

Input Offset Voltage

Simulation result



Evaluation circuit

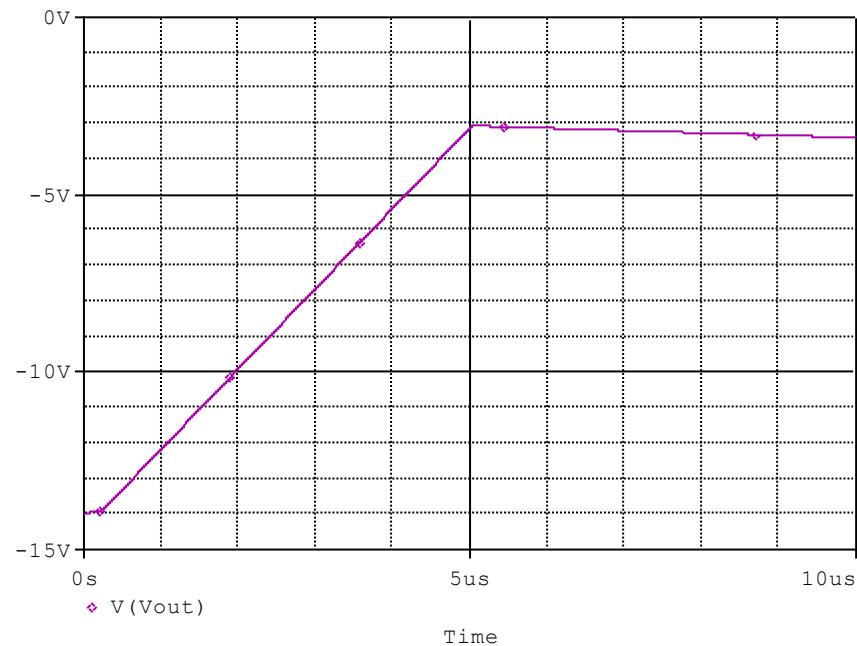


Comparison table

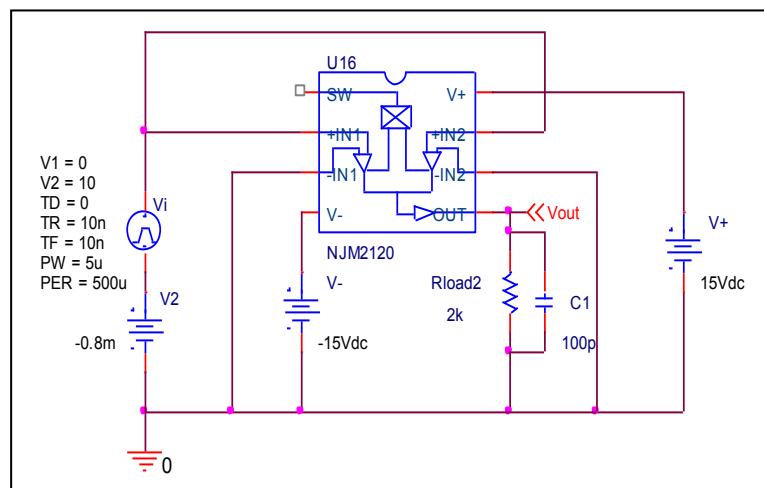
V _{io}	Measurement		Simulation		Error	
	0.8	mV	0.801	mV	0.125	%

Slew Rate

Simulation result



Evaluation circuit

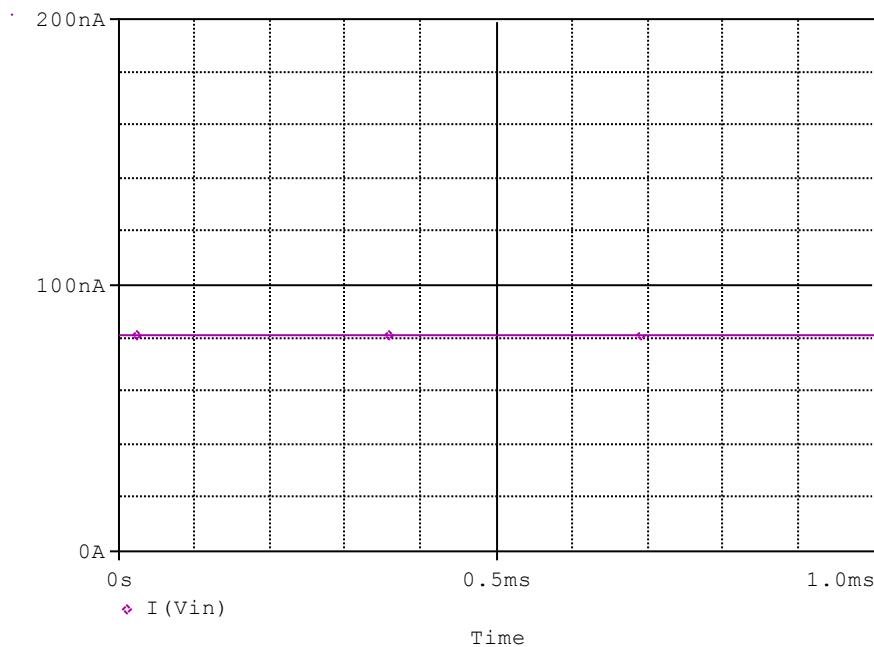


Comparison table

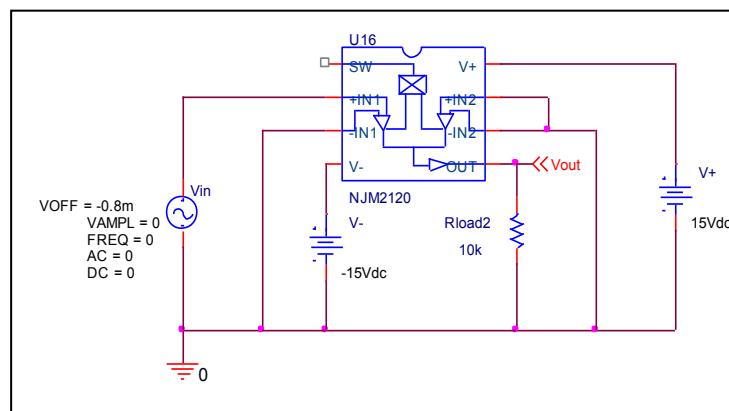
Slew Rate(v/us)	Data sheet	Simulation	%Error
	2.2	2.26	2.72

Input current

Simulation result



Evaluation circuit



Comparison table

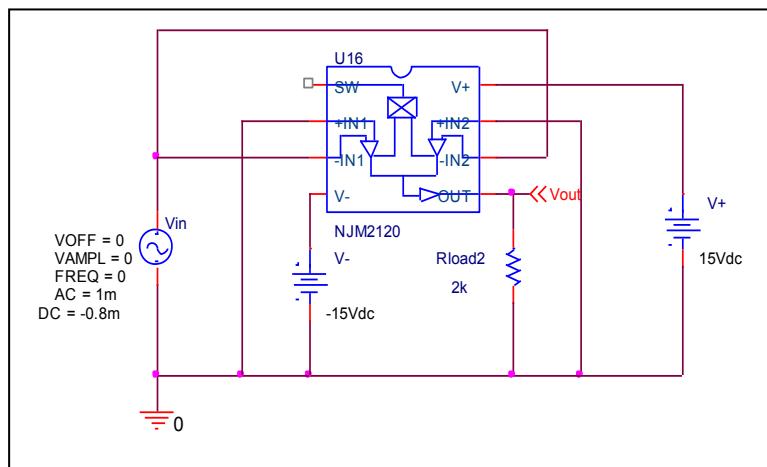
	Data sheet	Simulation	%Error
$I_b(nA)$	80	81.061	1.326

Open Loop Voltage Gain vs. Frequency

Simulation result



Evaluation circuit



Comparison table

	Data sheet	Simulation	%Error
f-0dB(MHz)	7	6.76	-3.428
Av-dc	100	99.35	-0.65