

Device Modeling Report

COMPONENTS : 2-Input 1-Output Stereo Audio Selector

PART NUMBER : NJM2752

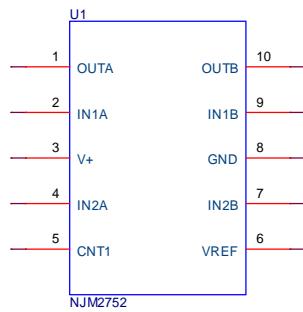
MANUFACTURE : NEW JAPAN RADIO CO.,LTD

TARGET : PSPICE

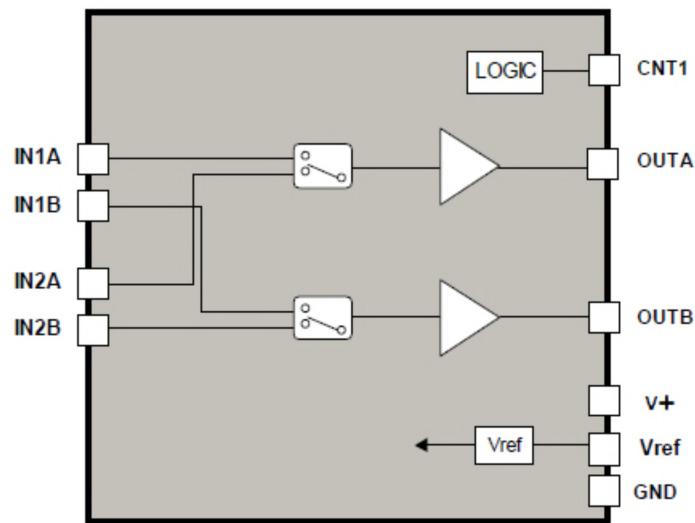


New Japan Radio Co., Ltd.

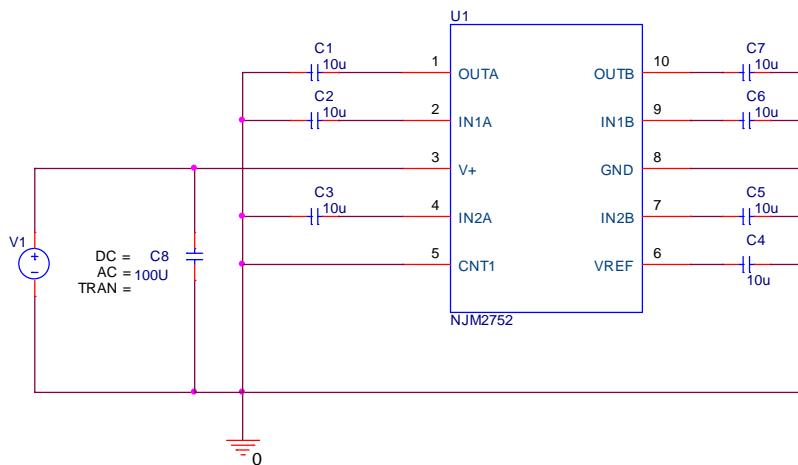
Symbol



Simple Equivalent Circuit



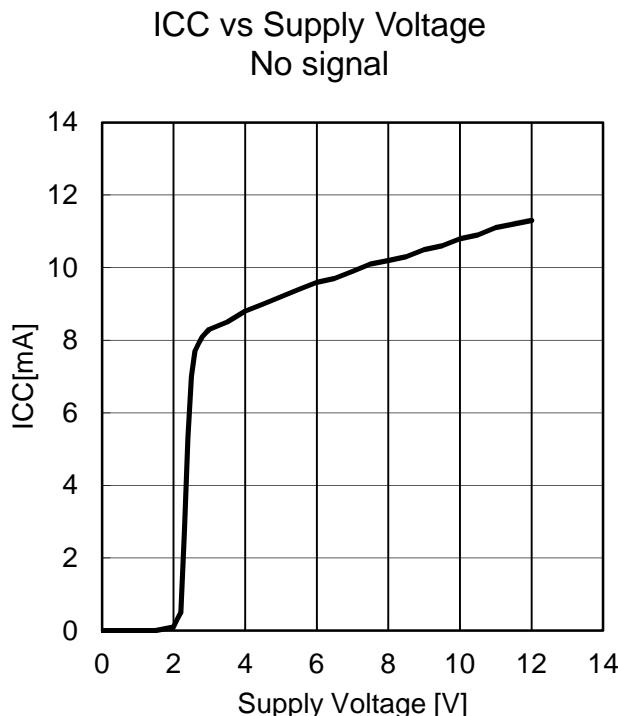
■Operating Current



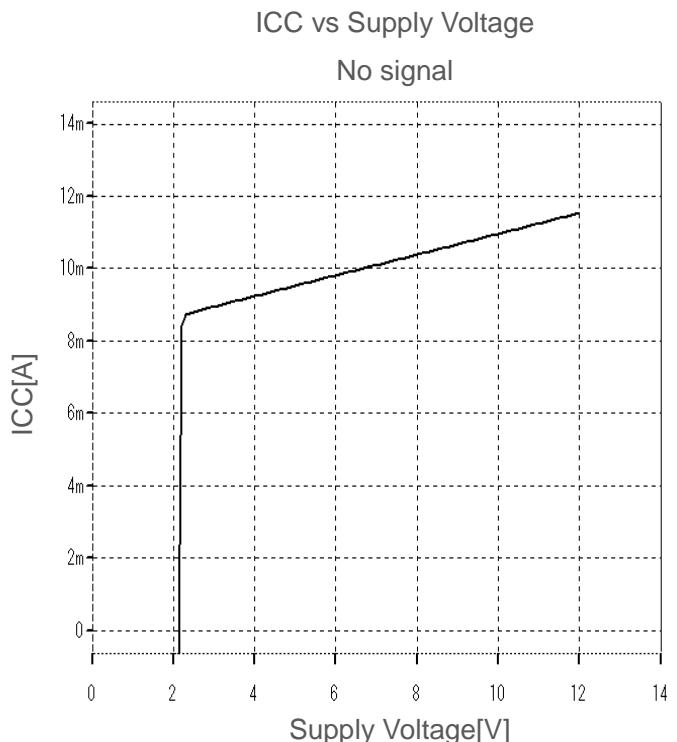
Simulation Circuit

Comparison Table

Operating Current [mA]	Condition	Data Sheet			Evaluation	Simulation	Error to Evaluation
		min	typ	max			
	No Signal	-	10	15	10.68	10.67	-0.1%

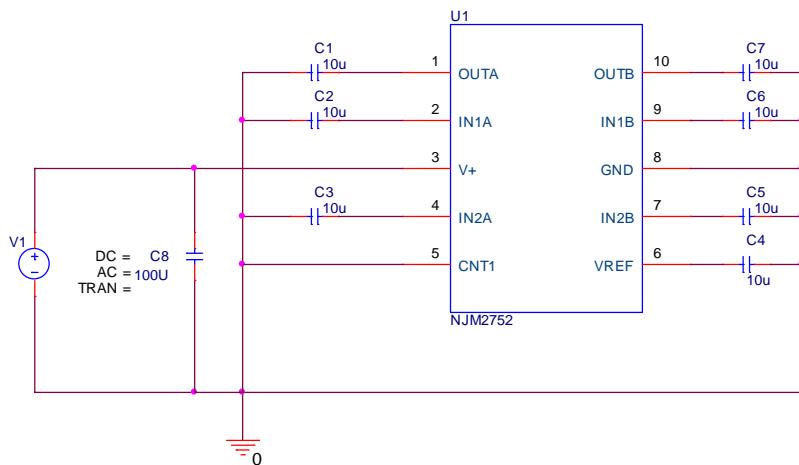


Evaluation Wave



Simulation Wave

■Reference Voltage

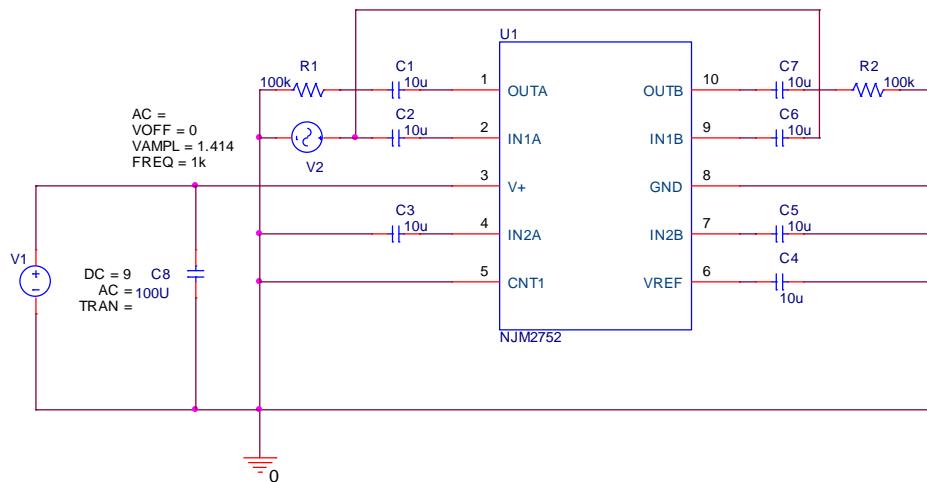


Simulation Circuit

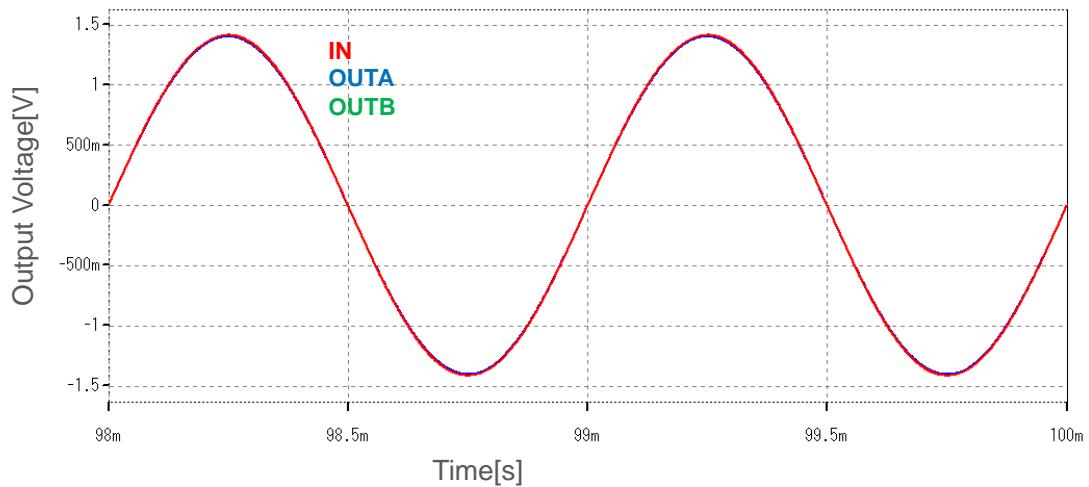
Comparison Table

Reference Voltage [V]	Condition	Data Sheet			Evaluation	Simulation	Error to Evaluation
		min	typ	max			
		-	4.5	-	4.53	4.50	-0.6%

■ Voltage Gain



Simulation Circuit

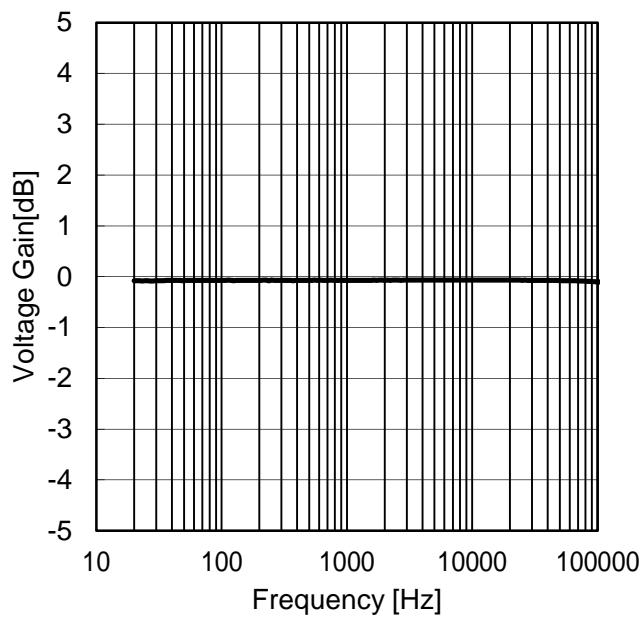


Simulation Wave

Comparison Table

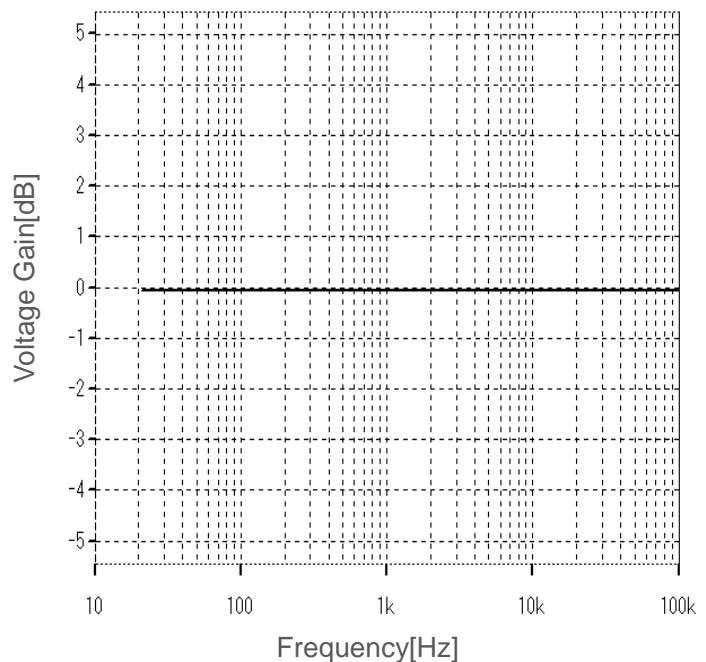
Voltage Gain [dB]	Condition	Data Sheet			Evaluation	Simulation	Error to Evaluation
		min	typ	max			
	Vin=1Vrms f=1kHz	-1	0	1	-0.057	-0.056	0.01%

Gain vs Frequency
V₊=9V, I/O:INA1-OUTA



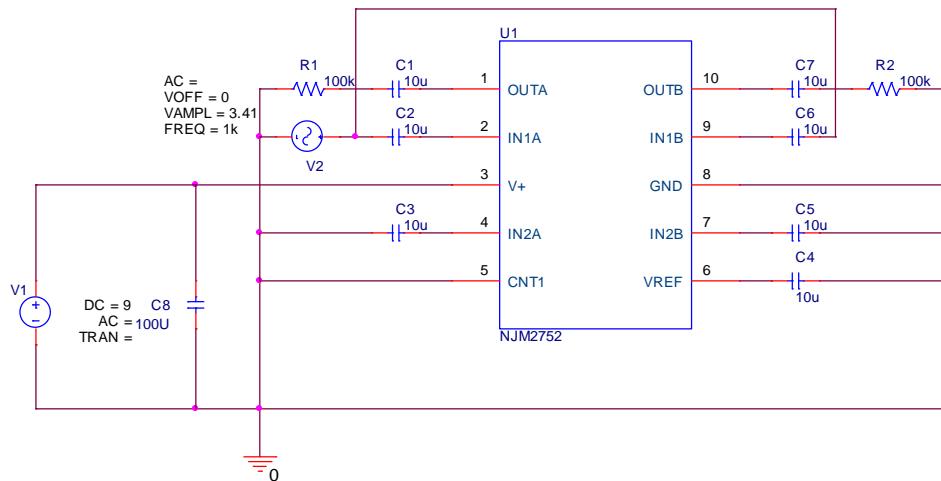
Evaluation Wave

Gain vs Frequency
V₊=9V, I/O:INA1-OUTA

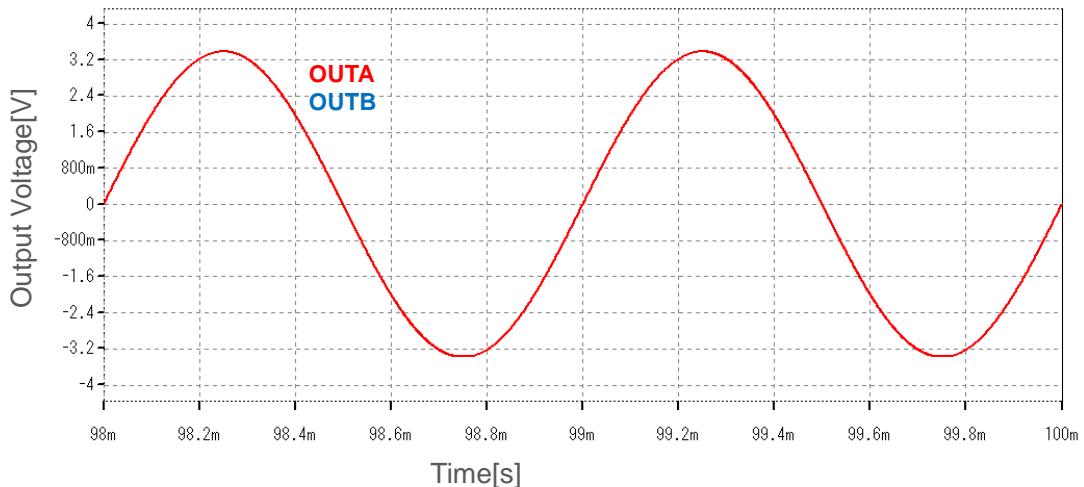


Simulation Wave

■Maximum Output Voltage



Simulation Circuit

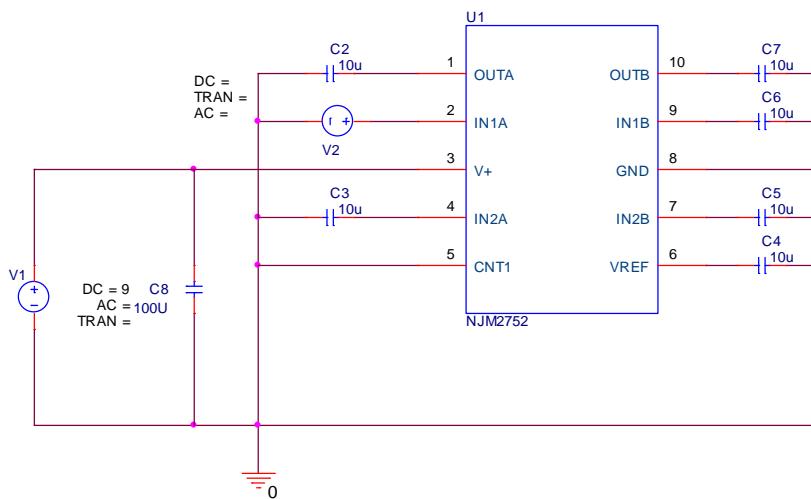


Simulation Wave

Comparison Table

Maximum output voltage [Vrms]	Condition	Data Sheet			Evaluation	Simulation	Error to Evaluation
		min	typ	max			
	f=1kHz THD=1%	2.0	2.5	-	2.49	2.39	-3.7%

■Input Impedance

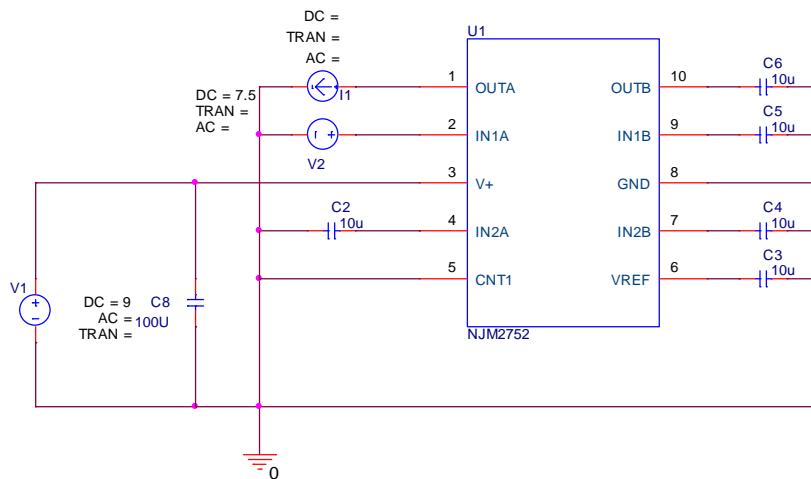


Simulation Circuit

Comparison Table

Input Impedance [kΩ]	Condition	Design	Evaluation	Simulation	Error to Evaluation
	-	100.6	100.4	100.6	0.3%

■Output Impedance

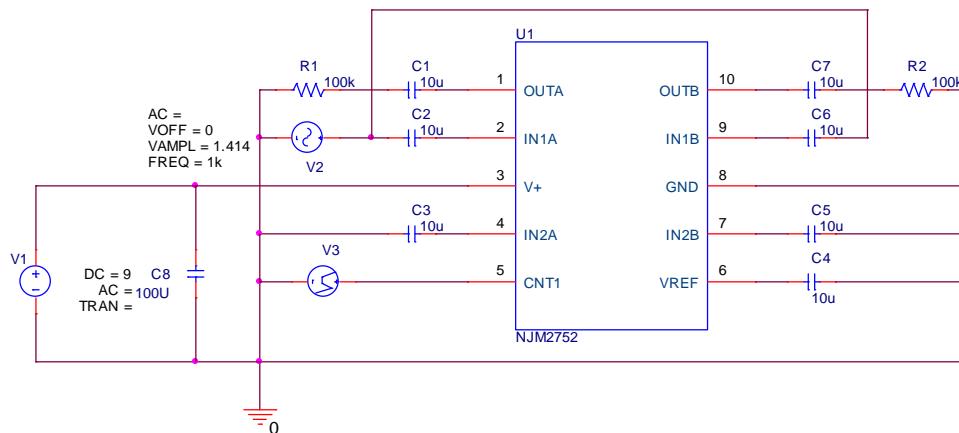


Simulation Circuit

Comparison Table

Output Impedance [kΩ]	Condition	Design	Evaluation	Simulation	Error to Evaluation
	-	45.0	49.1	45.0	-8.4%

■ Switch On Level

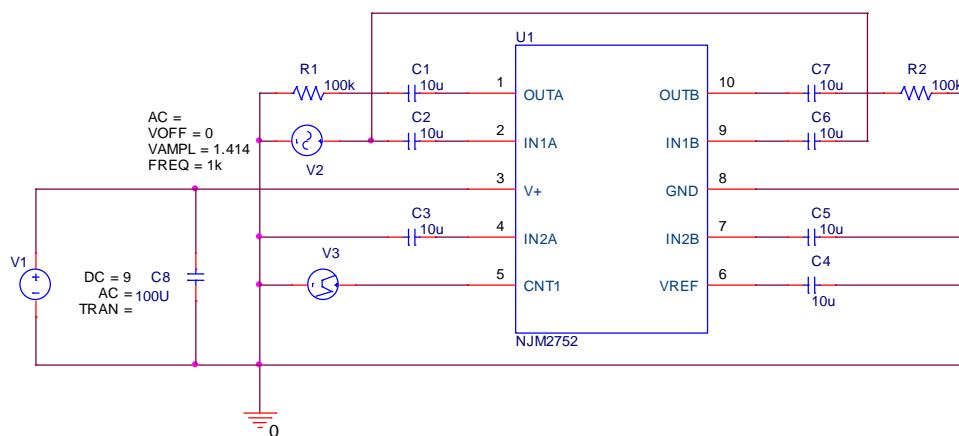


Simulation Circuit

Comparison Table

Switch On level [V]	Condition	Data Sheet			Evaluation	Simulation	Error to Evaluation
		min	typ	max			
-	-	2.4	-	-	1.82	1.83	0.7%

■ Switch OFF Level



Simulation Circuit

Comparison Table

Switch Off Level [V]	Condition	Data Sheet			Evaluation	Simulation	Error to Evaluation
		min	typ	max			
-	-	-	-	0.5	1.13	1.13	0.6%