

LTspice Model Ferrite Beads TOKIN SBCP-87HY220H



Model Information

Model An original macro model Call Name MDC_SBCP-87HY220H_LT

Pin Assign 1:1 2:2

File List Model Library MDC_SBCP-87HY220H_LT01.lib

Model Report MDC_SBCP-87HY220H_LT.pdf (this file)

Verified Simulator Version

Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version 5/24/2019

Product nameCompany nameSBCP-87HY220HTOKIN Corporation

● Characteristics InductanceIr[Temp],InductanceFreq[Vr],InductanceTemp[Ir],

Resistancelf[Temp],ImpedanceFreq[Vr]

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



Model Functions Table

Inductor

O: Implemented

×: Not Implemented

—: Not applicable

RANK=1

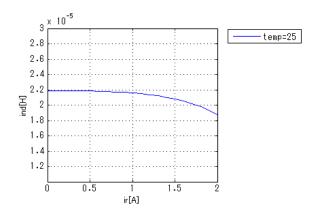
	10 (141)	
Functions	RANK	Implemented
Impedance-Frequency	1	0
Inductance-Frequency	1	0
Inductance-Current	1	0
Inductance-Temp	1	0
Resistance	1	0



Simulation results are following. Explanatory notes — : simulated

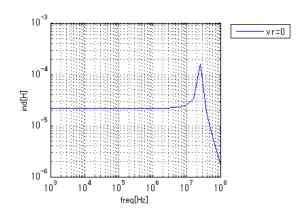
Inductancelr[Temp]

freq = 10000Hz



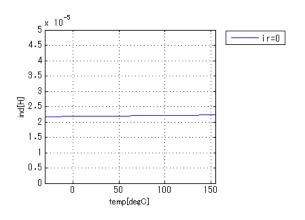
InductanceFreq[Vr]

temp = 25degC

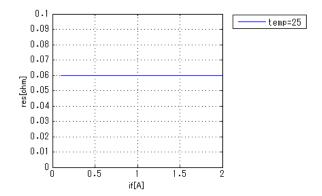


InductanceTemp[Ir]

freq = 20000Hz

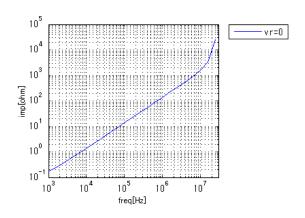


Resistancelf[Temp]



ImpedanceFreq[Vr]

temp = 25degC





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