

LTspice Model

Choke Coil

SHT

DTS30-N13230VB

Model Information

Model	A macro model
Call Name	MDC_DTS30-N13230VB_LT
Pin Assign	1:Port1 2:Port2
File List	Model Library MDC_DTS30-N13230VB_LT.lib Model Report MDC_DTS30-N13230VB_LT.pdf(this file)
Verified Simulator Version	LTspice XVII
Note	

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2023 06
- Product name DTS30-N13230VB
- Company name SHT Corporation

[Characteristics listed]

- Characteristics Impedance – Frequency
Inductance - Current

Simulation Condition

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

Item	Condition	Unit
Temperature	25	deg C

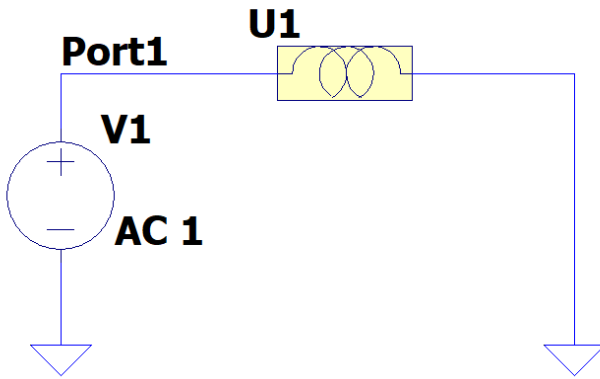
Model Functions Table

Functions	Implemented
Impedance - Frequency	<input type="radio"/>
Inductance - Current	<input type="radio"/>

Impedance vs Frequency

TestBench

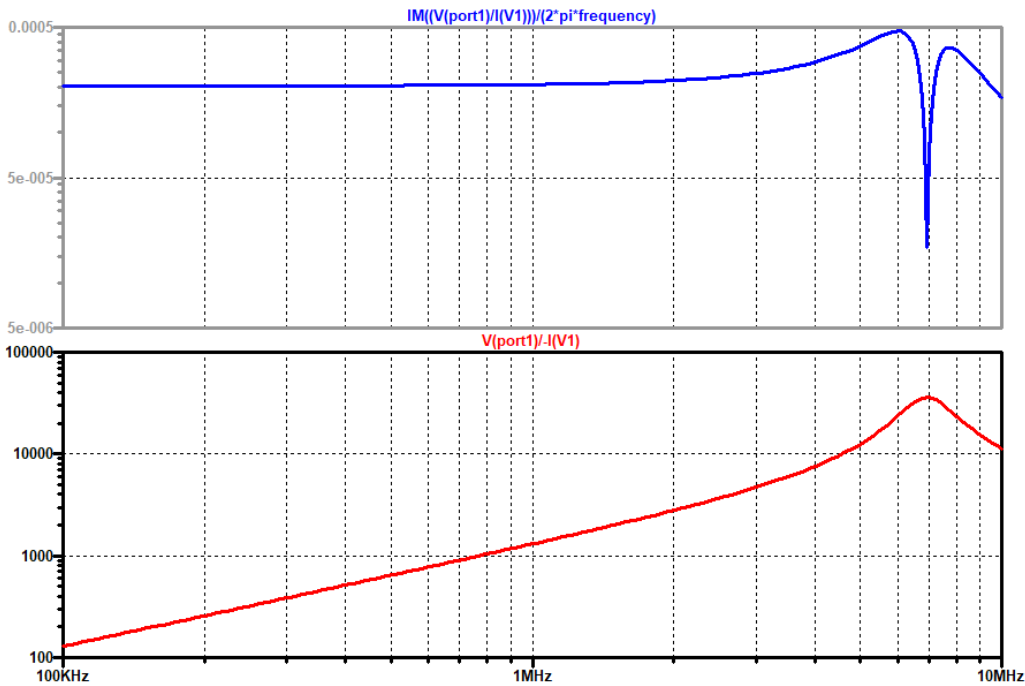
```
.ac dec 100 100k 10meg
.Option TNOM=25
.Temp 25
```



Impedance vs Frequency

Simulation results are following.

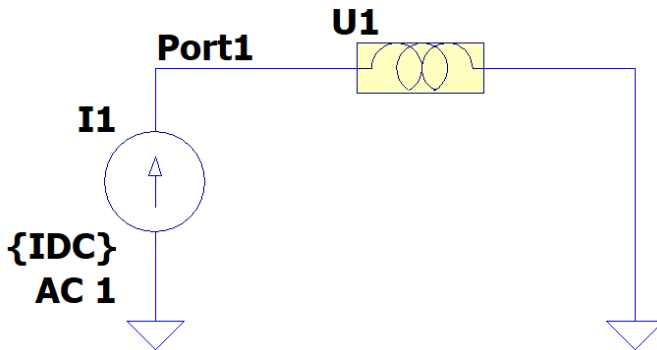
Explanatory notes — : simulated



Inductance - Current

TestBench

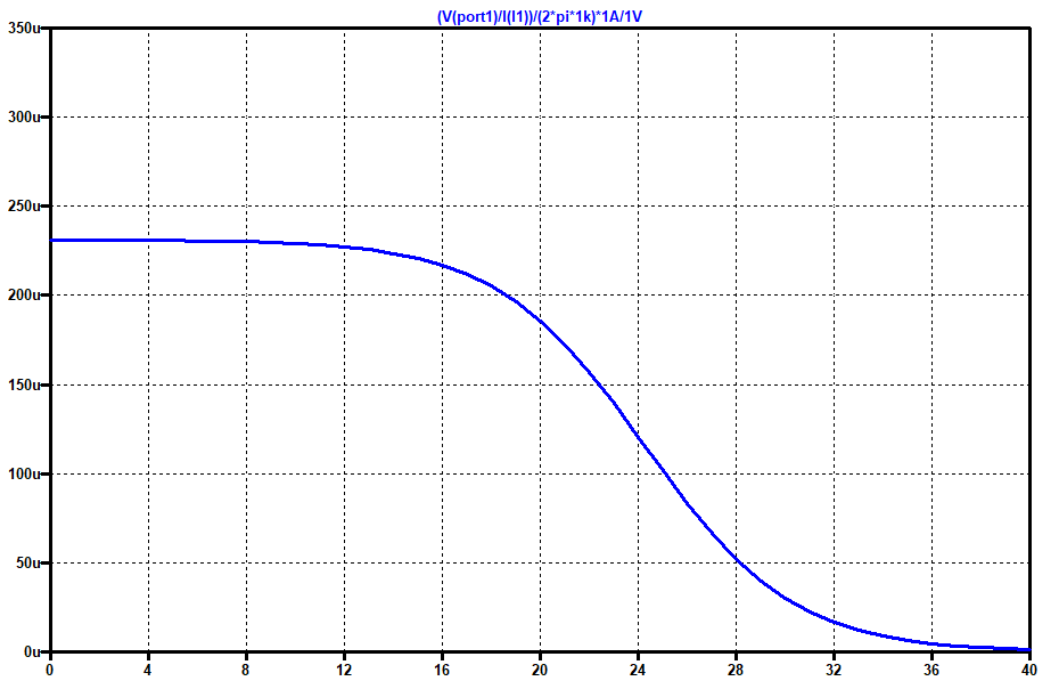
```
.ac list 1k
.step param IDC 0 40 1
.Option TNOM=25
.Temp 25
```



Inductance - Current

Simulation results are following.

Explanatory notes — : simulated



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MoDeCH Inc.

Head Office

Location: 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:<http://www.modech.com/en/>