

LTspice Model Power Choke Coil Panasonic ETQP4MR33GAK



Model Information

Model An original macro model
Call Name MDC_ETQP4MR33GAK_LT
Pin Assign 1:1 2:2
File List Model Library MDC_ETQP4MR33GAK_LT01.lib
 Model Report MDC_ETQP4MR33GAK_LT.pdf (this file)
Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2023/6/5
- Product name ETQP4MR33GAK
- Company name Panasonic Corporation
- Characteristics InductanceI[Temp],ResistanceI[Temp],InductanceFreq[Vf],ImpedanceFreq[Vf],InductanceVf[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	-40	to	150	deg C

Inductor

○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table

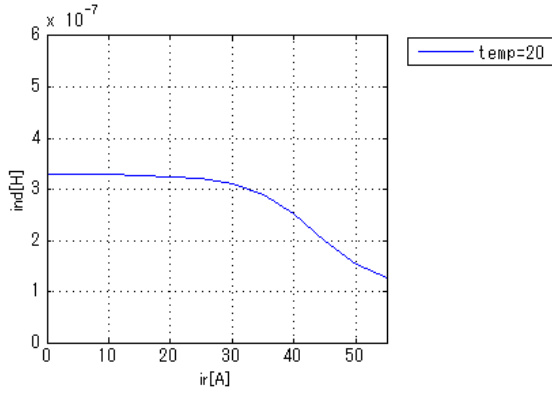
RANK=1

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

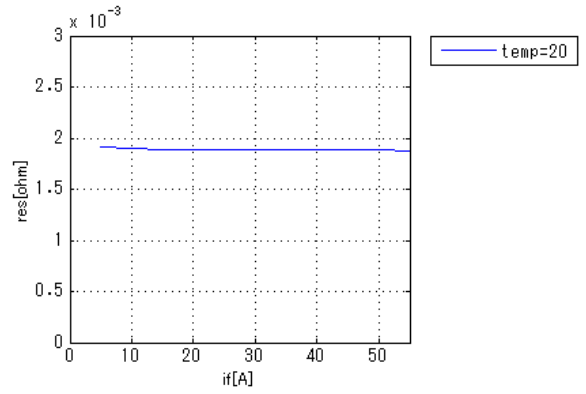
Simulation results are following.
 Explanatory notes — : simulated

InductanceI[Temp]

freq = 100000Hz

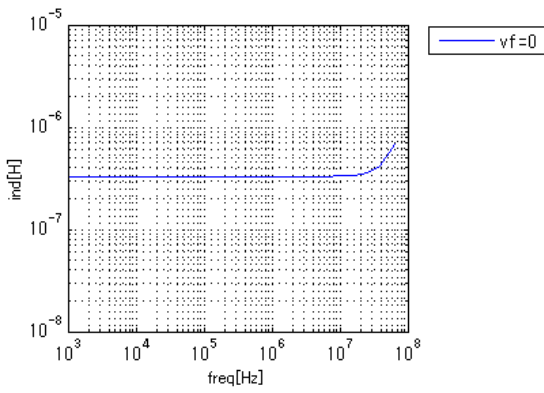


ResistanceI[Temp]



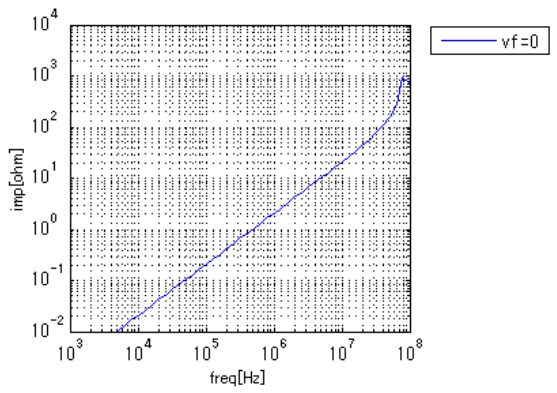
InductanceFreq[Vf]

temp = 25degC



ImpedanceFreq[Vf]

temp = 25degC



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