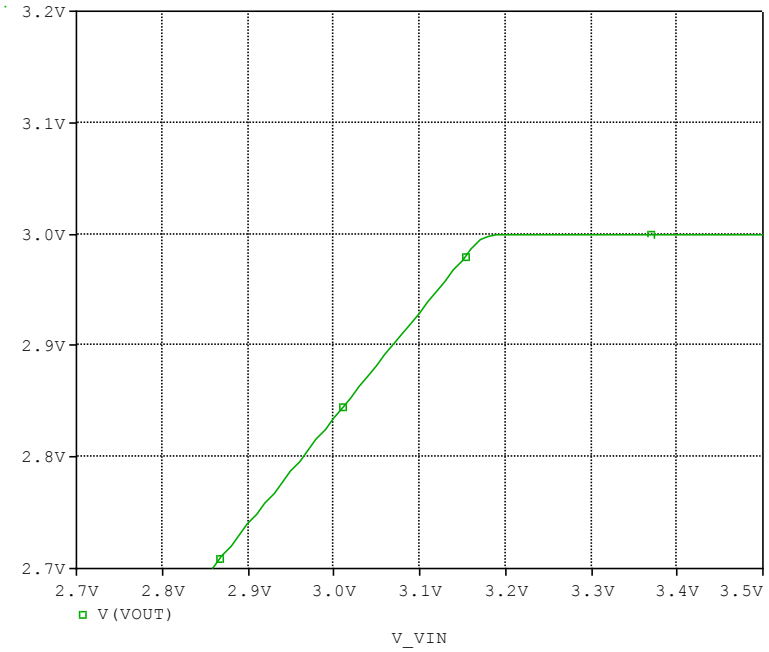
Device Modeling Report

COMPONENTS:
ADJUSTABLE LOW DROPOUT VOLTAGE REGULATOR
PART NUMBER: NJM2887
MANUFACTURER: NEW JAPAN RADIO

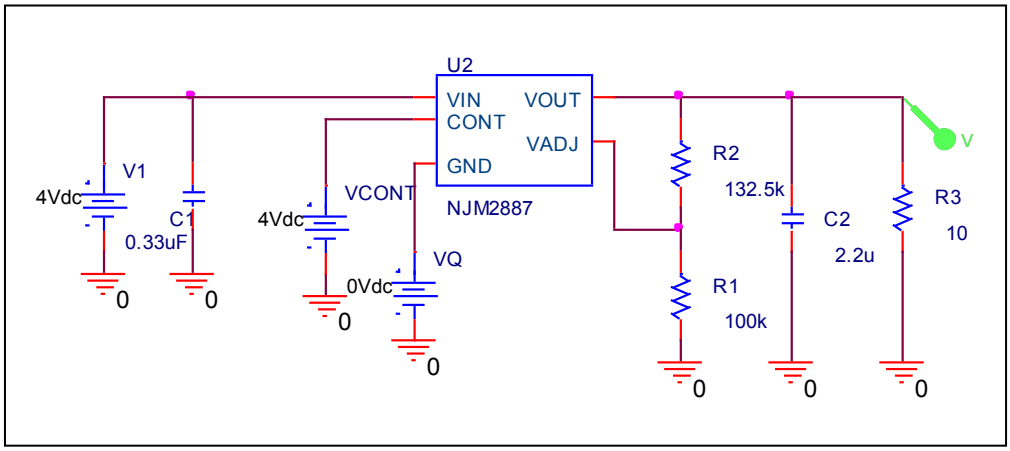
Bee Technologies Inc.

Dropout Voltage Characteristics

Circuit Simulation result



Evaluation circuit



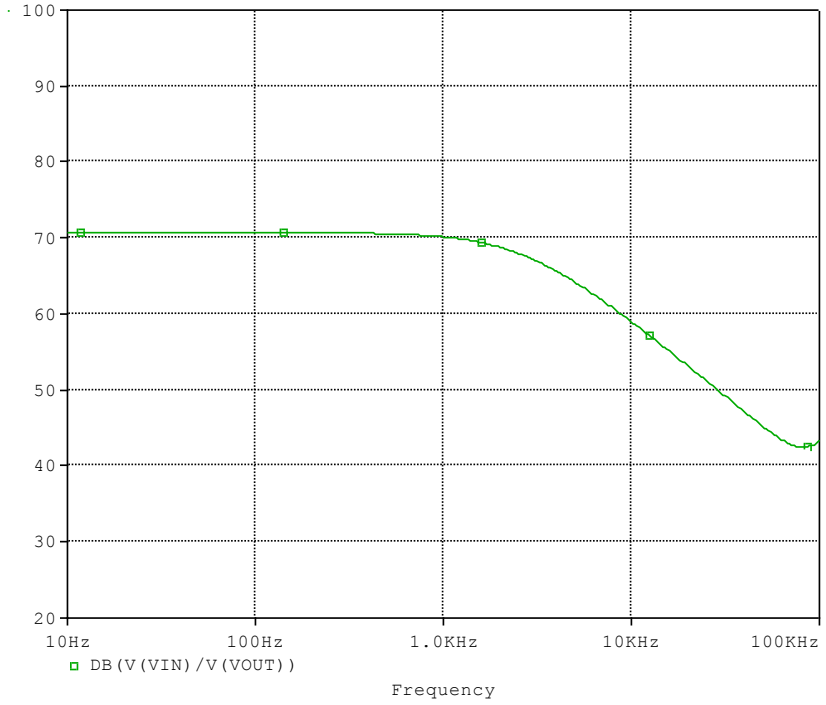
Simulation Result

Condition: R1=100kΩ, R2=132.5kΩ, Co=2.2uF

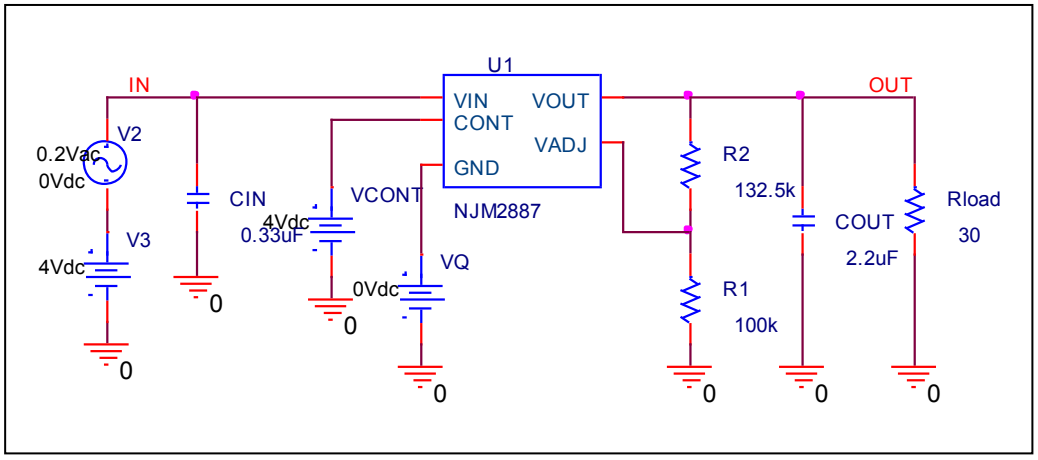
Condition: I_O=1mA	Measurement		Simulation		Error (%)
ΔV_{I-O}	180.000	mV	180.000	mV	0.000

Ripple Rejection (R•R) Characteristic

Circuit Simulation result



Evaluation circuit



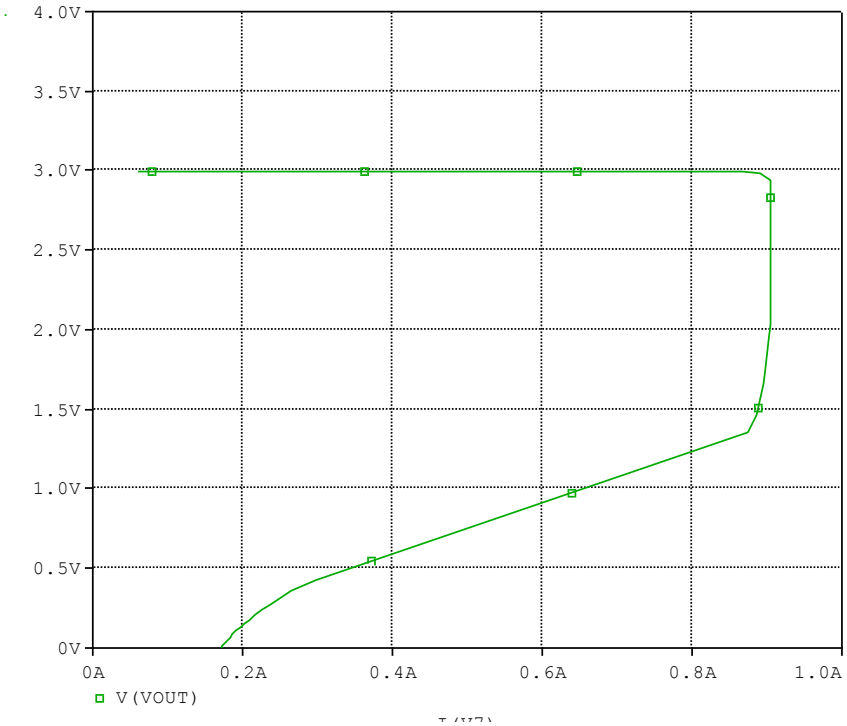
Simulation Result

Condition: f=1KHz, ein=200mVrms, Io=10mA, VO=3.00V Version

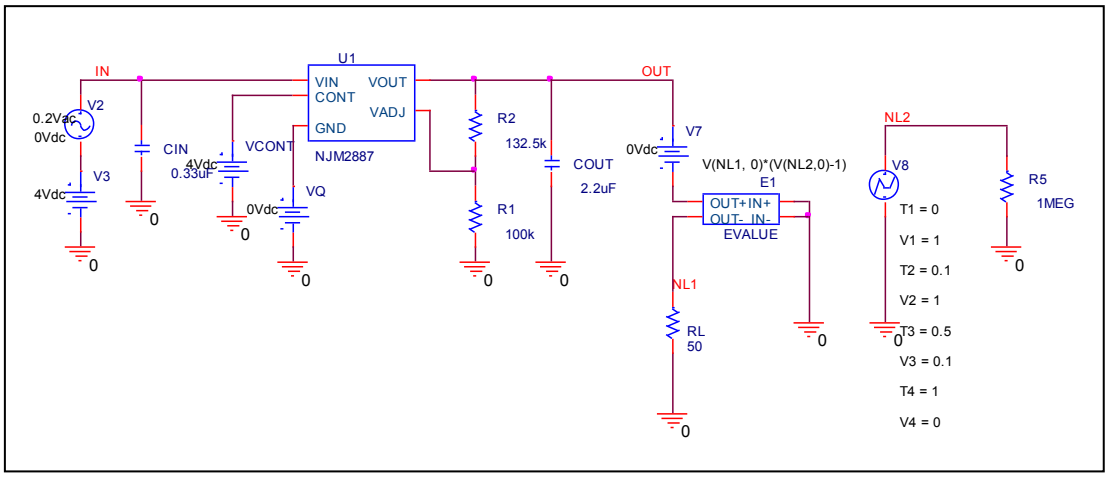
	Measurement		Simulation		Error (%)
R•R	70.000	dB	70.145	dB	0.207

Output Voltage vs. Output Current Characteristics

Circuit Simulation result



Evaluation circuit



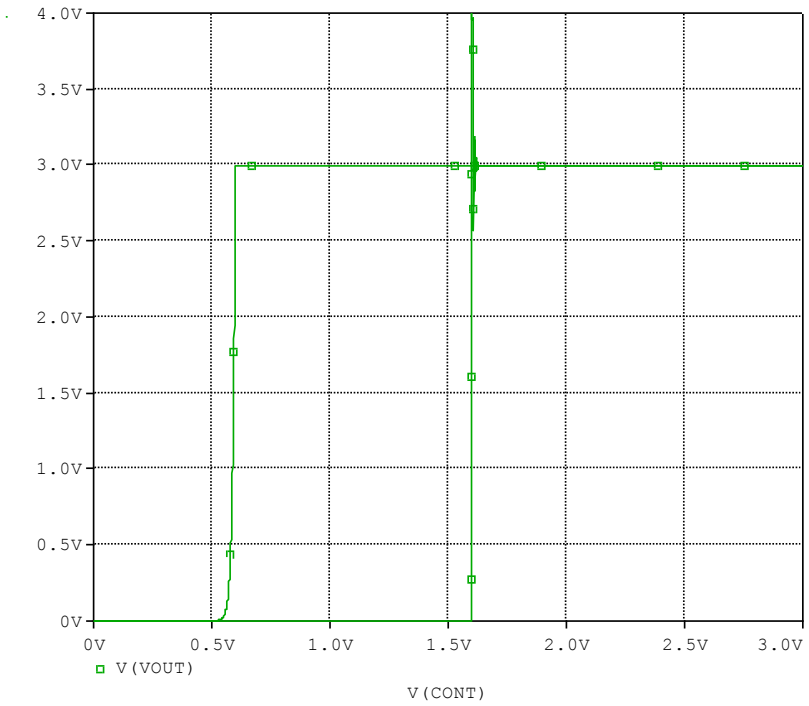
Simulation Result

Condition: R1=100kΩ, R2=132.5kΩ, Co=2.2uF

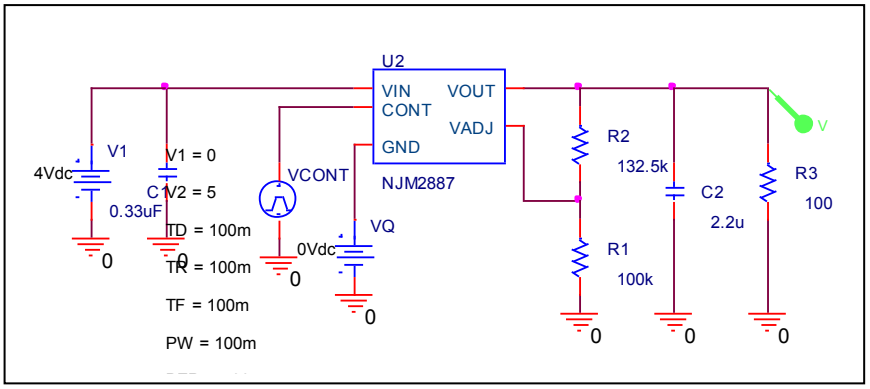
Condition: V_{IN}=4V	Measurement		Simulation		Error (%)
I_{OSC}	170.000	mA	171.075	mΩ	0.632

Output Voltage vs. Control Voltage

Circuit Simulation result



Evaluation circuit



Simulation Result

Condition: R1=100kΩ, R2=132.5kΩ, Co=2.2uF

	Measurement		Simulation		Error (%)
VCONT(ON)	**1.600**	**V**	**1.600**	**V**	**0**
VCONT(OFF)	**0.600**	**V**	**0.600**	**V**	**0**