

LTspice Model

Multilayer Inductor

MURATA

DFE2HCAH2R2MJ0L



Model Information

Model An original macro model
Call Name MDC_DFE2HCAH2R2MJ0L_LT
Pin Assign 1:1 2:2
File List Model Library MDC_DFE2HCAH2R2MJ0L_LT01.lib
 Model Report MDC_DFE2HCAH2R2MJ0L_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 2023/09/29
- Product name DFE2HCAH2R2MJ0L
- Company name Murata Manufacturing Co., Ltd.
- Characteristics InductanceIf[Temp], InductanceFreq[Vf], ImpedanceFreq[Vf], QfactorFreq[Vf], ResistanceVf[Temp]

Simulation Range

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

Item	Range			Unit
	Min.		Max.	
Temperature	-40	to	150	deg C

Inductor

○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table

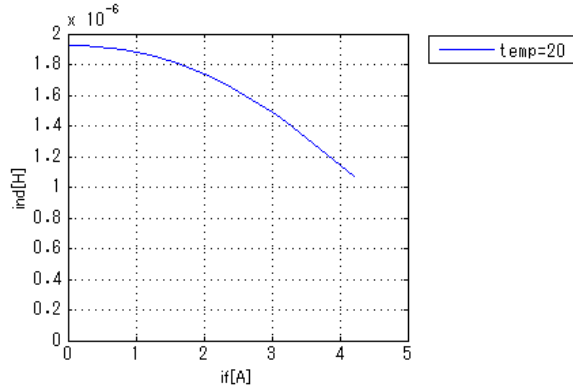
RANK=1

Functions	RANK	Implemented
Impedance-Frequency	1	○
Inductance-Frequency	1	○
Inductance-Current	1	○
Inductance-Temp	1	—
Resistance-Voltage	1	○
Qfactor-Frequency	1	○

Simulation results are following.
 Explanatory notes — : simulated

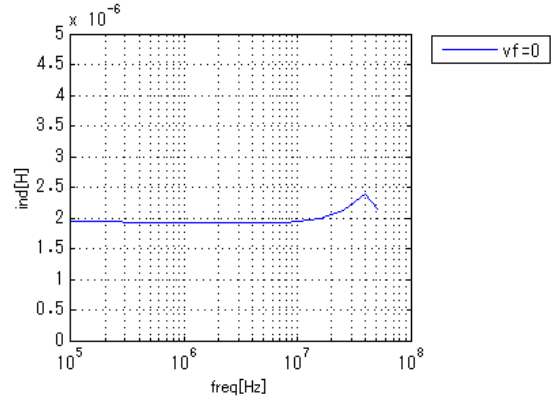
InductanceI[Temp]

freq = 1000000Hz



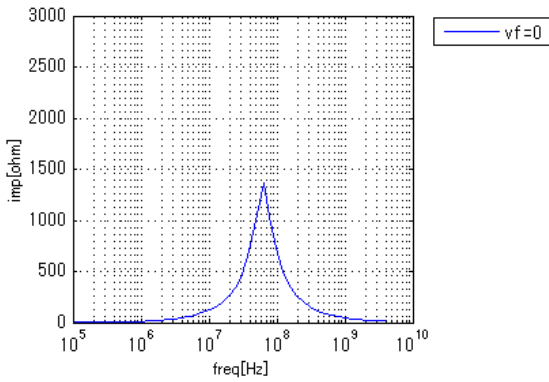
InductanceFreq[Vf]

temp = 25degC



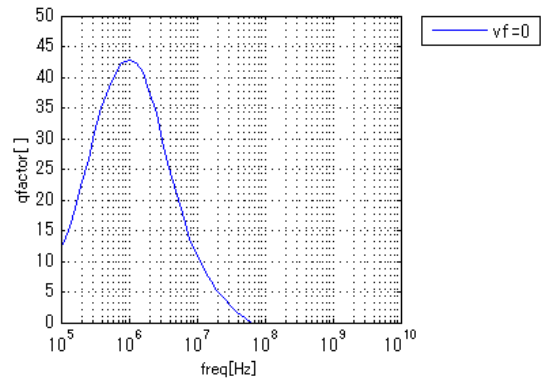
ImpedanceFreq[Vf]

temp = 25degC

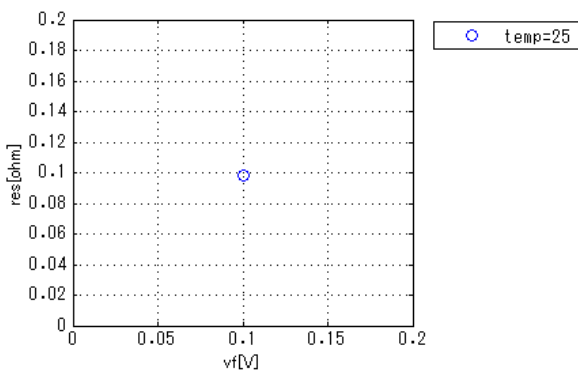


QfactorFreq[Vf]

Temp = 25degC



ResistanceVf[Temp]



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