

LTspice Model

Aluminum Electrolytic Capacitor

NICHICON

UHE1V221MPD1TA

Model Information

Model An original macro model
Call Name MDC_UHE1V221MPD1TA_LT
Pin Assign 1:1 2:2
File List Model Library MDC_UHE1V221MPD1TA_LT02.lib
 Model Report MDC_UHE1V221MPD1TA_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 Unknown
- Product name UHE1V221MPD1TA
- Company name NICHICON CORPORATION
- Characteristics ImpedanceFreq,ESRFreq,CapacitanceFreq,InductanceFreq

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.	
Frequency	100	to	1G	Hz
Temperature	25	to	25	deg C

Capacitor

○ : Implemented
 × : Not Implemented
 — : Not applicable

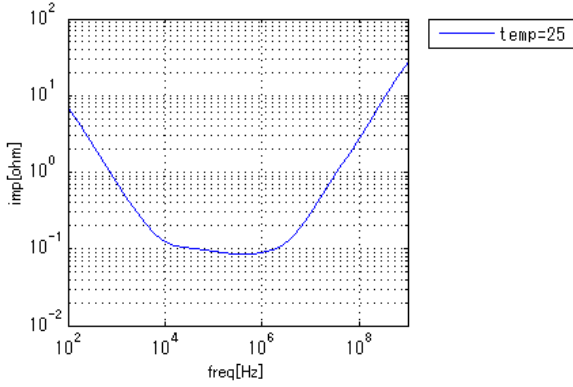
Model Functions Table

RANK=1

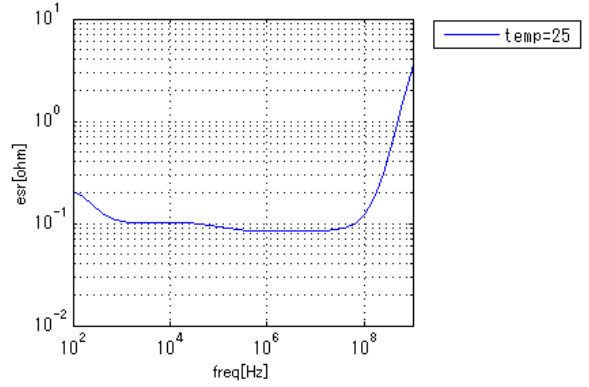
Functions	RANK	Implemented
Impedance-Frequency	1	○
ESR-Frequency	1	○
Capacitance-Frequency	1	○
Inductance-Frequency	1	○

Simulation results are following.
 Explanatory notes — : simulated

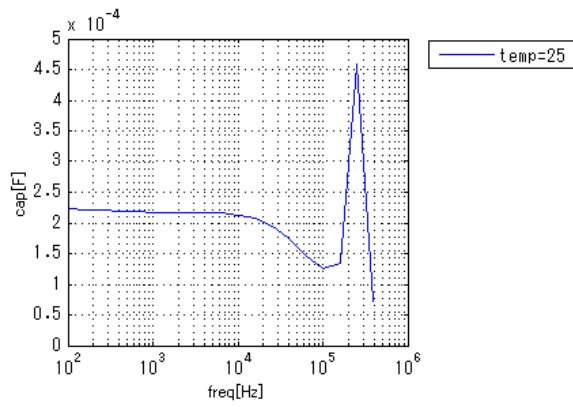
Impedance-Freq



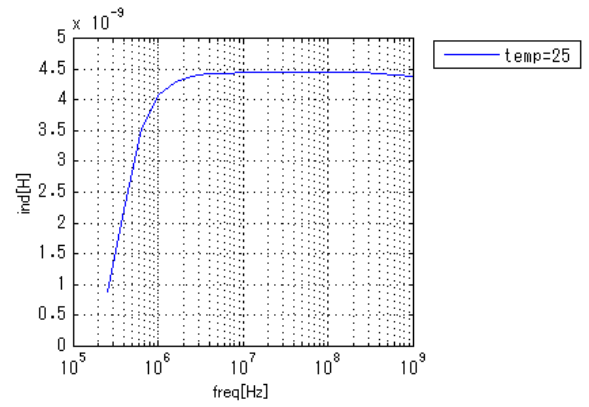
ESR-Freq



Capacitance-Freq



Inductance-Freq



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MoDeCH Inc.

Head Office

Location: 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:<http://www.modech.com/en/>