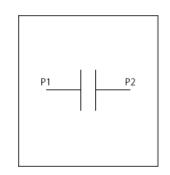


PSpice Model Film Capacitor NISSEI MPXC0450J2250000P045



Model Information

Model An original macro model

Call Name MDC_MPXC0450J2250000P045_PS

Pin Assign 1:P1 2:P2

File List Model Library MDC_MPXC0450J2250000P045_PS01.lib

Model Report MDC_MPXC0450J2250000P045_PS.pdf (this file)

Verified Simulator Version PSp

Note

PSpice version 17.2

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version March 1, 2012

Product nameCompany nameMPXC0450J2250000P045NISSEI Electric Co., Ltd.

●Characteristics CapVf,CapTemp[Vf],CapVac,ImpedanceFreq[Vf],ESRFreq[V

f],InductanceFreq[Vf],CapFreq[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	105	deg C



Model Functions Table

Capacitor

O: Implemented

×:Not Implemented

—: Not applicable

RANK=1

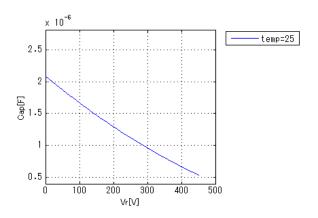
	NAINK-1	
Functions	RANK	Implemented
Impedance-Frequency	1	0
ESR-Frequecy	1	0
Capacitance-Frequency	1	0
Inductance-Frequency	1	0
Capacitance-Voltage	1	0
Capacitance-Temp	1	0
Capacitance-Vac	1	0
Resistance-Voltage	1	0



Simulation results are following. Explanatory notes — : simulated

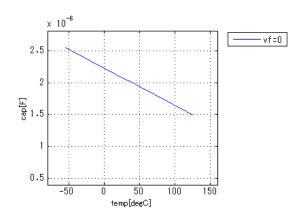
CapVf

Freq = 1000Hz



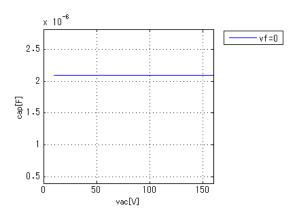
CapTemp[Vf]

Freq = 1000Hz



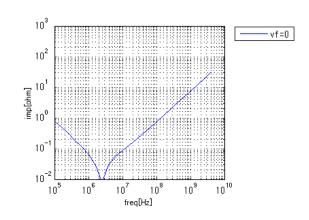
CapVac

Freq = 1000Hz, VF = 0V



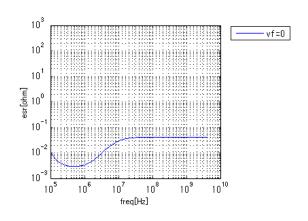
ImpedanceFreq[Vf]

temp = 25degC



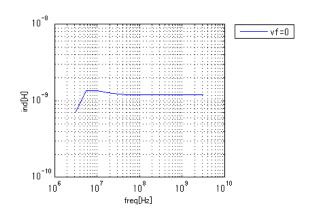
ESRFreq[Vf]

temp = 25degC



InductanceFreq[Vf]

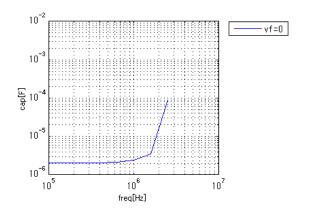
temp = 25degC



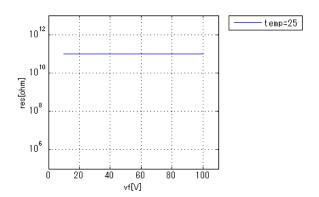


Simulation results are following. Explanatory notes — : simulated

CapFreq[Vf]



ResistanceVf[Temp]





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