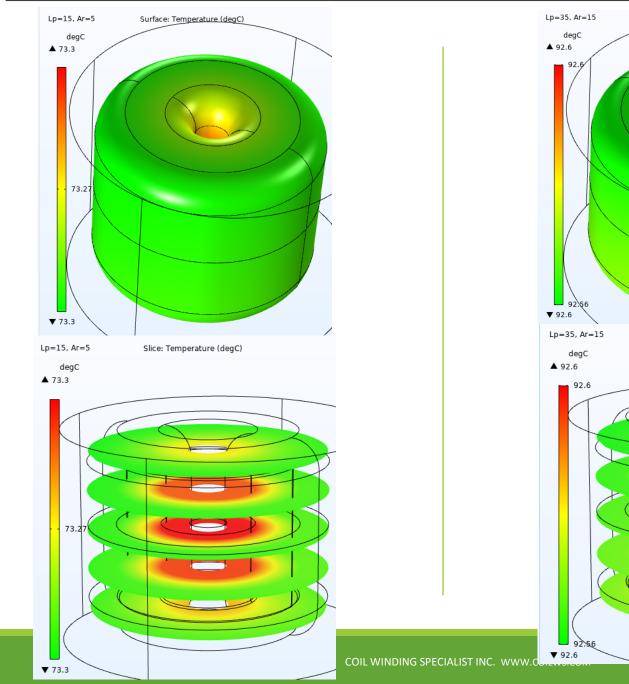
## Thermal and Electromagnetics simulation – Part # HF4672-101M-50AM– Current rated 50A @ 1kHz

Surface: Temperature (degC)

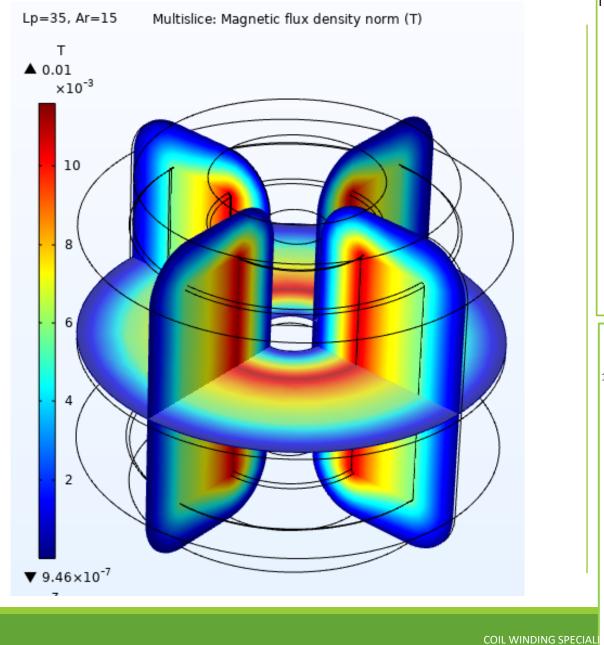
Slice: Temperature (degC)





Current 70% (35A) 15 W/ (m²K) or 3 m/s air flow.

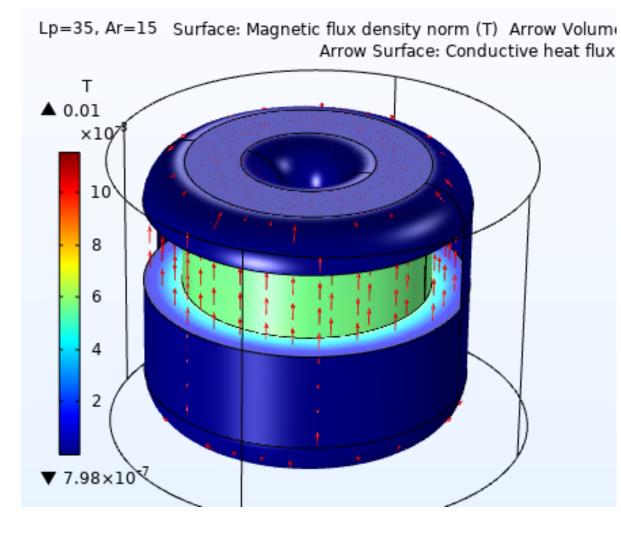
Thermal and Electromagnetics simulation – Part # HF4672-101M-50AM– Current rated 50A @ 1kHz

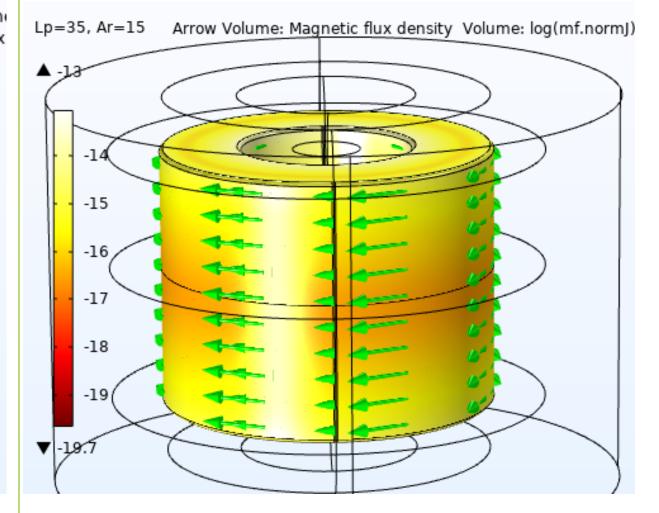




## Magnetics Flux in Coil

## Magnetic Flux in Core





## Abbreviations

- Ld : Current rated Amps
- Ar : Airflow
- W/m<sup>2</sup>.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 Homogeneous winding layer.

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.