

# LTspice Model

## Power Choke Coil

### Cyntec

### VCTA32251B-6R8MS6



### Model Information

<b>Model</b>	A macro model		
<b>Call Name</b>	MDC_VCTA32251B-6R8MS6_LT		
<b>Pin Assign</b>	1:1 2:2		
<b>File List</b>	Model Library	MDC_VCTA32251B-6R8MS6_LT01.lib	
	Model Report	MDC_VCTA32251B-6R8MS6_LT.pdf (this file)	
<b>Verified Simulator Version</b>	LTspice version XVII		
<b>Note</b>			

### References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Oct., 2020
- Product name VCTA32251B-6R8MS6
- Company name Cyntec Co., Ltd.
- Characteristics InductanceI[Temp], ResistanceI[Temp], InductanceFreq[Vf], ImpedanceFreq[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.		Max.	
Temperature	-55	to	165	deg C

Inductor

○ : Implemented  
 × : Not Implemented  
 — : Not applicable

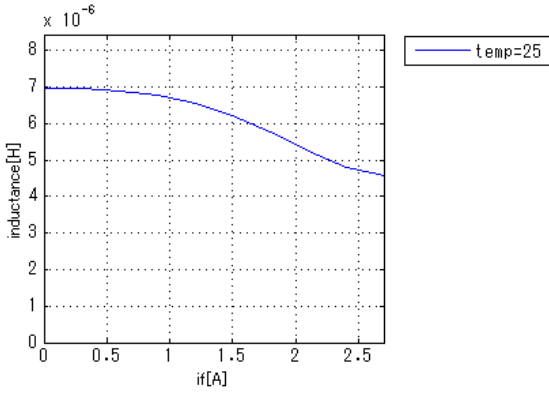
**Model Functions Table**
**RANK=1**

Functions	RANK	Implemented
Impedance-Frequency	1	○
Inductance-Frequency	1	○
Inductance-Current	1	○
Inductance-Temp	1	—
Resistance	1	○

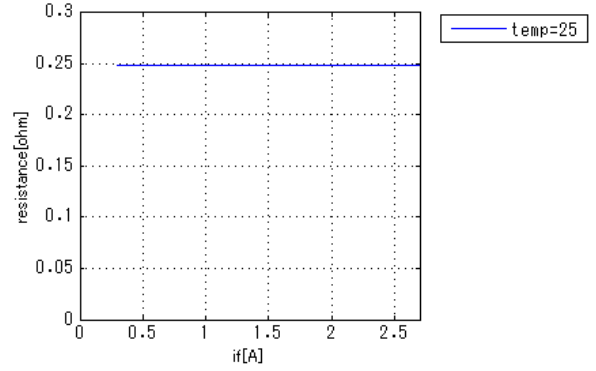
Simulation results are following.  
 Explanatory notes — : simulated

**InductanceI[Temp]**

freq = 1000000Hz

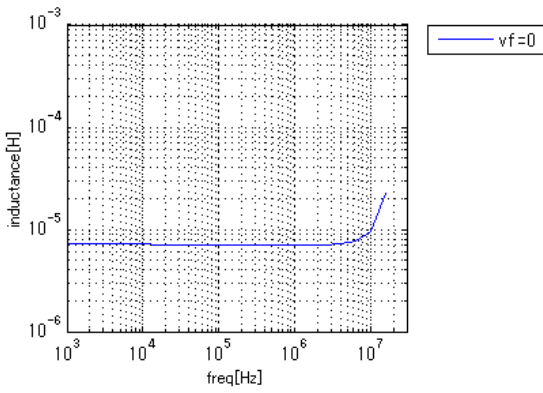


**ResistanceI[Temp]**



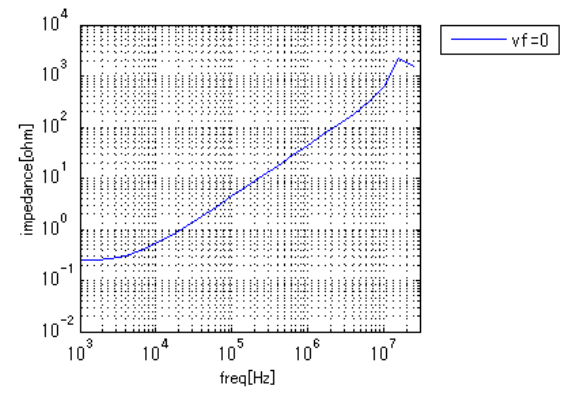
**InductanceFreq[Vf]**

temp = 25degC



**ImpedanceFreq[Vf]**

temp = 25degC



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