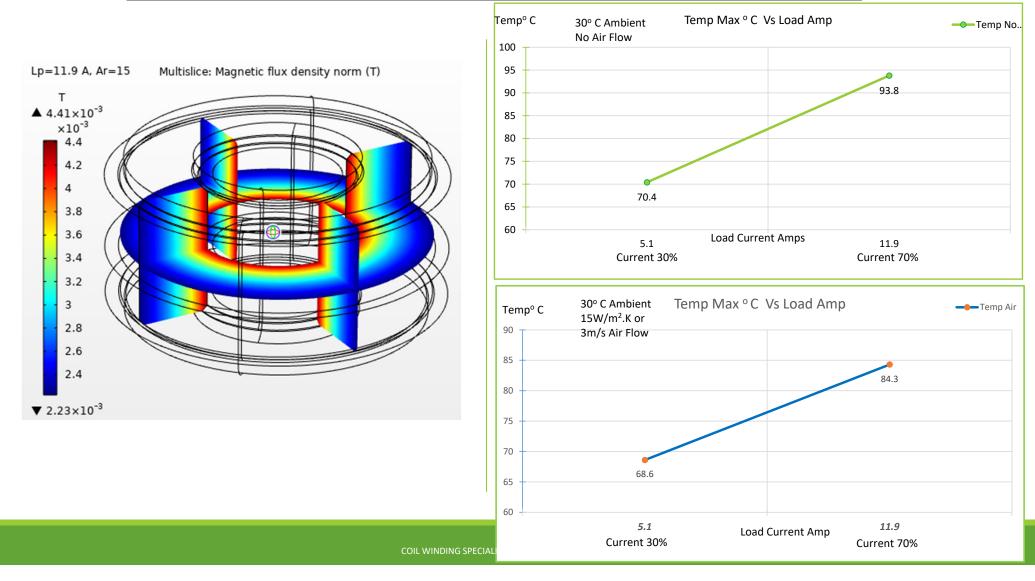


Thermal and Electromagnetics simulation – Part# SN270-270M-17.0AV– Current rated 17A @ 1kHz

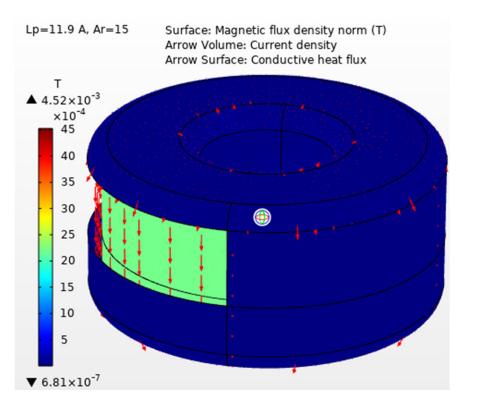


Thermal and Electromagnetics simulation – Part# SN270-270M-17.0AV– Current rated 17A @ 1kHz

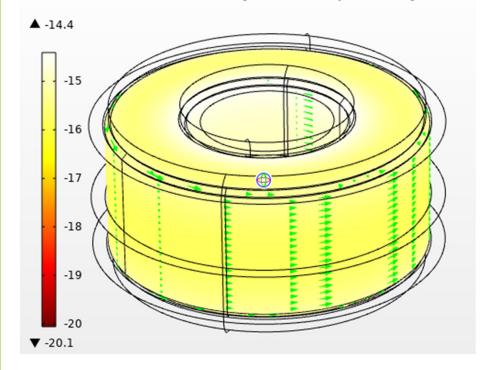
Thermal and Electromagnetics simulation – Part# SN270-270M-17.0AV– Current rated 17A @ 1kHz

Magnetics Flux in Coil

Magnetic Flux in Core



Lp=11.9 A, Ar=15 Arrow Volume: Magnetic flux density Volume: log(mf.normJ)



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Abbreviations

Ld : Current rated Amps

Ar : Airflow

W/m².K : Watts / Sq meter .Kelvin – Heat Convection rate

m/s : Meter/ Second - Airflow

degC : Temperature in Deg C

- T : Tesla Magnetic Flux density
- Temp : Temperature

Temp max: Temperature Maximum

- Amb : Ambient Temperature
- Amps : Ampere Load current.
- Slice : Sectional view

Note : For the modeling purpose the winding is considered as homogenous multilayer winding .

Disclaimer :

-Simulation MODEL is an effective tool for evaluating product performance by simulation; however, it does not simulate product performance in all test environments and is not intended to be a replacement for testing of the actual device by means of a test board or otherwise.

- Simulation results are for reference purposes only; CUSTOMER shall perform thorough testing using the actual device.

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