

ADS Model Ferrite Beads TOKIN SBCP-87HY220H



Model Information

Model An original macro model
Call Name MDC_SBCP-87HY220H_AD02
Pin Assign 1:1 2:2
File List Model Library MDC_SBCP_87HY220H_AD02.zip
 Model Report MDC_SBCP-87HY220H_AD.pdf (this file)

Verified Simulator Version ADS version 2022 Update 1
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 5/24/2019
- Product name SBCP-87HY220H
- Company name TOKIN Corporation
- Characteristics InductanceI_r[Temp], InductanceFreq[V_r], InductanceTemp[I_r], ResistanceI_f[Temp], ImpedanceFreq[V_r]

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	-20	to	105	deg C

Inductor

○ : Implemented
 × : Not Implemented
 — : Not applicable

Model Functions Table

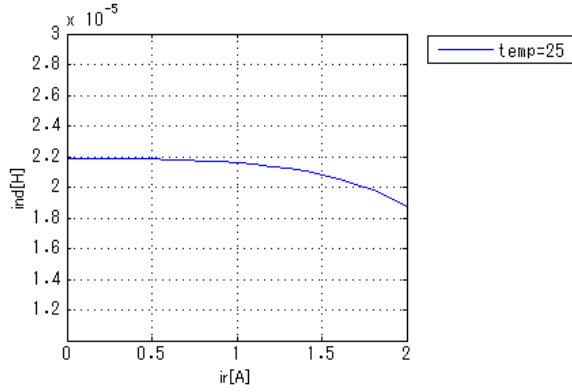
RANK=1

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

Simulation results are following.
 Explanatory notes — : simulated

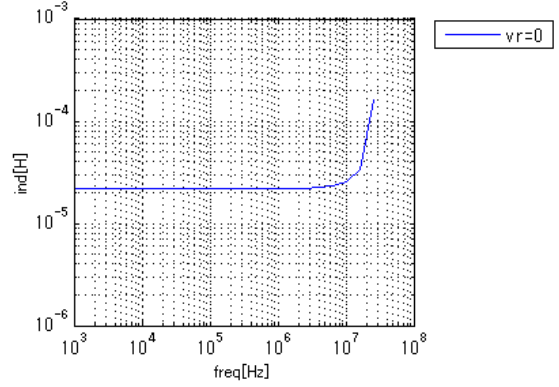
InductanceI[Temp]

freq = 10000Hz



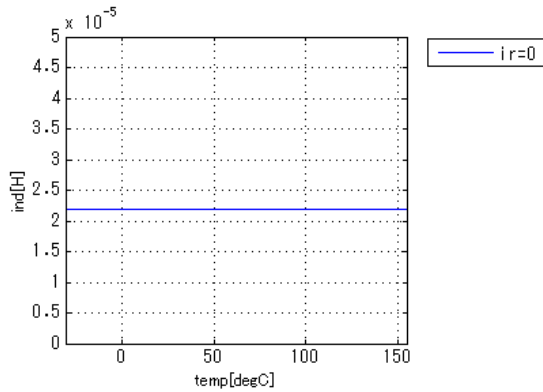
InductanceFreq[Vr]

temp = 25degC

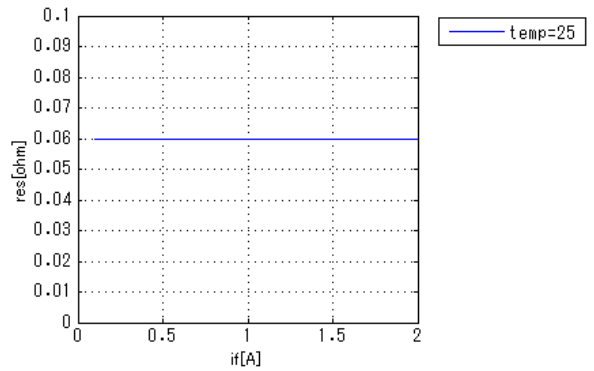


InductanceTemp[Ir]

freq = 20000Hz

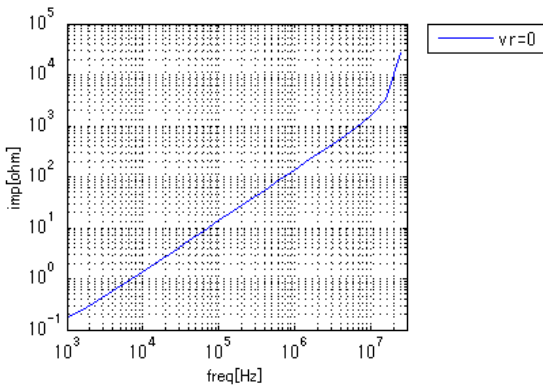


ResistanceI[Temp]



ImpedanceFreq[Vr]

temp = 25degC



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