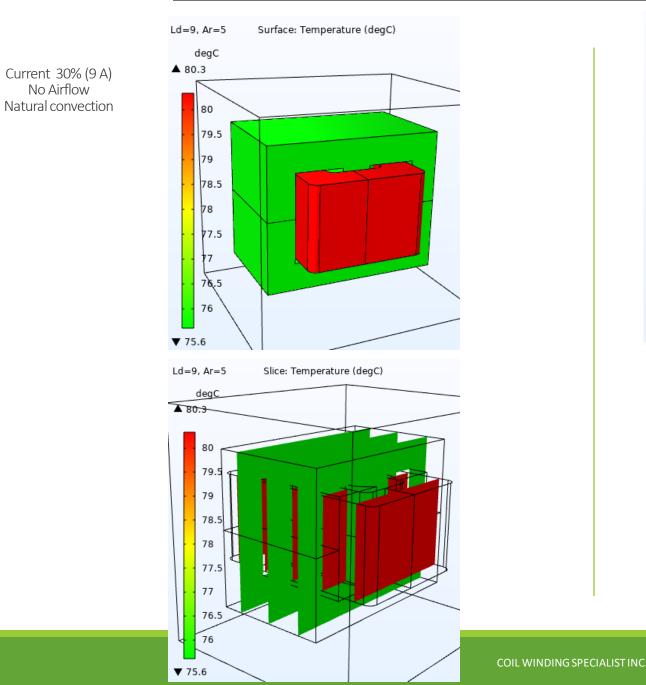
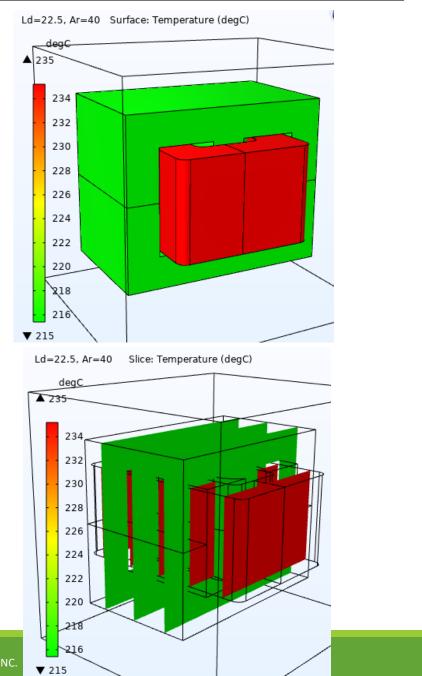
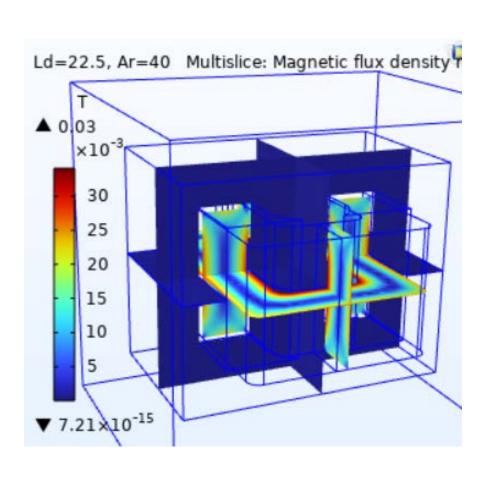
Thermal and Electromagnetics simulation – Part # HCS-143M-30A – Current rated 30A @ 10kHz





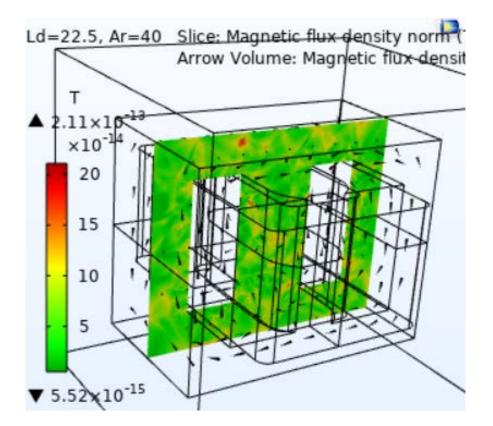
Current 75% (22.5A) 15 W/ (m²K) or 3 m/s air flow.

Thermal and Electromagnetics simulation – Part # HCS-143M-30A – Current rated 30A @ 10kHz





Thermal and Electromagnetics simulation – Part # HCS-143M-30A – Current rated 30A @ 10kHz



Coil Flux

Ld=22.5, Ar=40 Surface: Magnetic flux density nor Arrow Volume: Current density т ▲ 0.04 ×10⁻³ 35 30 25 20 15 10 5 ▼ 3.14×10⁻⁶



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

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.