

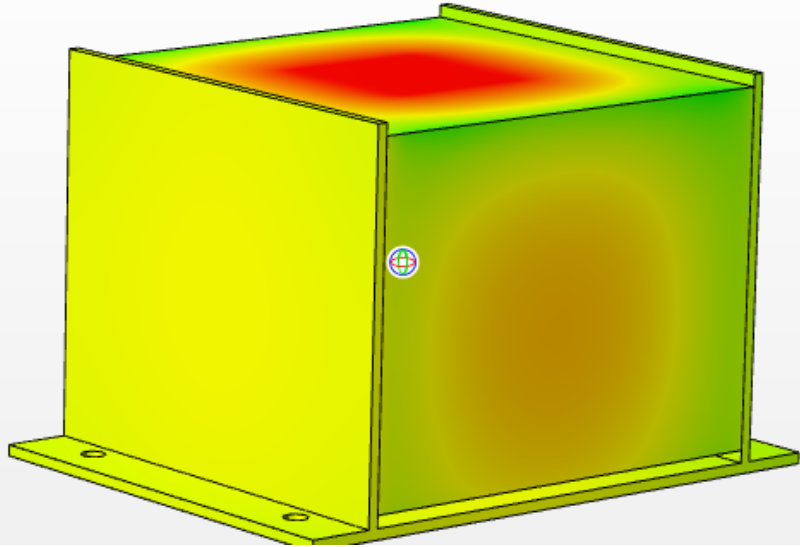
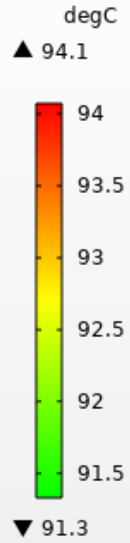
Current 30% (54 A)  
No Airflow  
Natural convection

# Thermal and Electromagnetics simulation – Part # EES55244-210M-180A – Current rated 180A @ 10kHz

Current 75% (135A)  
15 W/(m<sup>2</sup>K) or  
3 m/s air flow.

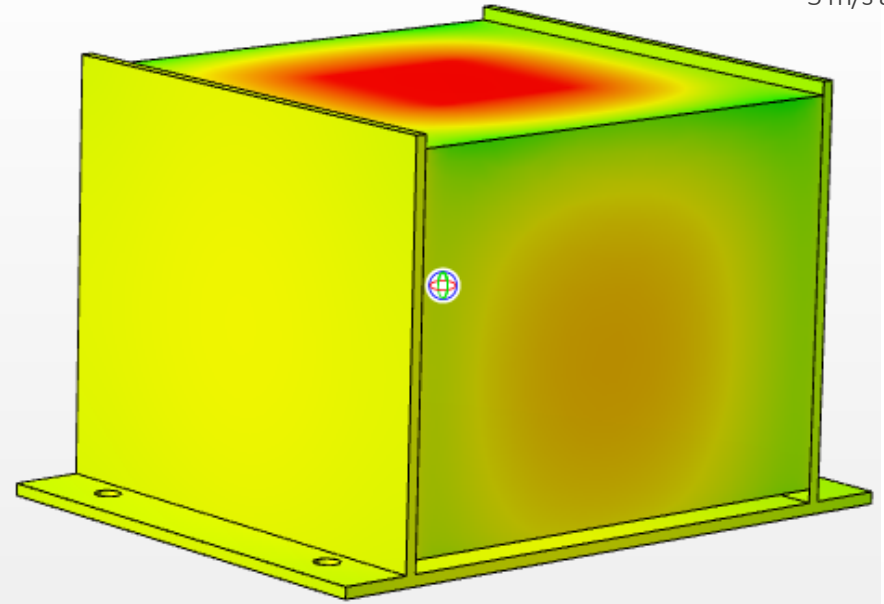
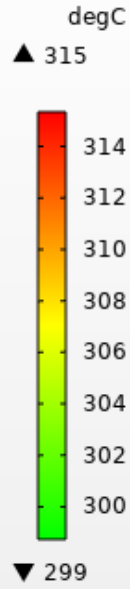
Ld=54 A, Ar=5

Surface: Temperature (degC)



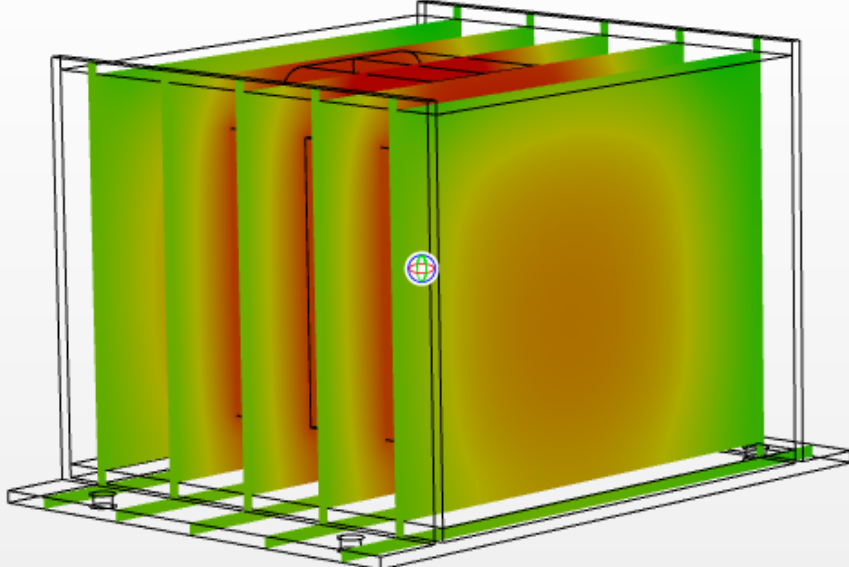
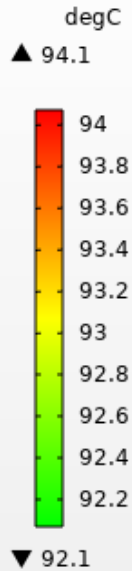
Ld=135 A, Ar=40

Surface: Temperature (degC)

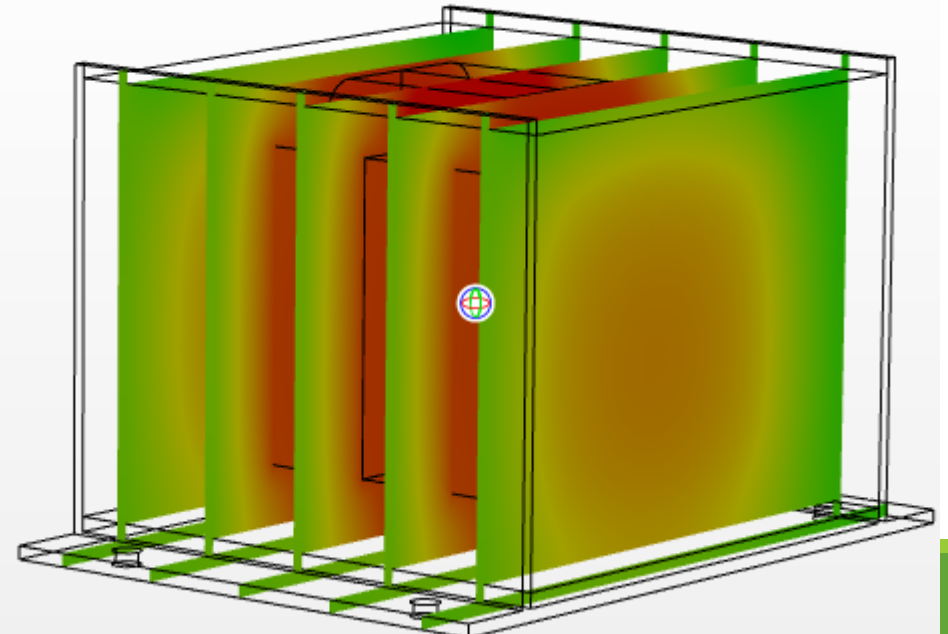
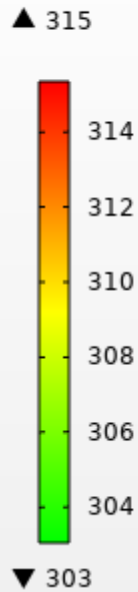


Ld=54 A, Ar=5

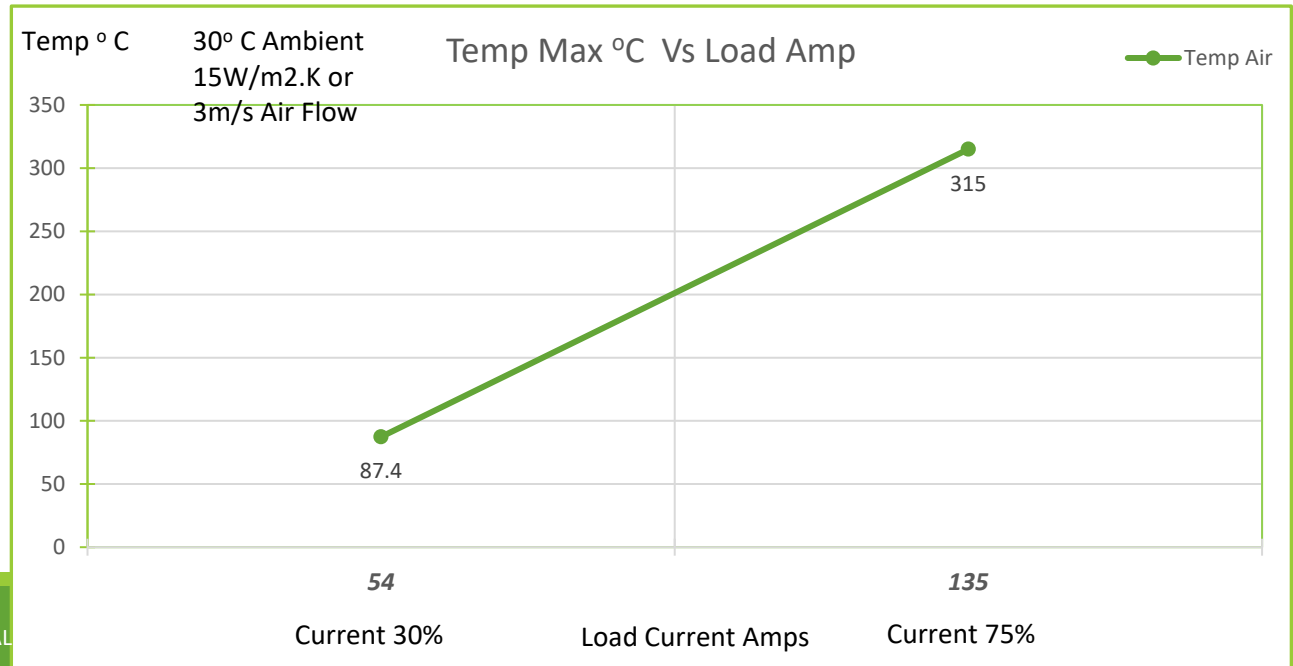
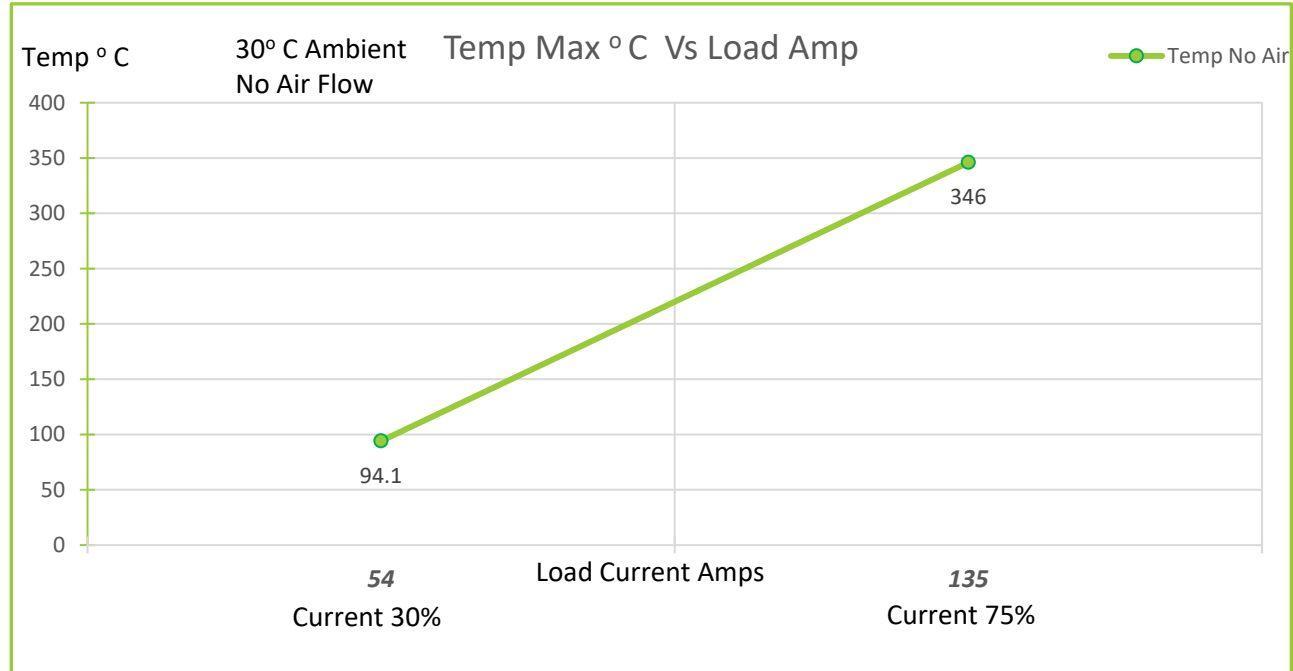
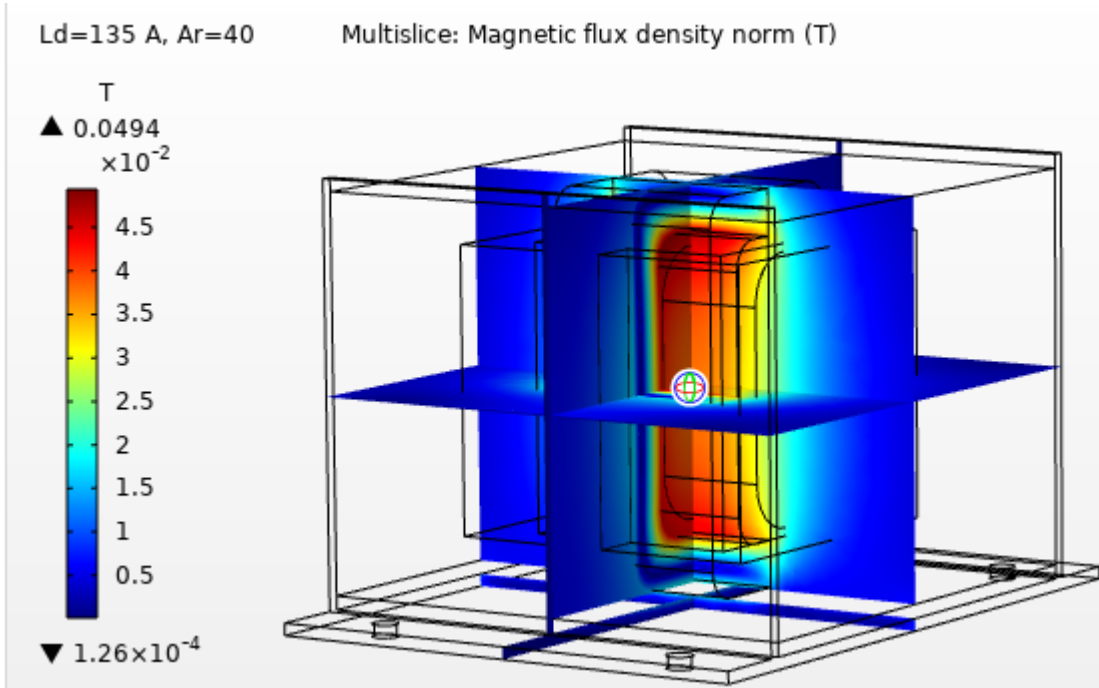
Slice: Temperature (degC)

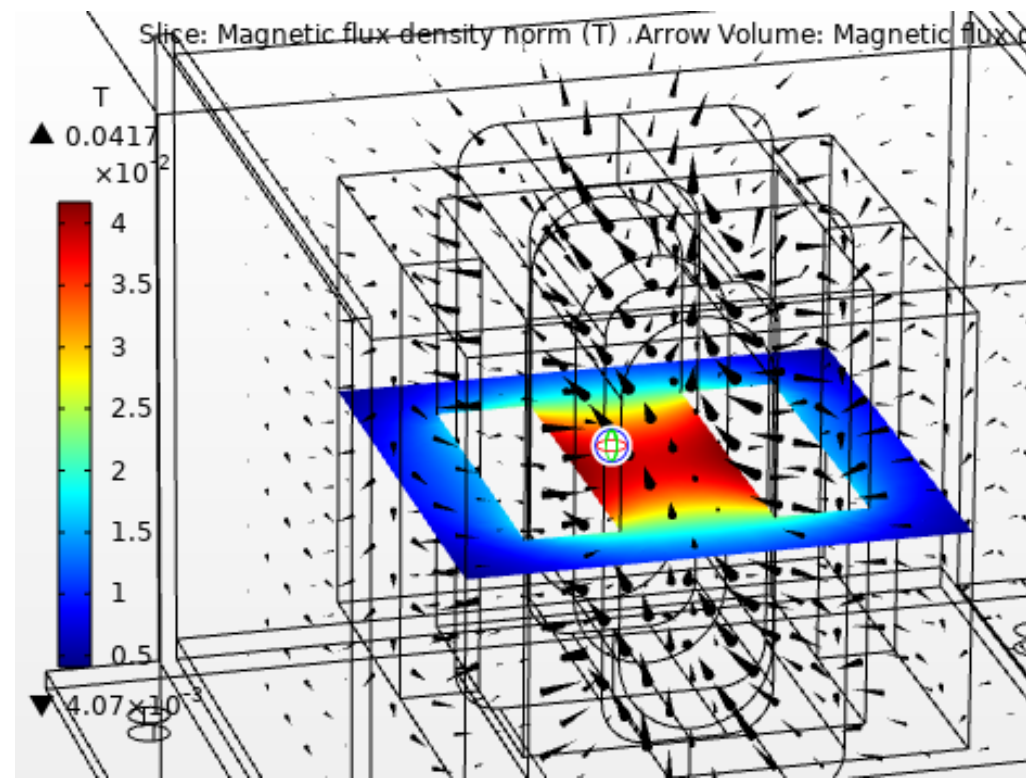
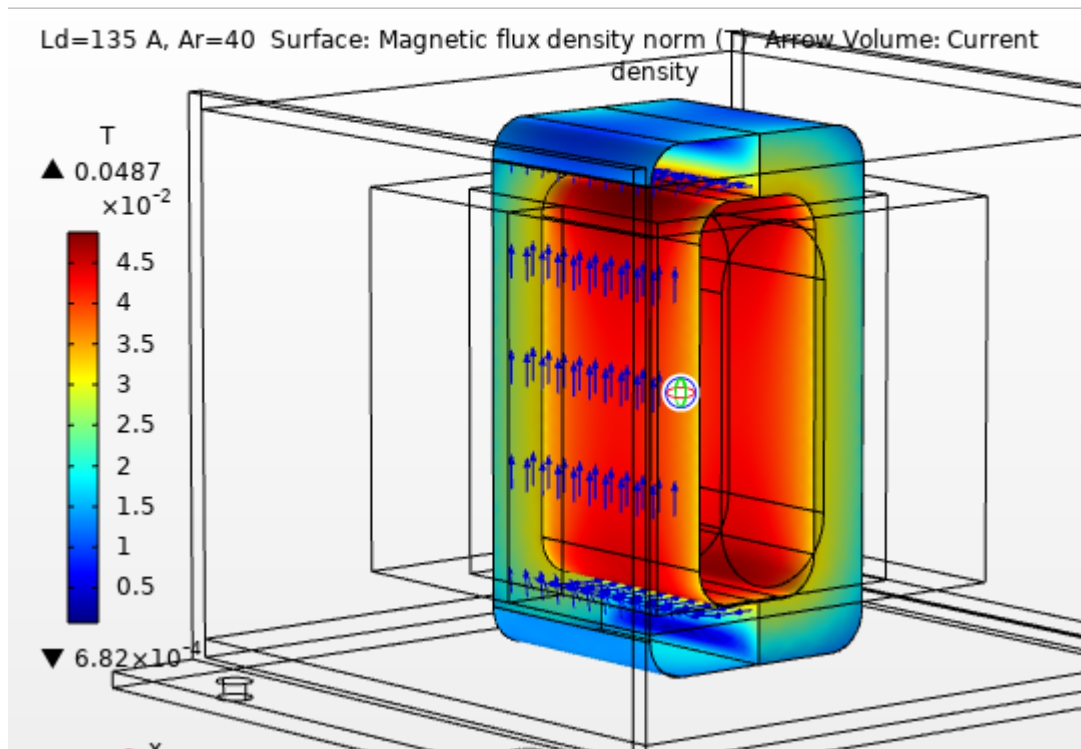


degC



# Thermal and Electromagnetics simulation – Part # EES55244-210M-180A – Current rated 180A @ 10kHz





# 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

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.