

# PSpice Model Ferrite Beads TOKIN SBCP-87HY220H



### **Model Information**

Model An original macro model Call Name MDC\_SBCP-87HY220H\_PS

Pin Assign 1:1 2:2

File List Model Library MDC\_SBCP-87HY220H\_PS01.lib

Model Report MDC\_SBCP-87HY220H\_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 17.2

#### 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

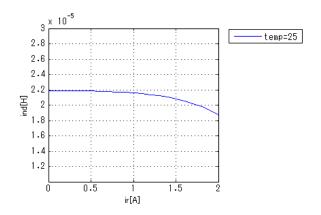
Functions	RANK	Implemented
Impedance-Frequency	1	0
Inductance-Frequency	1	0
Inductance-Current	1	0
Inductance-Temp	1	0
Resistance	1	0



Simulation results are following. Explanatory notes — : simulated

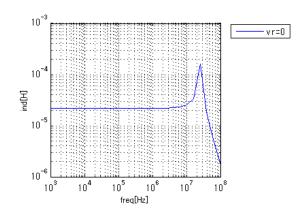
### Inductancelr[Temp]

freq = 10000Hz



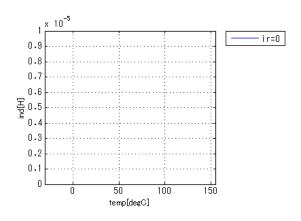
### InductanceFreq[Vr]

temp = 25degC

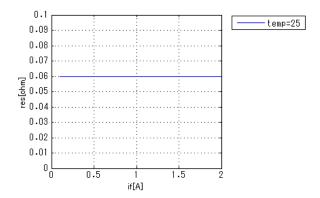


#### InductanceTemp[Ir]

freq = 20000Hz

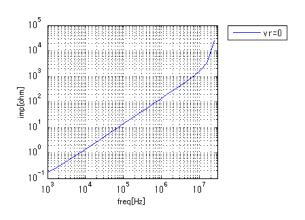


### Resistancelf[Temp]



### ImpedanceFreq[Vr]

temp = 25degC





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