

# LTspice Model Common-mode choke coil SANWA MUSEN Co., Ltd. CMR252022

# **Model Information**

Model A macro model

Call Name MDC\_CMR252022\_LT

**Pin Assign** 1:S 2:F 3:s 4:f

File List Model Library MDC\_CMR252022\_LT01.lib

Model Report MDC\_CMR252022\_LT.pdf(this file)

Verified Simulator Version LTspice 17.1.8

Note

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version

Product name CMR252022

Company name
SANWA MUSEN Co., Ltd.

[Characteristics listed]

• Characteristics Frequency response of Impedance Frequency response of Inductance

#### **Simulation Condition**

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

| ltana       |     | l loit |     |       |
|-------------|-----|--------|-----|-------|
| ltem        | Min | Тур    | Max | Unit  |
| Temperature | -40 |        | 120 | deg C |





**Model Functions Table** 

# Choke coil

O: Implemented

×: Not Implemented

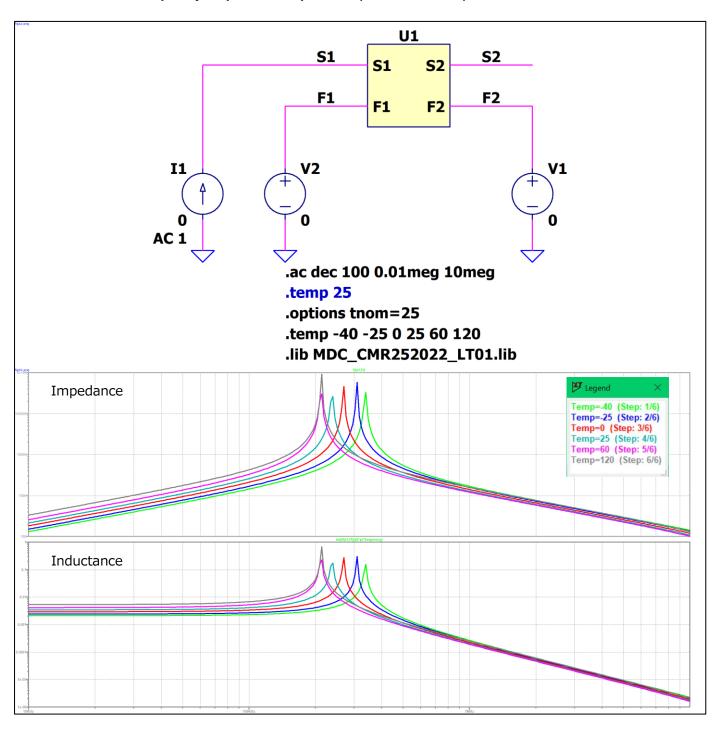
—: Not applicable

| _ |                 |          |      |     |
|---|-----------------|----------|------|-----|
|   | $\Lambda$       | <b>N</b> | 1/ _ | _ 1 |
| - | $\Delta \Delta$ |          | к -  |     |
|   |                 |          | K=   |     |

| Functions                        | RANK  | Implemented |
|----------------------------------|-------|-------------|
| Functions                        | NAINK | Implemented |
| Frequency response of impedance  | 1     | 0           |
| Frequency response of inductance | 1     | 0           |

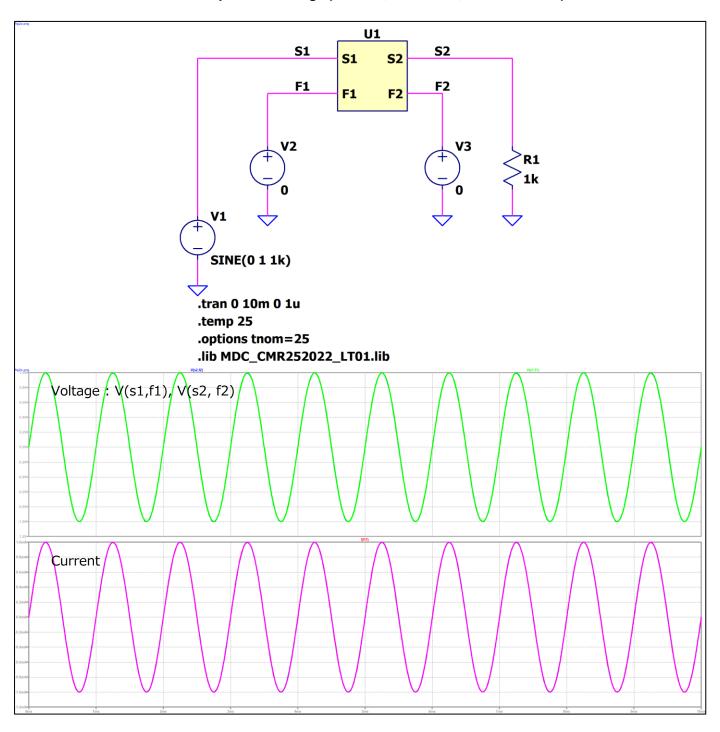


### Testbench for frequency response of impedance (DC current = 0A)





Testbench for transient response of voltage (Vm = 1V, Fin = 1kHz, Rload = 1kohm)





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