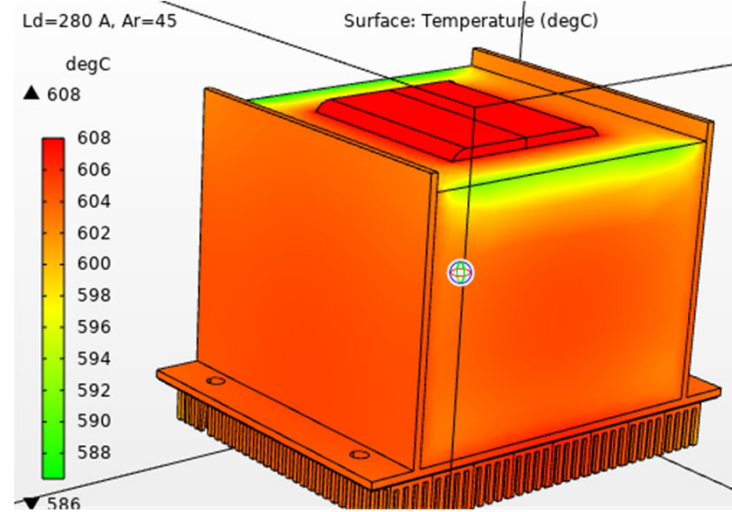
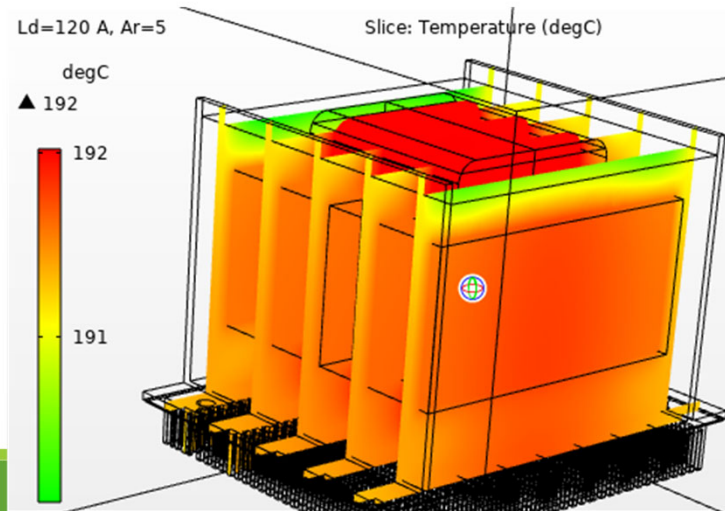
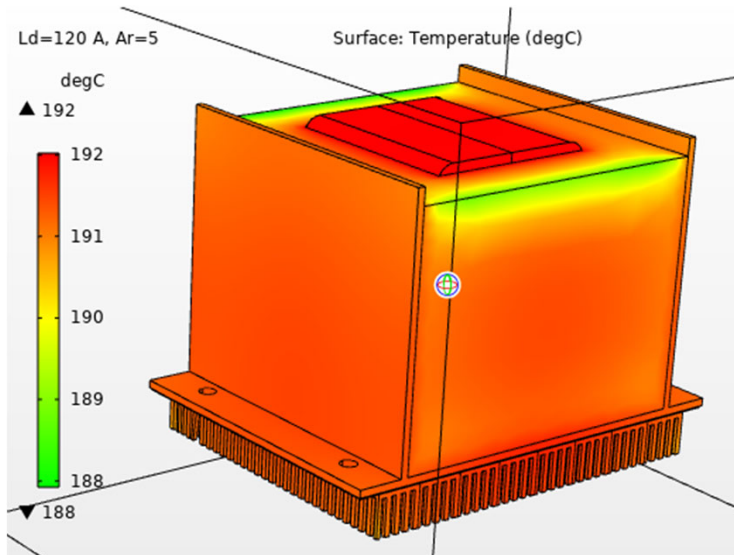


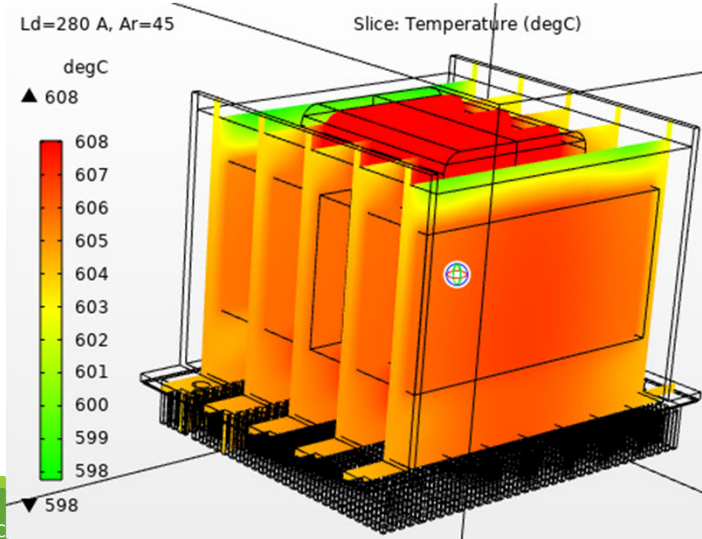
Thermal and Electromagnetics simulation – Part # ELCEK38A22-200A-400A– Current rated 400A @ 10kHz

Current 30% (120)
No Airflow
Natural convection



Current 70% (280A)
40 W/(m²K) or 15 m/s
air flow.

Additional
Thermal Heat
sink needed

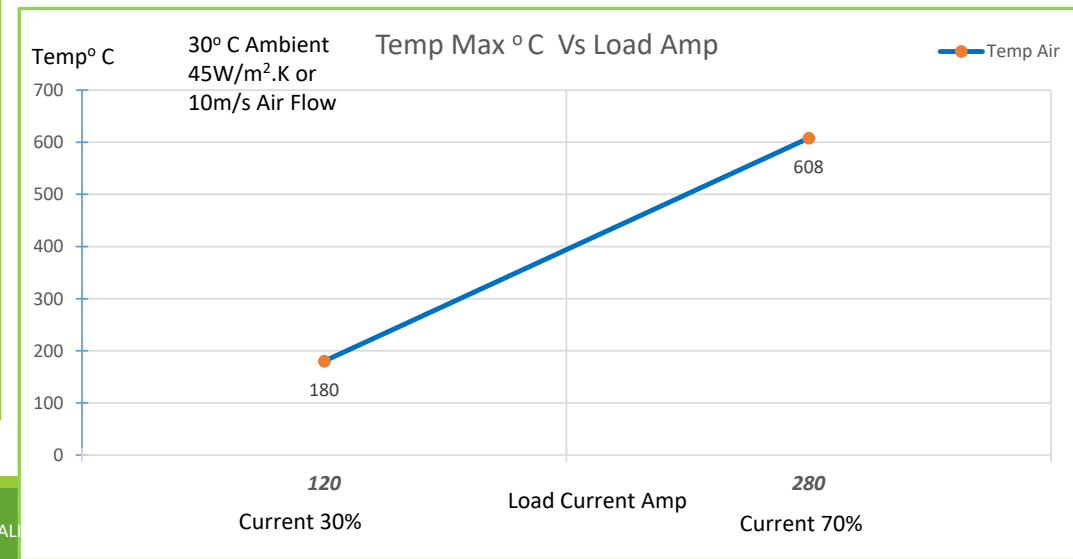
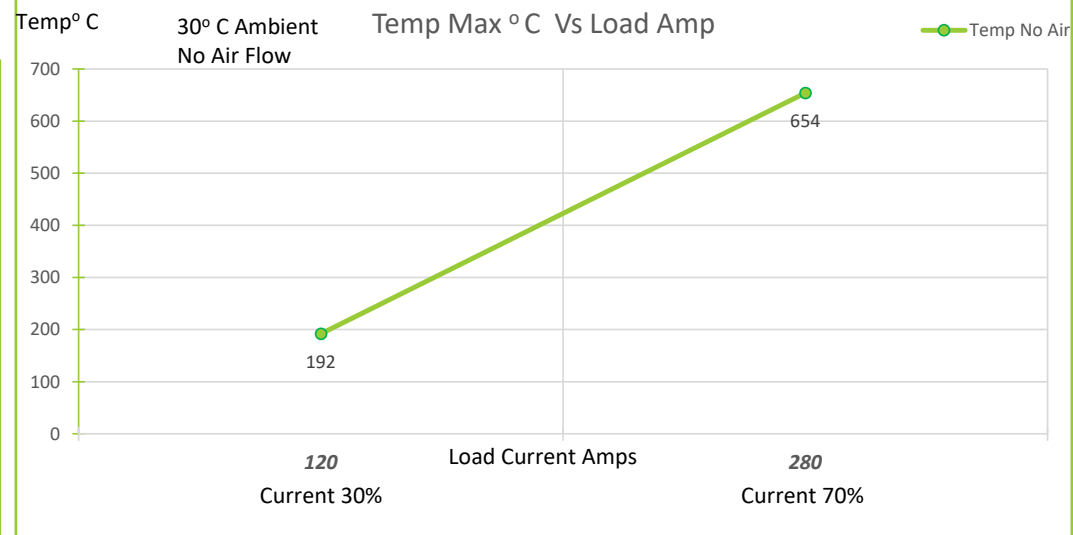
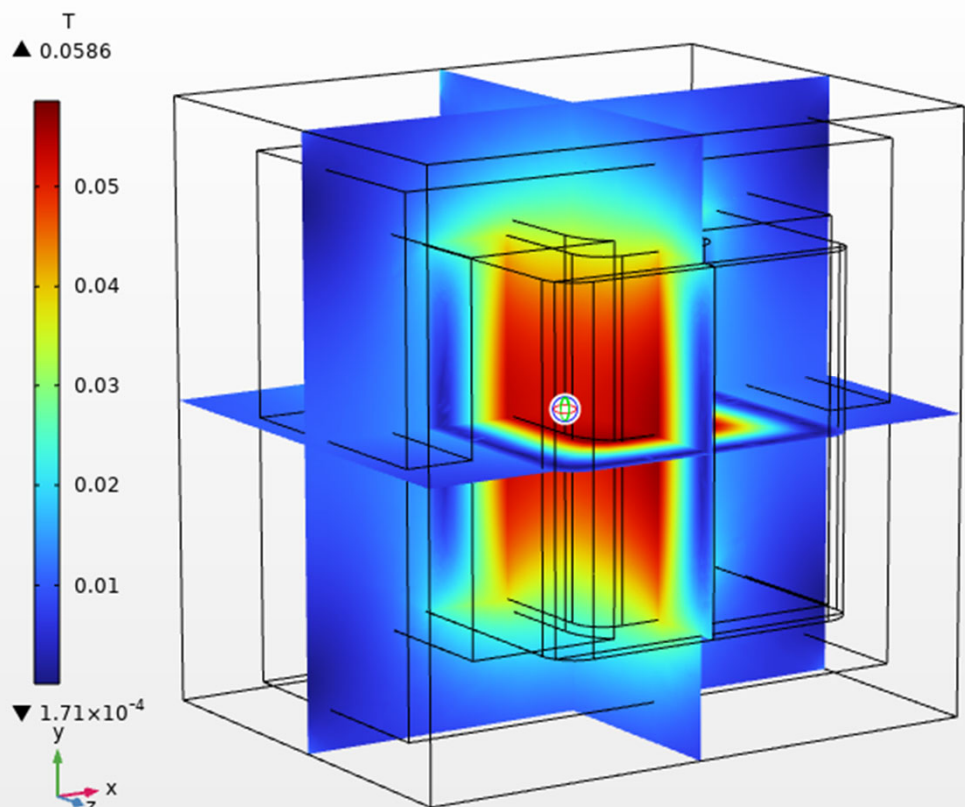


SPECIALIST INC

Thermal and Electromagnetics simulation – Part # ELCEK38A22-200A-400A– Current rated 400A @ 10kHz

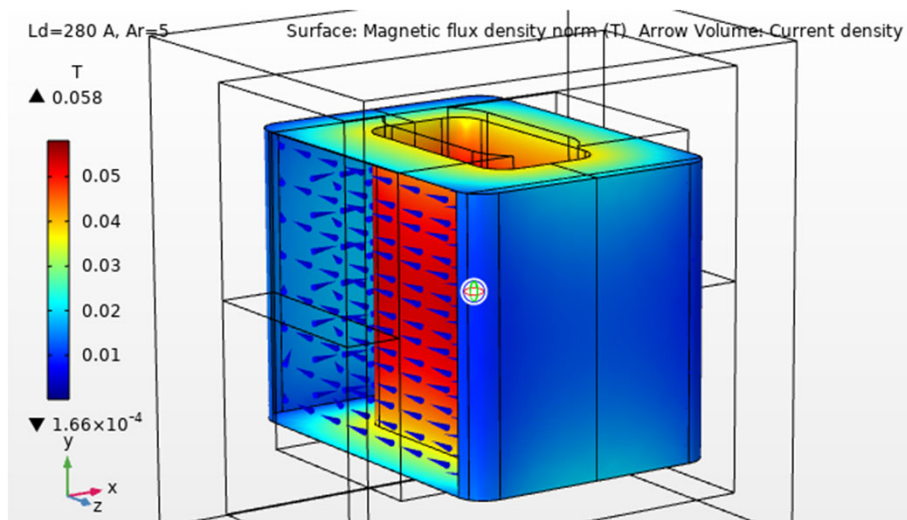
Ld=280 A, Ar=45

Multislice: Magnetic flux density norm (T)

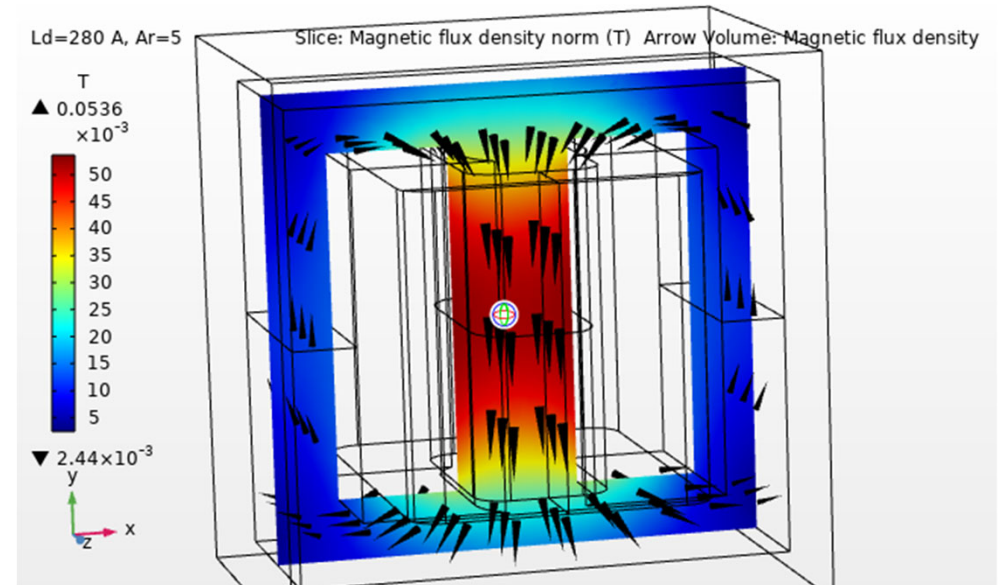


Thermal and Electromagnetics simulation – Part # ELCEK38A22-200A-400A– Current rated 400A @ 10kHz

COIL FLUX



CORE FLUX



Abbreviations

Ld	: Current rated Amps
Ar	: Airflow
W/m ² .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.