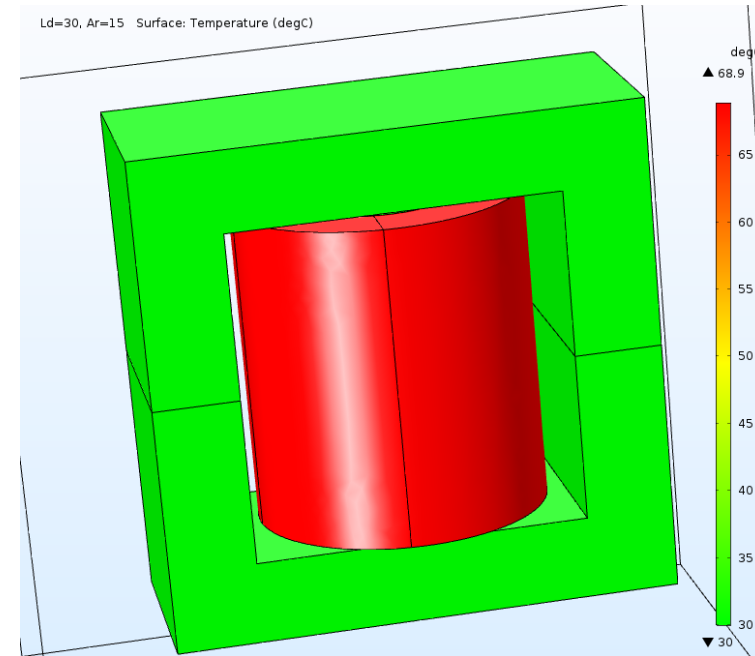
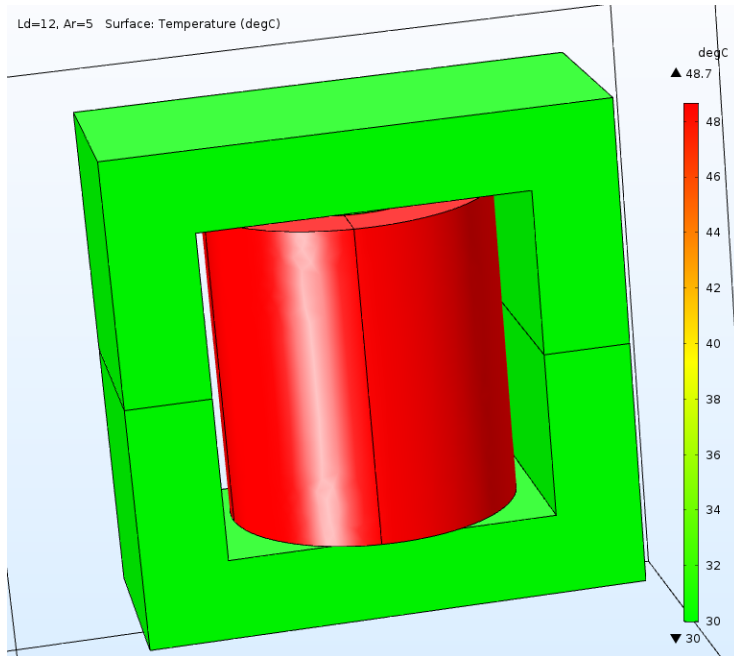
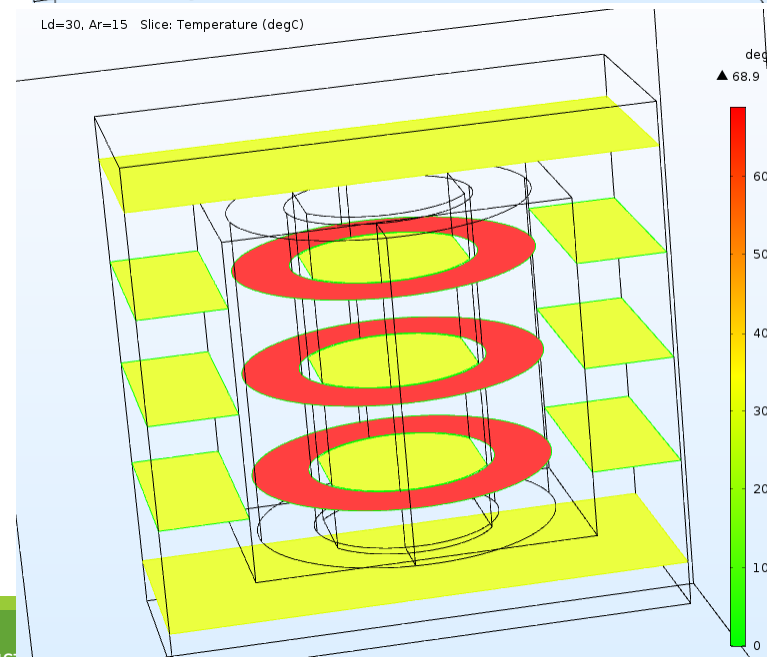
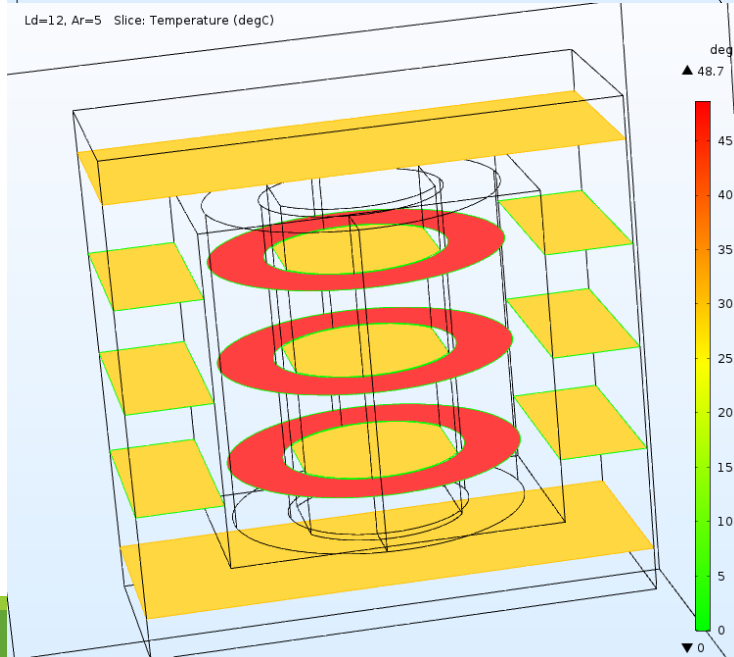


Thermal and Electromagnetics simulation – Part # ES55246-221M-40AH – Current rated 40A @ 10kHz

Current 30% (12 A)
No Airflow
Natural convection

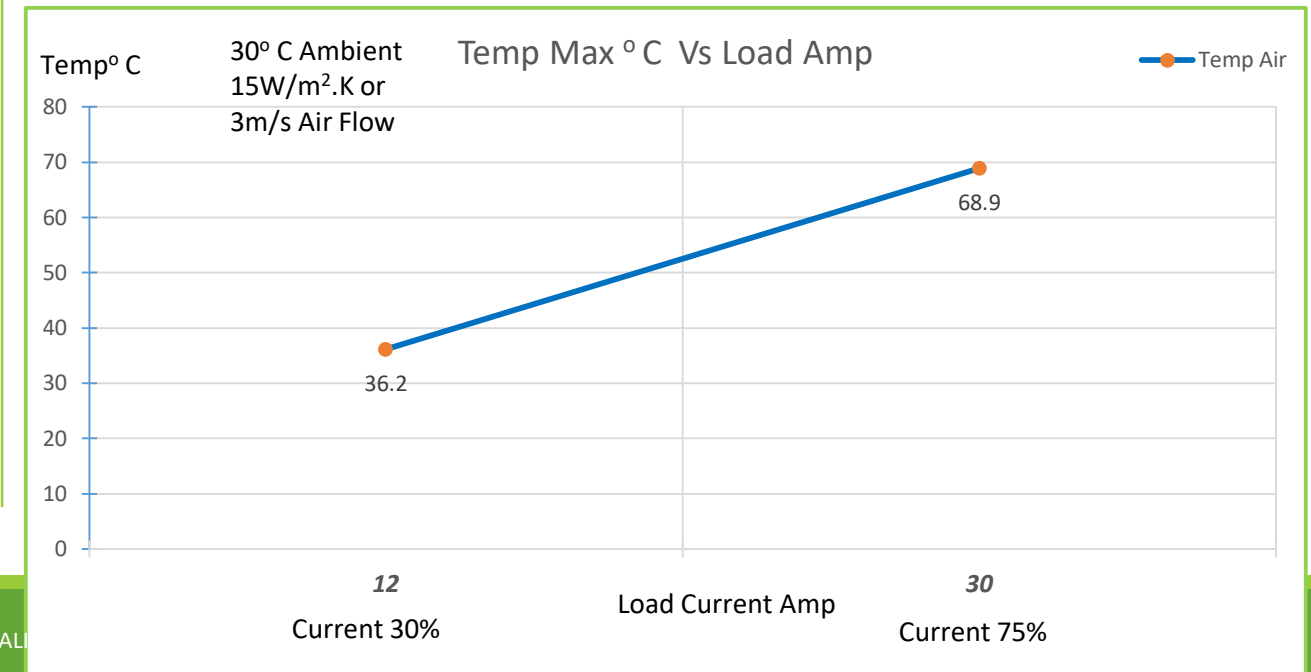
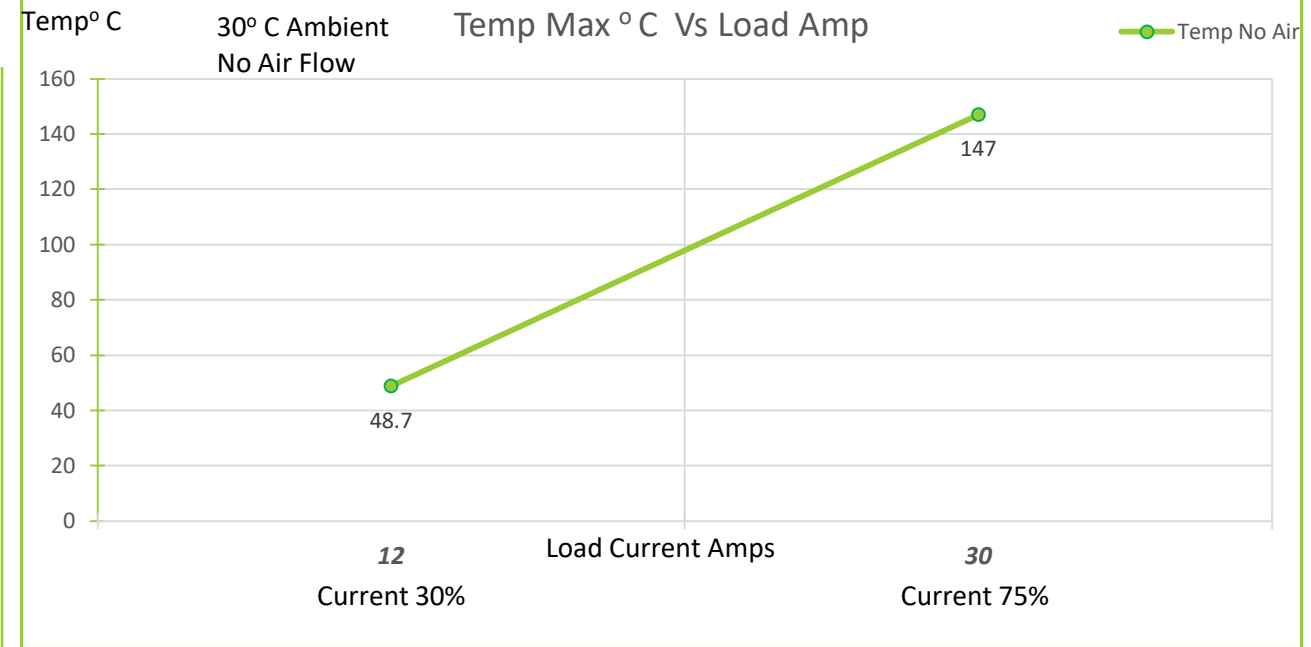
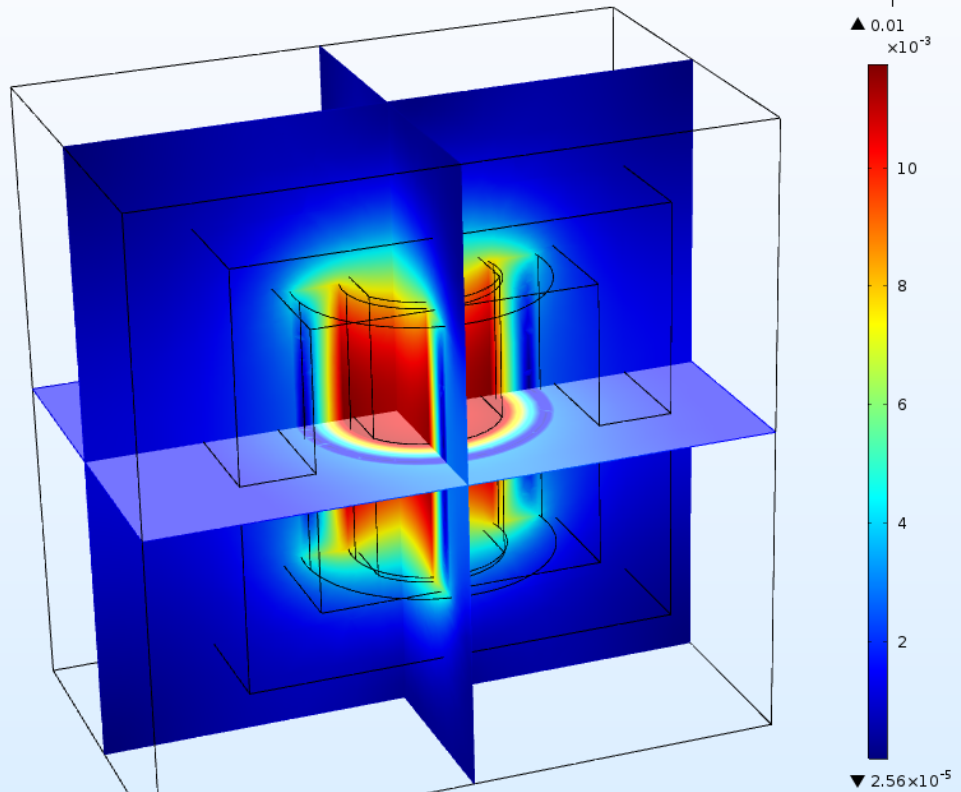


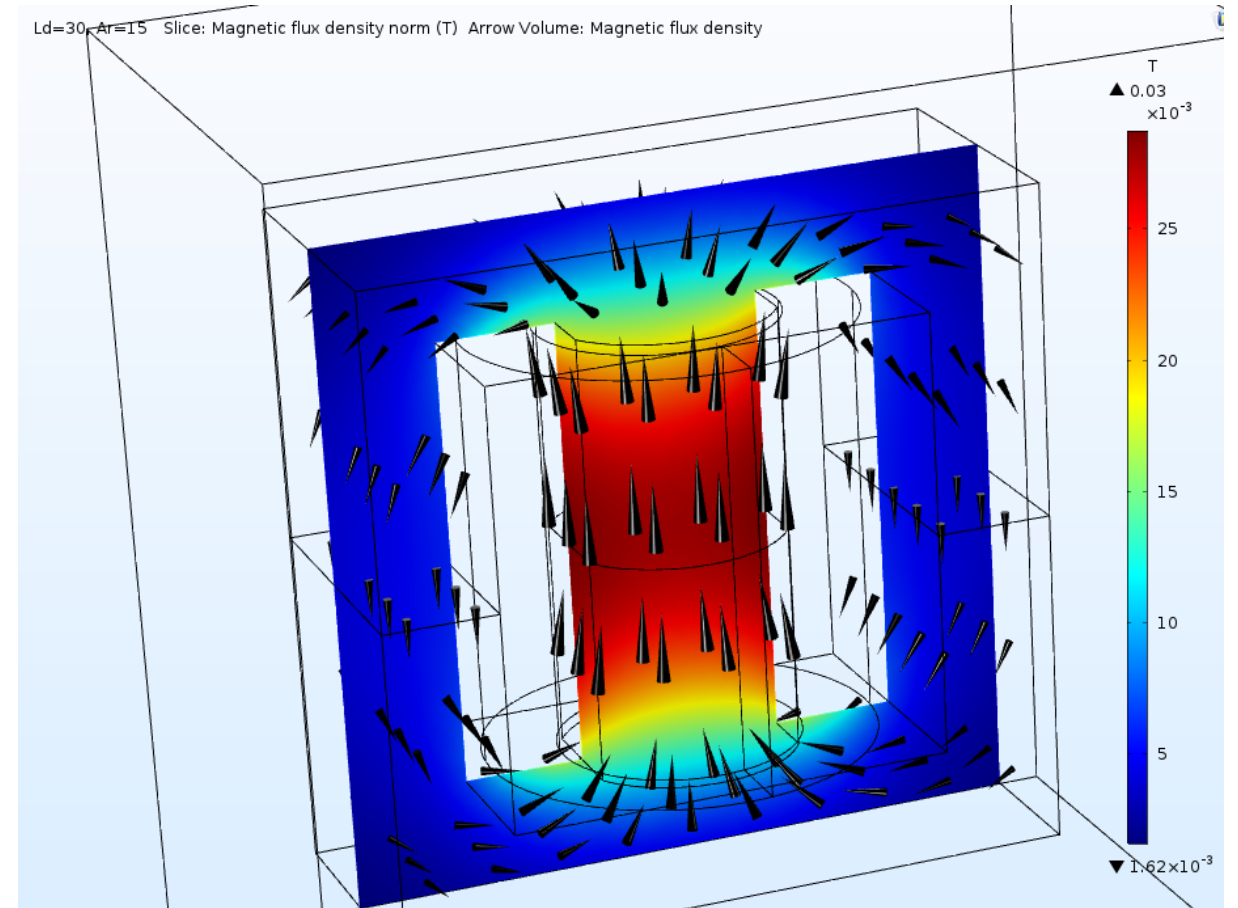
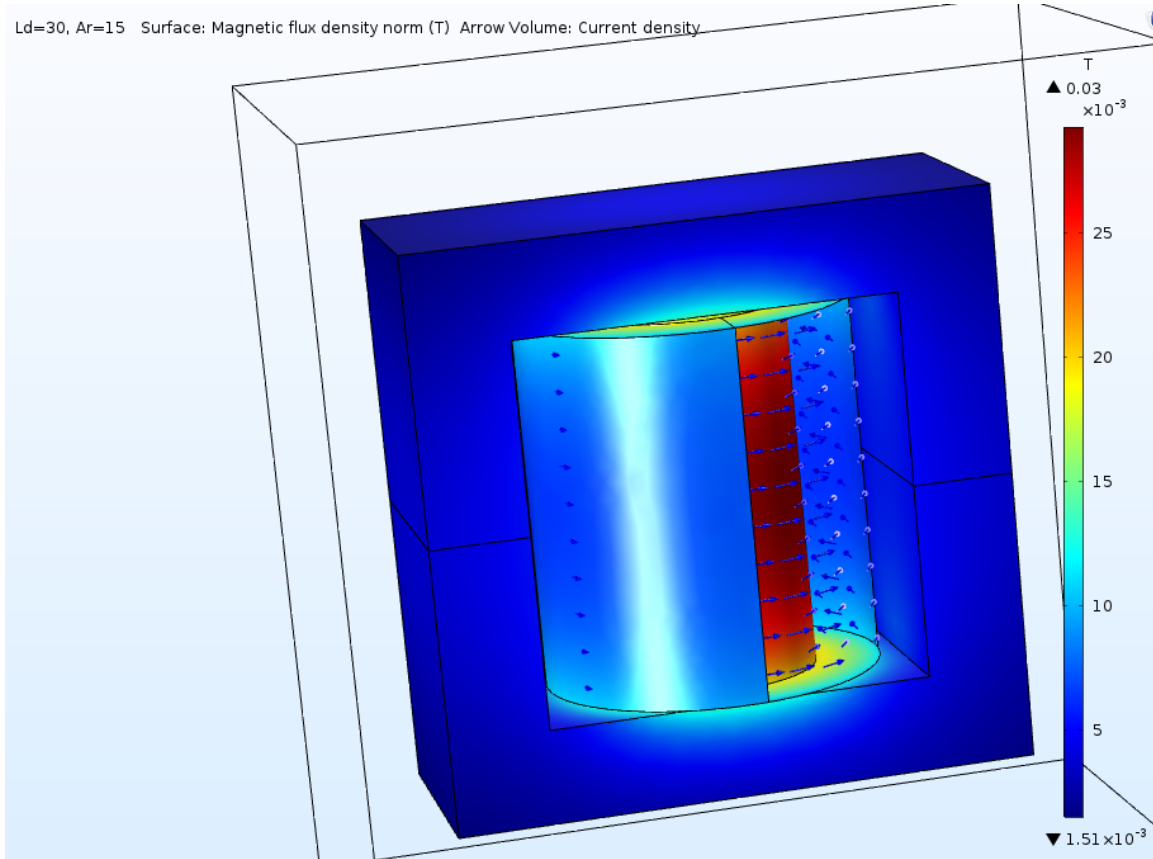
Current 75% (30 A)
15 W/(m²K) or 3
m/s air flow.



Thermal and Electromagnetics simulation – Part # ES55246-221M-40AH – Current rated 40A @ 10kHz

Ld=30, Ar=15 Multislice: Magnetic flux density norm (T)





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