

LTspice Model

Tone Decoder

New Japan Radio Co.,Ltd.

NJM567

Model Information

Model A macro model
Call Name MDC_NJM567_LT
Pin Assign 1:OUTPUT FILTER 2:LPF 3:INPUT 4:V+ 5:TIMING R 6:TIMING CR 7:GROUND
 8:OUTPUT
File List Model Library MDC_NJM567_LT03.lib
 Model Report MDC_NJM567_LT.pdf(this file)
Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Unknown
- Product name NJM567
- Company name New Japan Radio Co., Ltd.

[Characteristics listed]

- Characteristics f_{OH} , BW_s , BW_{max} , R_{IN} , V_{DON} , V_{DOFF} , V_{s-1} , V_{s-2}
 t_F , t_R

Simulation Condition

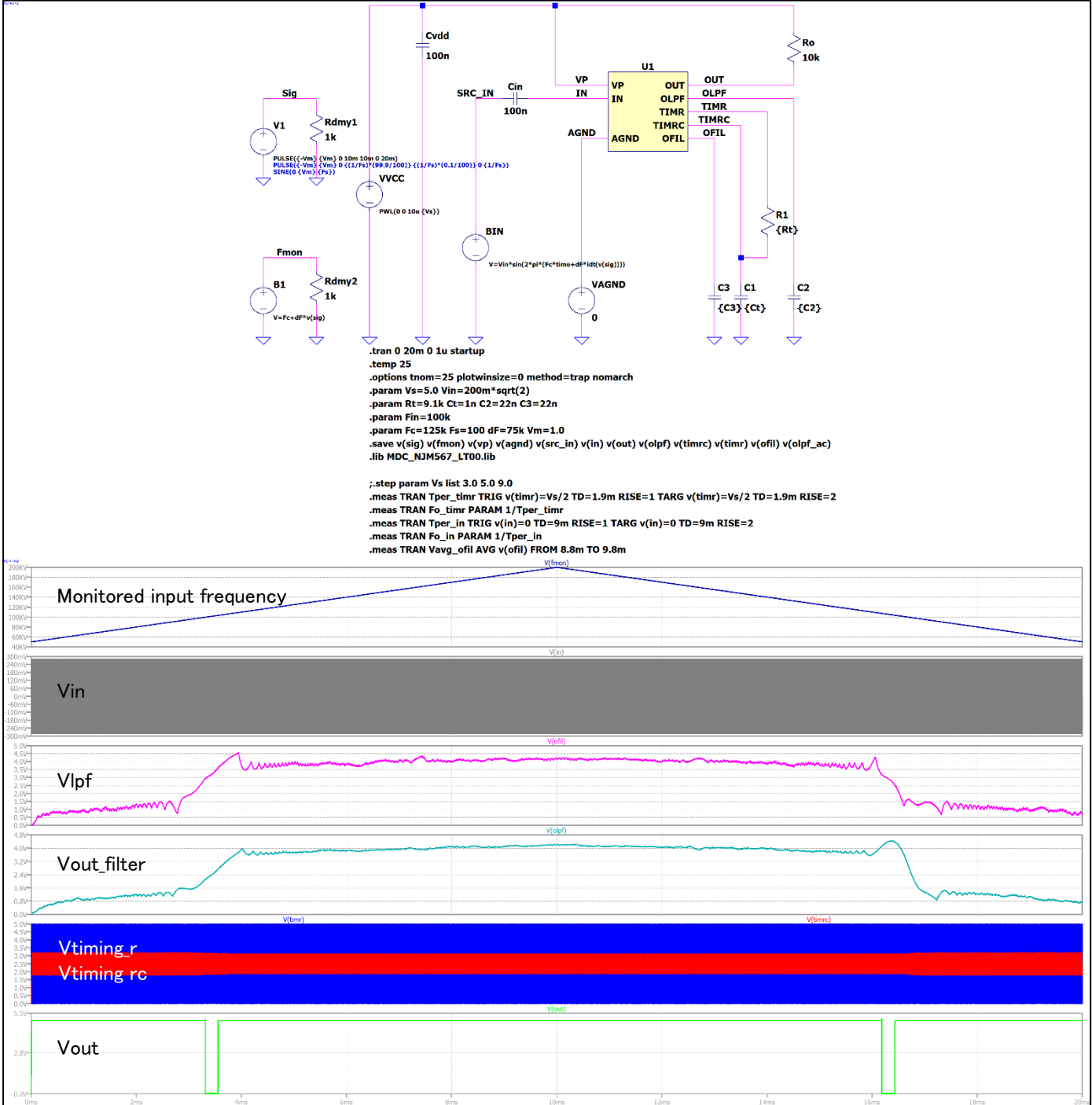
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Condition			Unit
	Min	Typ	Max	
Supply Voltage	4.75		9.00	V
Temperature		25		deg C

Model Functions Table

Functions	Implemented
Operating Voltage (4.75V to 9.00V)	<input type="radio"/>
Wide frequency range (0.01Hz to 500kHz)	<input type="radio"/>
Frequency adjustment over a 20 to 1 range with an external resistor	<input type="radio"/>

Tone decode Operation (Vcc = 5V, Vin=200mVrms, fin=50kHz to 200kHz, fo=100kHz) Testbench
Referred to Data Sheet



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