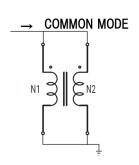
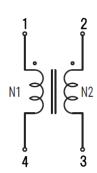


PSpice Model Wound Inductor TOKIN SC-18-E15J





Model Information

Model An original macro model
Call Name MDC_SC-18-E15J_PS
Pin Assign N1 2:N2 3:N2 4:N1

File List Model Library MDC_SC-18-E15J_PS01.lib

Model Report MDC_SC-18-E15J_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/VersionProduct name10/14/2019SC-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



Model Functions Table

Inductor

O: Implemented

×: Not Implemented

—: Not applicable

		='	

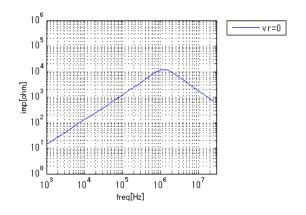
Functions	RANK	Implemented	
Impedance-Frequency	1	0	
Inductance-Frequency	1	0	
Inductance-Current	1	0	
Inductance-Temp	1	0	
Resistance	1	0	



Simulation results are following. Explanatory notes — : simulated

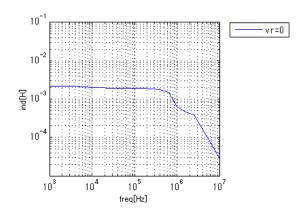
ImpedanceFreq[Vr]

temp = 25degC



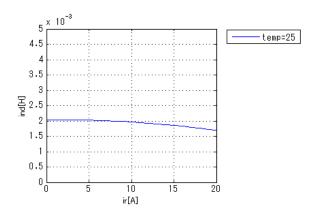
InductanceFreq[Vr]

temp = 25degC



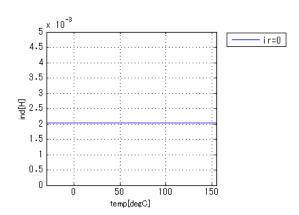
Inductancelr[Temp]

freq = 10000Hz

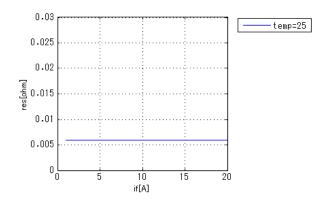


InductanceTemp[Ir]

freq = 10000Hz



Resistancelf[Temp]





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