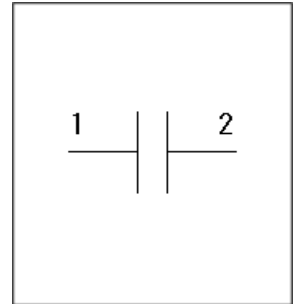


ADS Model

Ceramic Capacitor

MURATA

DE2E3SA103MN7AT02F



Model Information

Model An original macro model
Call Name MDC_DE2E3SA103MN7AT02F_AD
Pin Assign 1:1 2:2
File List Model Library MDC_DE2E3SA103MN7AT02F_AD01.lib
 Model Report MDC_DE2E3SA103MN7AT02F_AD.pdf (this file)

Verified Simulator Version ADS version 2016
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Unknown
- Product name DE2E3SA103MN7AT02F
- Company name Murata Manufacturing Co., Ltd.
- Characteristics CapVf[Freq],CapTemp[Vf],CapVac[Freq],CapFreq[Vf],ImpedanceFreq[Vf],ESRFreq[Vf],InductanceFreq[Vf]

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.	to	Max.	
Temperature	-25	to	85	deg C

Capacitor

○ : Implemented
 × : Not Implemented
 — : Not applicable

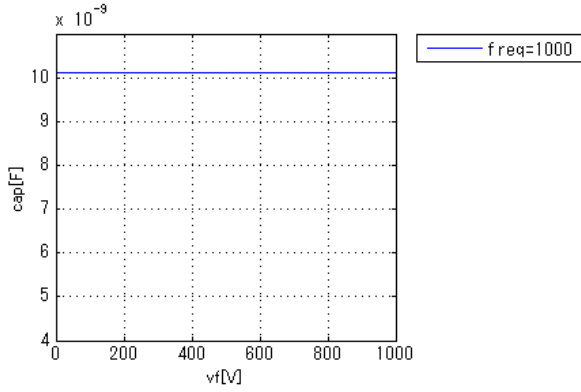
Model Functions Table

RANK=1

Functions	RANK	Implemented
Impedance-Frequency	1	○
ESR-Frequency	1	○
Capacitance-Frequency	1	○
Inductance-Frequency	1	○
Capacitance-Voltage	1	○
Capacitance-Temperature	1	○

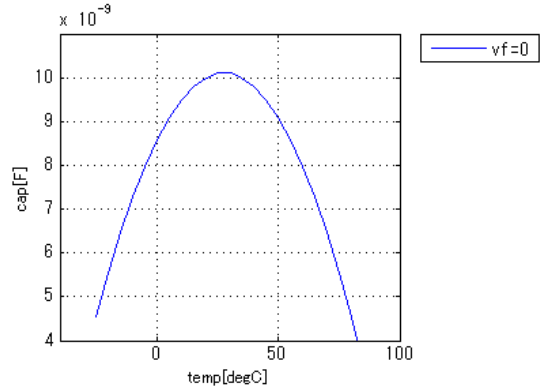
Simulation results are following.
 Explanatory notes — : simulated

CapVf[Freq]



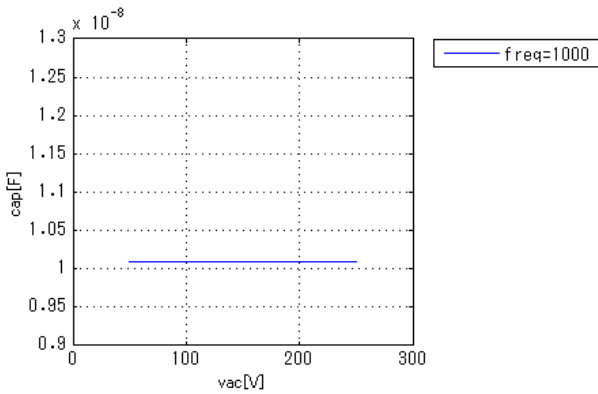
CapTemp[Vf]

Freq = 1000Hz



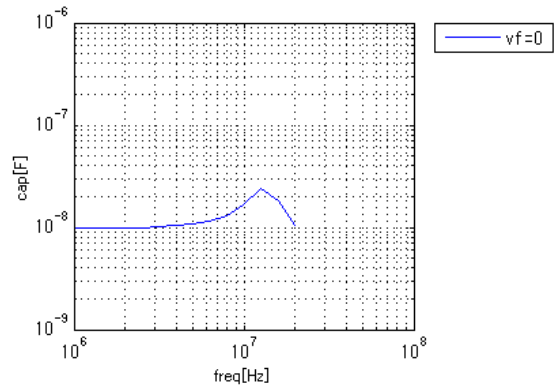
CapVac[Freq]

Vf = 0V



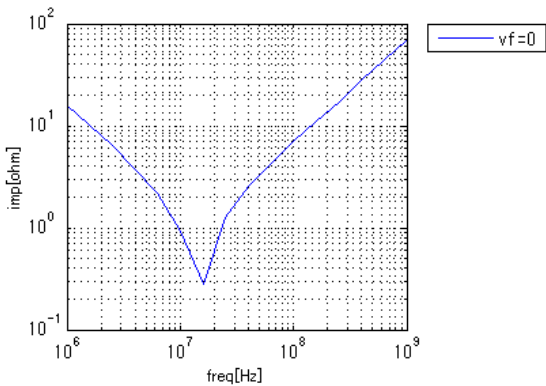
CapFreq[Vf]

Temp = 25degC



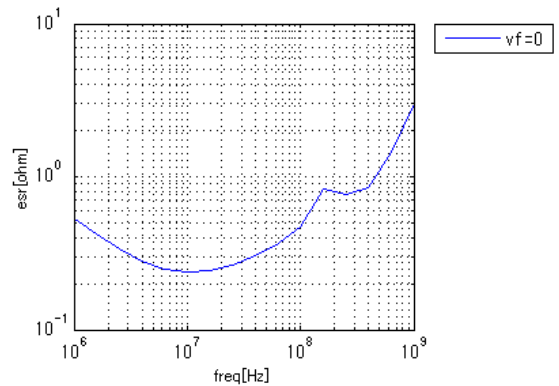
ImpedanceFreq[Vf]

temp = 25degC



ESRFreq[Vf]

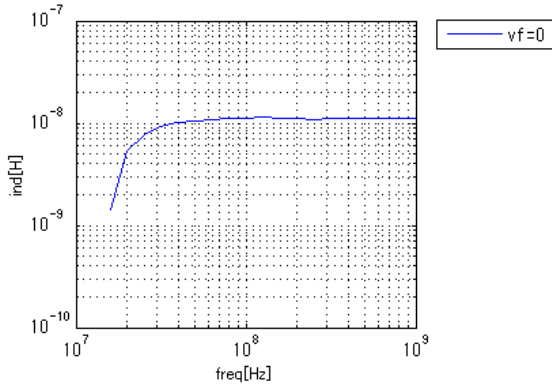
temp = 25degC



Simulation results are following.
Explanatory notes — : simulated

InductanceFreq[Vf]

temp = 25degC



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