

# **LTspice Model Multilayer Inductor MURATA** DFE252012PD-1R5M



### **Model Information**

An original macro model

Call Name MDC DFE252012PD-1R5M LT

**Pin Assian** 1:1 2:2

File List Model Library MDC\_DFE252012PD-1R5M\_LT01.lib

> Model Report MDC\_DFE252012PD-1R5M\_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 2023/10/05

Product name DFE252012PD-1R5M

Company name Murata Manufacturing Co., Ltd. Characteristics

InductanceIf[Temp],InductanceFreq[Vf],ImpedanceFreq[Vf],

QfactorFreq[Vf],ResistanceVf[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	125	deg C



**Model Functions Table** 

## Inductor

O: Implemented

×: Not Implemented

—: Not applicable

# RANK=1

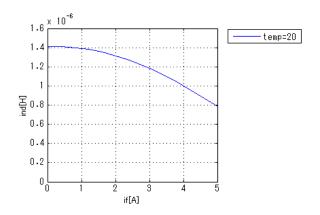
Functions	RANK	Implemented
Impedance-Frequency	1	0
Inductance-Frequency	1	0
Inductance-Current	1	0
Inductance-Temp	1	_
Resistance-Voltage	1	0
Qfactor-Frequency	1	0



Simulation results are following. Explanatory notes — : simulated

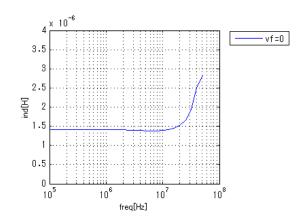
#### Inductancelf[Temp]

freq = 1000000Hz



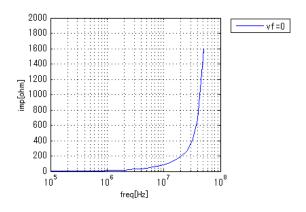
#### InductanceFreq[Vf]

temp = 20degC



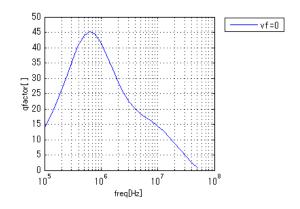
### ImpedanceFreq[Vf]

temp = 20degC

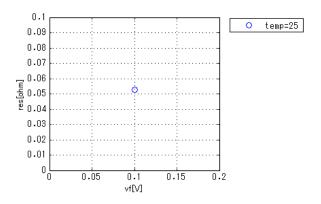


#### QfactorFreq[Vf]

Temp = 25degC



#### ResistanceVf[Temp]





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