

LTspice Model

Capacitor

SAMSUNG ELECTRO-MECHANICS

CL05A105KA5NQPC

Model Information

Model	A macro model	
Call Name	MDC_CL05A105KA5NQPC_LT	
Pin Assign	1:1 2:2	
File List	Model Library	MDC_CL05A105KA5NQPC_LT.lib
	Model Report	MDC_CL05A105KA5NQPC_LT.pdf(this file)
Verified Simulator Version	LTspice XVII	

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version
- Product name CL05A105KA5NQPC
- Company name Samsung Electro-Mechanics

[Characteristics listed]

- Characteristics Capacitance , Impedance - Frequency

Simulation Condition

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

○ : Implemented
 × : Not Implemented
 — : Not applicable

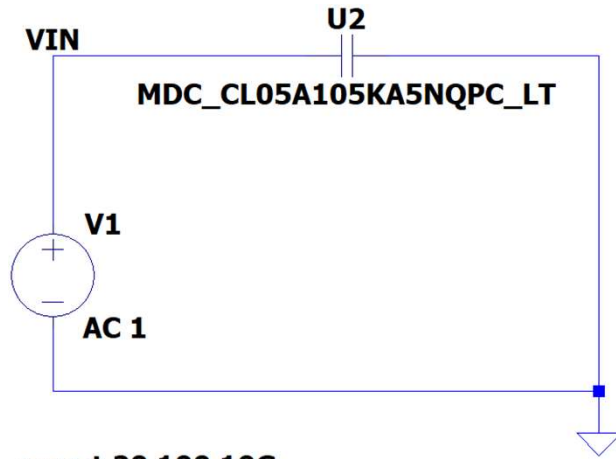
Model Functions Table

RANK=1

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

Capacitance , Impedance-Frequency Testbench

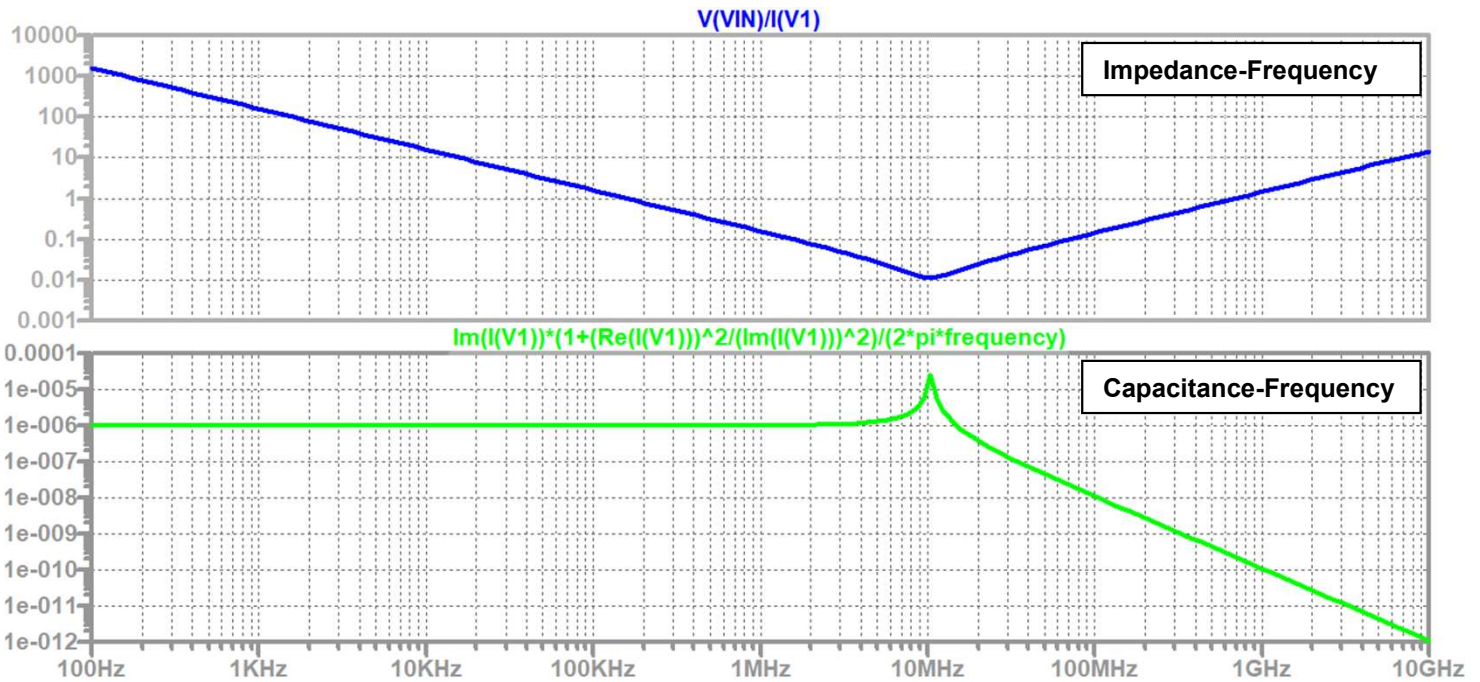
Referred to Data Sheet



```
.ac oct 20 100 10G
.option TNOM=25
.temp 25
```

Simulation results are following.
 Explanatory notes — : simulated

Capacitance , Impedance-Frequency



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