

LTspice Model

Tone Decoder

Texas Instruments Inc.

LM567CMX

Model Information

Model A macro model
Call Name MDC_LM567CMX_LT
Pin Assign 1:OF_CAP 2:LF_CAP 3:IN 4:VCC 5:T_RES 6:T_CAP 7:GND 8:OUT
File List Model Library MDC_LM567CMX_LT02.lib
 Model Report MDC_LM567CMX_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 LM567CMX
- Company name Texas Instruments Inc.

[Characteristics listed]

- Characteristics Input Resistance, Smallest Detectable Input Voltage, Largest No Output Input Voltage, Highest Center Frequency, Output Saturation Voltage, Output, Saturation Voltage, Output Fall/Rise Time

Simulation Condition

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

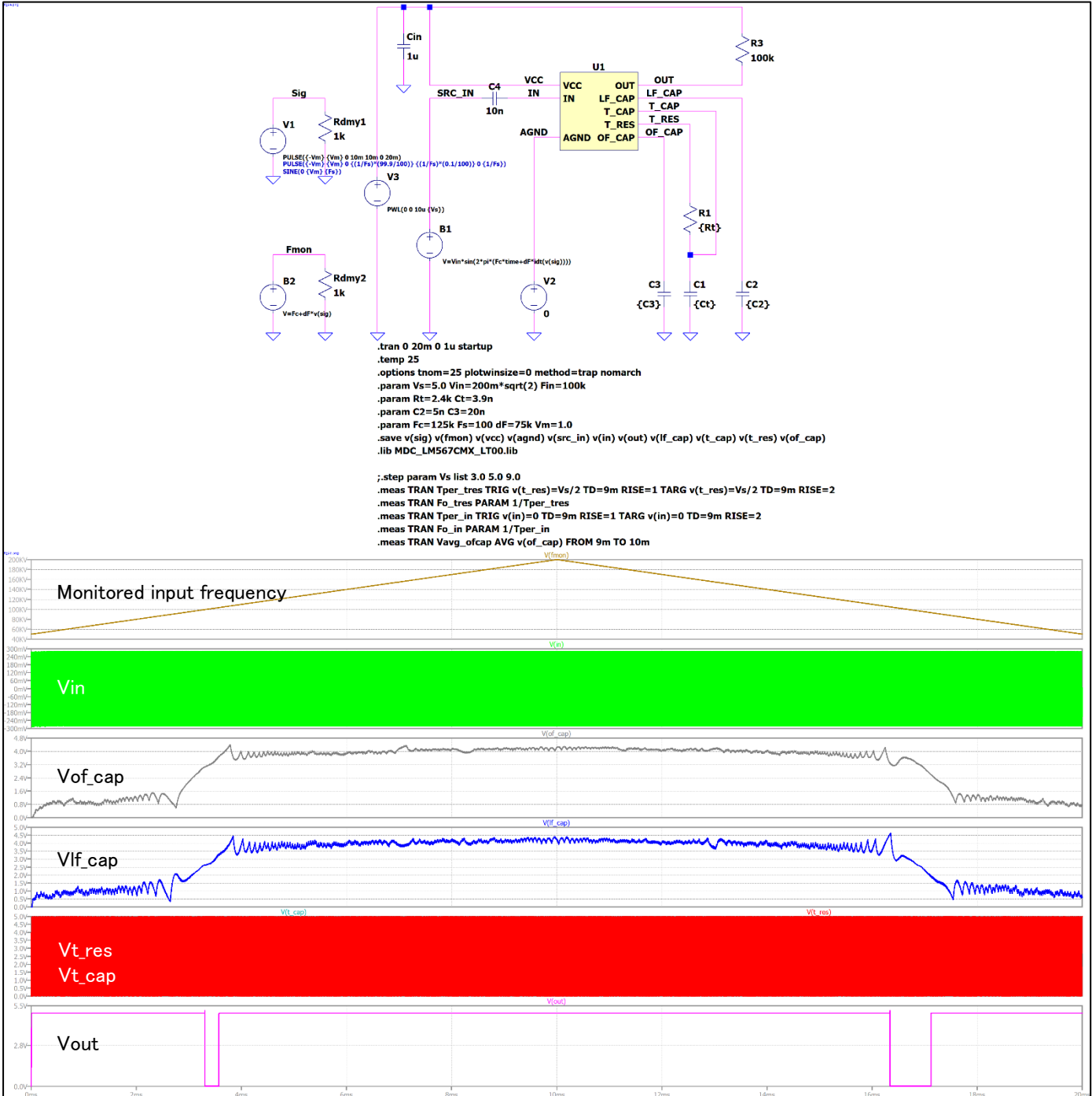
Item	Condition			Unit
	Min	Typ	Max	
Supply Voltage	4.75		9.00	V
Temperature		25		deg C

Model Functions Table

Functions	Implemented
Operating Voltage (4.75V to 9.00V)	○
Wide frequency range (0.01Hz to 500kHz)	○
Frequency adjustment over a 20 to 1 range with an external resistor	○

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

Referred to Data Sheet



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