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LTspice Model Wound Inductor TOKIN SC-18-E15J

Model Information

ModelAn original macro modelCall NameMDC_SC-18-E15J_LTPin Assign1:N1 2:N2 3:N2 4:N1File ListModel Library
Model Report

MDC_SC-18-E15J_LT01.lib MDC_SC-18-E15J_LT.pdf (this file)

N1

COMMON MODE

N2

Verified Simulator Version Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]	
Date/Version	10/14/2019
Product name	SC-18-E15J
Company name	TOKIN Corporation
Characteristics	ImpedanceFreq[Vr],InductanceFreq[Vr],InductanceIr[Temp],I nductanceTemp[Ir],ResistanceIf[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	-55	to	150	deg C

Modech

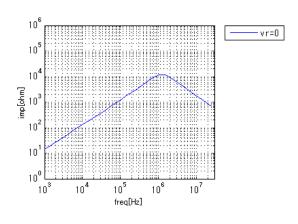
Inductor		O : Implemented × : Not Implemented — : Not applicable	
Model Functions Table	RANK=1		
Functions	RANK	Implemented	
Impedance-Frequency	1	0	
Inductance-Frequency	1	0	
Inductance-Current	1	0	
Inductance-Temp	1	0	
Resistance	1	0	



Simulation results are following. Explanatory notes -: simulated

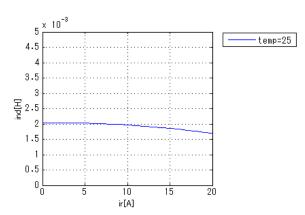
ImpedanceFreq[Vr]

temp = 25degC

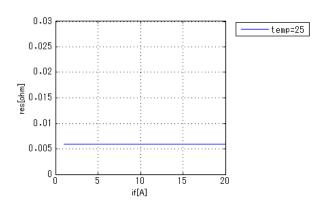


Inductancelr[Temp]

freq = 10000Hz

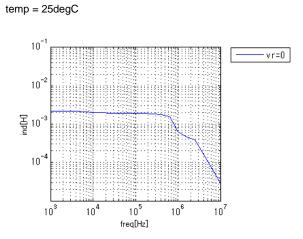


Resistancelf[Temp]



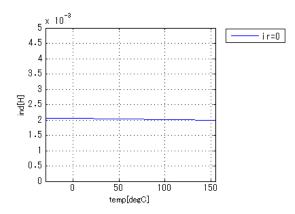
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InductanceFreq[Vr]



InductanceTemp[Ir]

freq = 10000Hz





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