

LTspice Model Multilayer Inductor TDK HPL8012060F1R22MRD3P



Model Information

Model An original macro model

Call Name MDC HPL8012060F1R22MRD3P LT

Pin Assign 1:1 2:2

File List Model Library MDC_HPL8012060F1R22MRD3P_LT01.lib

Model Report MDC_HPL8012060F1R22MRD3P_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 Unknown

Product name
HPL8012060F1R22MRD3P

Company name TDK Corporation

Characteristics ImpedanceFreq[Vf],ESRFreq[Vf],InductanceFreq[Vf],Qfactor

Freq[Vf],Inductancelf[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	155	deg C



Model Functions Table

Inductor

O:Implemented

×: Not Implemented

—: Not applicable

RANK=1

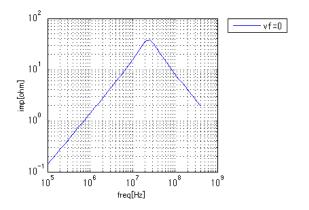
Functions	RANK	Implemented
Impedance-Frequency	1	0
ESR-Frequency	1	0
Inductance-Frequency	1	0
Inductance-Current	1	0
Inductance-Temp	1	_
Resistance-Voltage	1	_
Qfactor-Frequency	1	0



Simulation results are following. Explanatory notes — : simulated

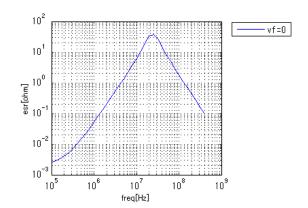
ImpedanceFreq[Vf]

temp = 20degC



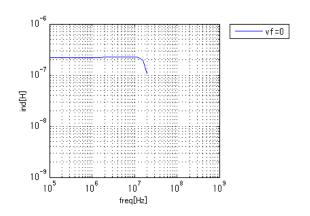
ESRFreq[Vf]

temp = 20degC



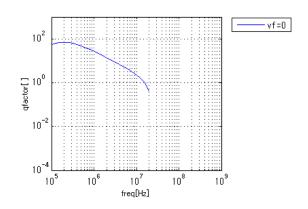
InductanceFreq[Vf]

temp = 20degC



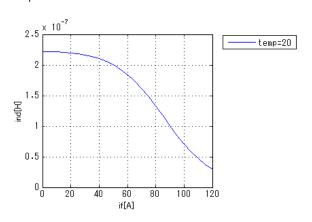
QfactorFreq[Vf]

temp = 20degC



Inductancelf[Temp]

freq = 1000000Hz





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