

PSpice Model

Power Choke Coil

Cyntec

VCTA32251B-6R8MS6



Model Information

Model A macro model
Call Name MDC_VCTA32251B-6R8MS6_PS
Pin Assign 1:1 2:2
File List Model Library MDC_VCTA32251B-6R8MS6_PS01.lib
 Model Report MDC_VCTA32251B-6R8MS6_PS.pdf (this file)
Verified Simulator Version PSpice version 17.2
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Oct., 2020
- Product name VCTA32251B-6R8MS6
- Company name Cyntec Co., Ltd.
- Characteristics InductanceI[Temp],ResistanceI[Temp],InductanceFreq[Vf],ImpedanceFreq[Vf]

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.	to	Max.	
Temperature	-55	to	165	deg C

Inductor

○ : Implemented
 × : Not Implemented
 — : Not applicable

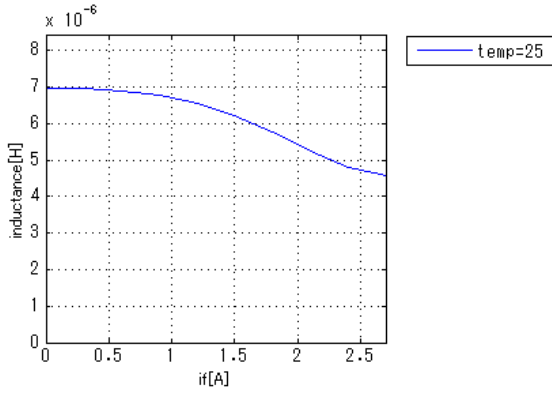
Model Functions Table
RANK=1

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

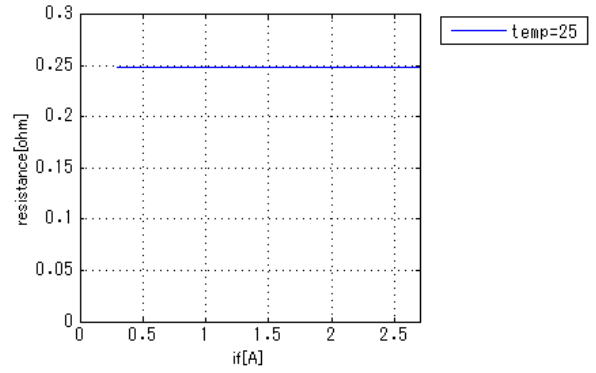
Simulation results are following.
 Explanatory notes — : simulated

InductanceI[Temp]

freq = 1000000Hz

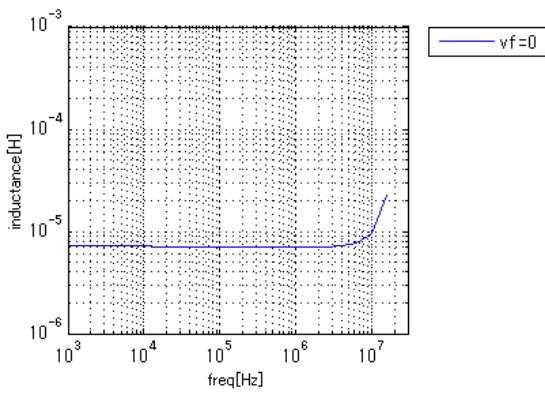


ResistanceI[Temp]



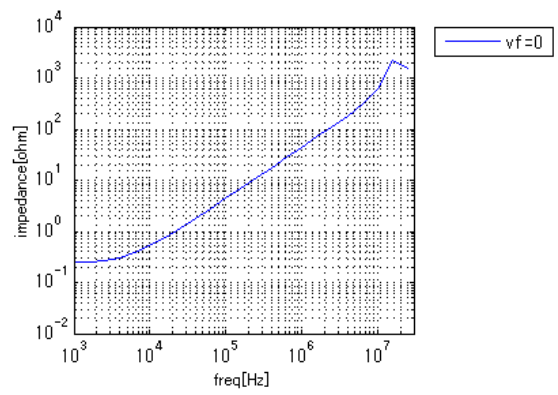
InductanceFreq[Vf]

temp = 25degC



ImpedanceFreq[Vf]

temp = 25degC



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