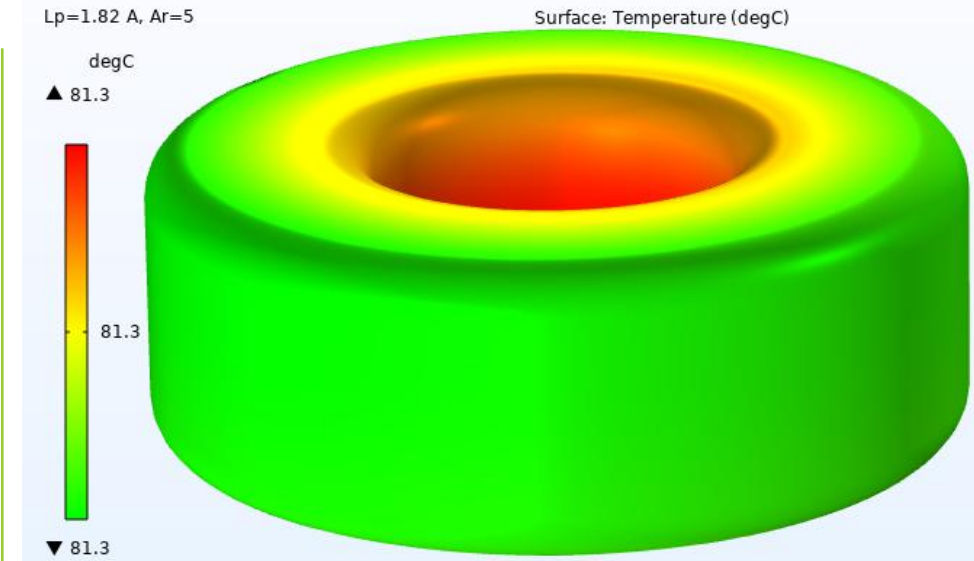
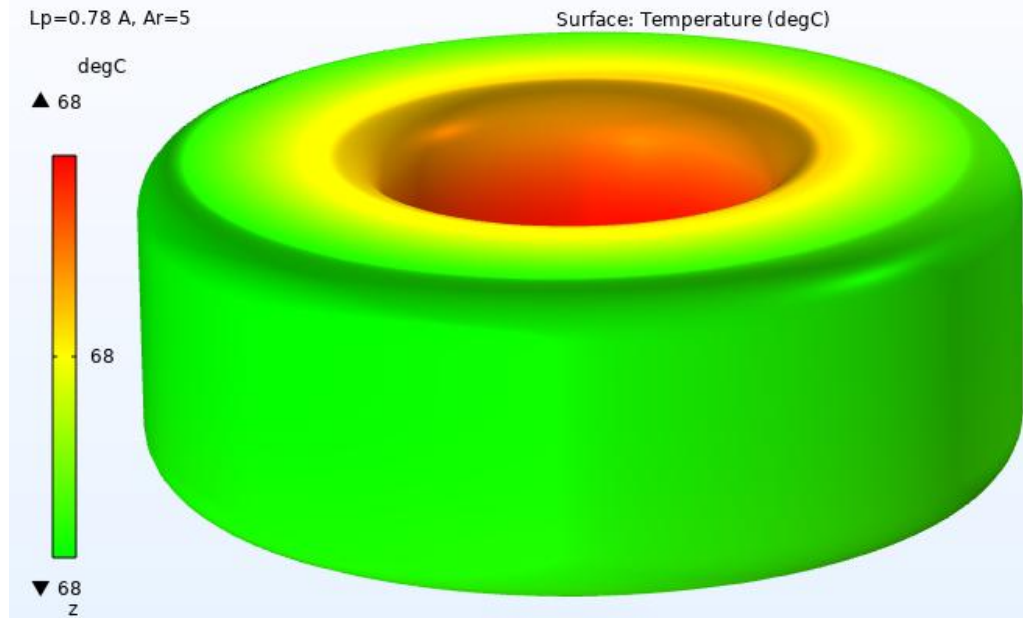
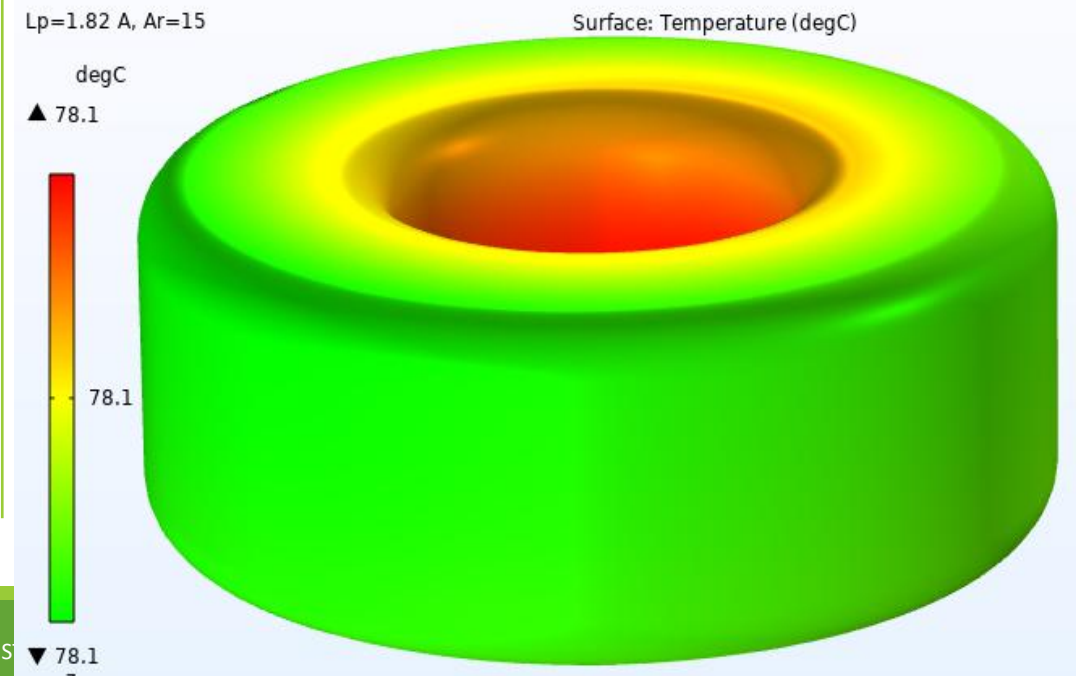
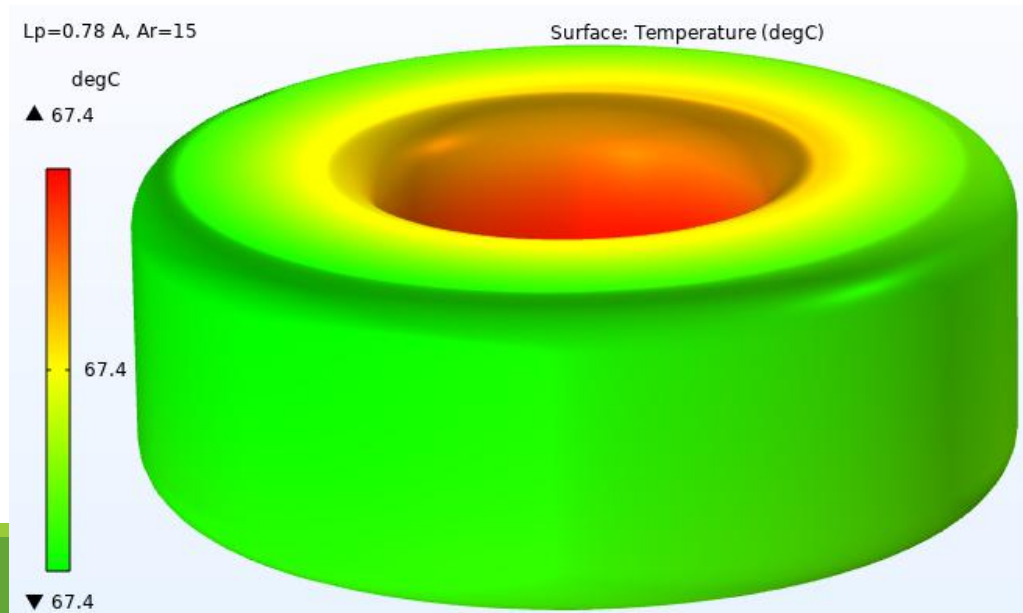


Thermal and Electromagnetics simulation – Part # HF229-501M-2.6AH – Current rated 2.6A @ 1kHz

Current 30% (0.78A)
No Airflow
Natural convection



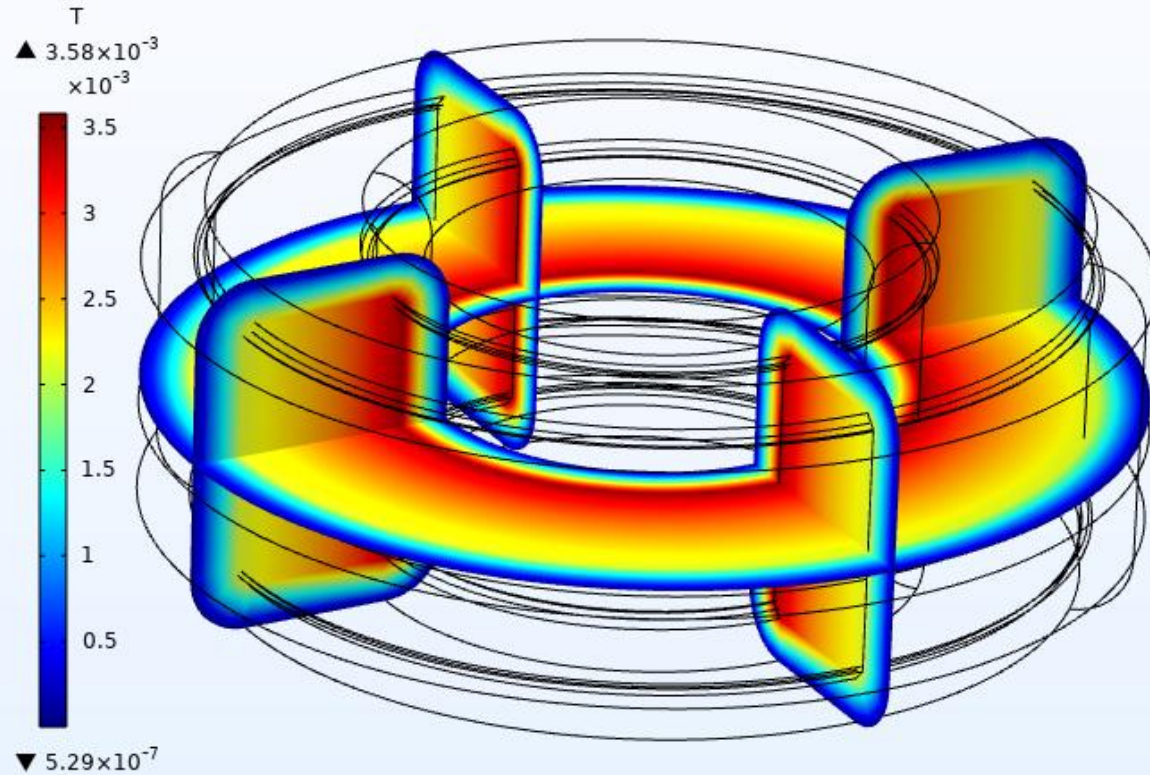
Current 70% (1.82A)
15 W/(m²K) or 3 m/s
air flow.



Thermal and Electromagnetics simulation - Part # HF229-501M-2.6AH – Current rated 2.6A @ 1kHz

Lp=1.82 A, Ar=15

Multislice: Magnetic flux density norm (T)

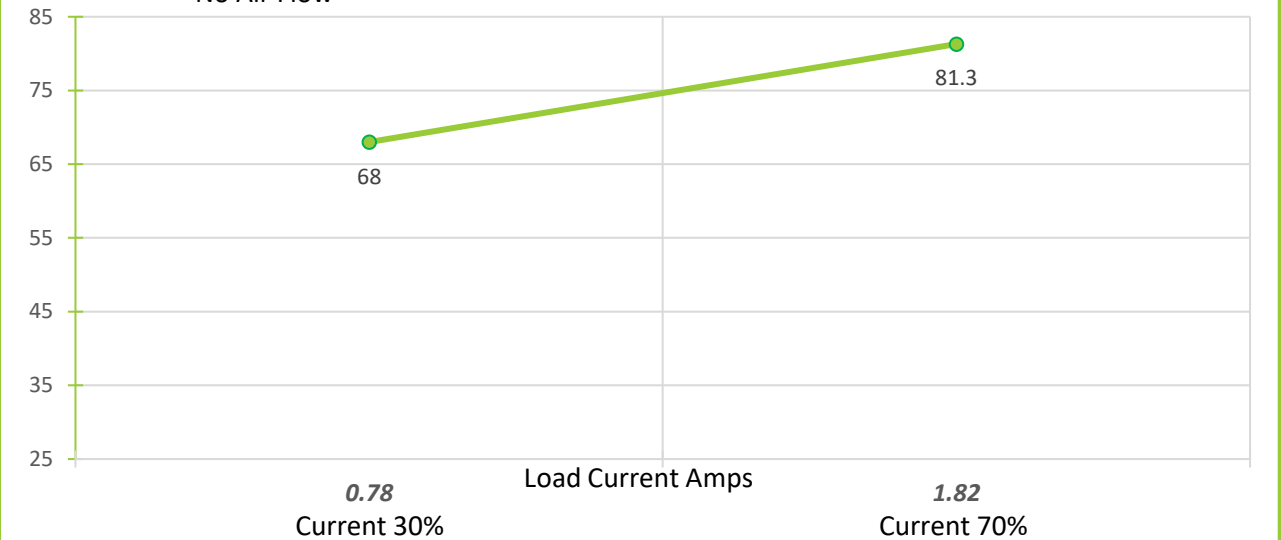


Temp° C

20° C Ambient
No Air Flow

Temp Max ° C Vs Load Amp

Temp No Air

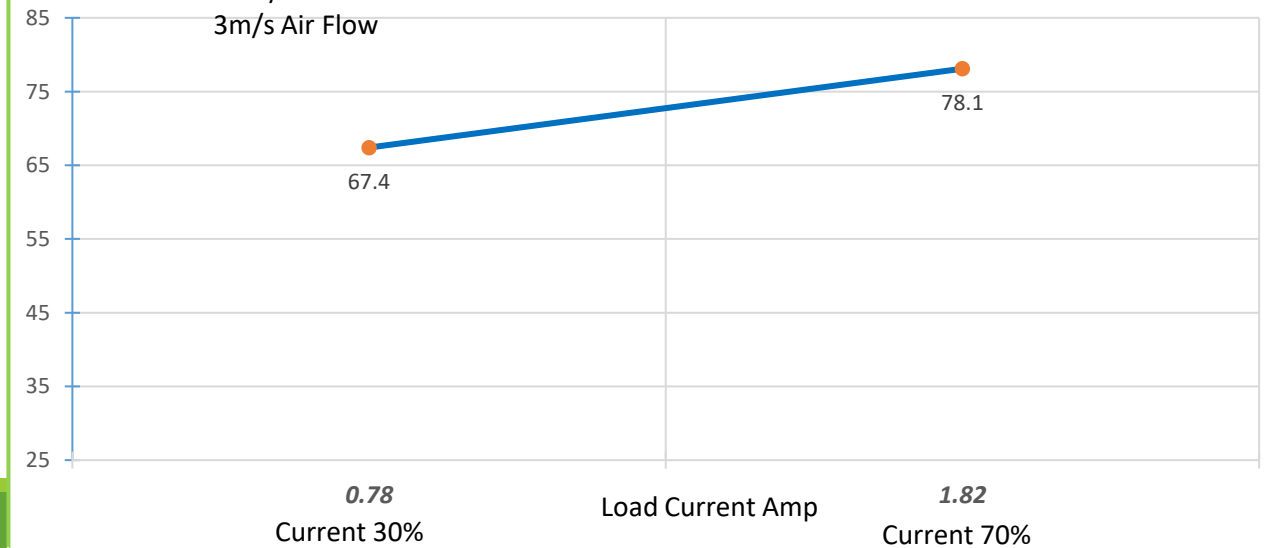


Temp° C

20° C Ambient
15W/m².K or
3m/s Air Flow

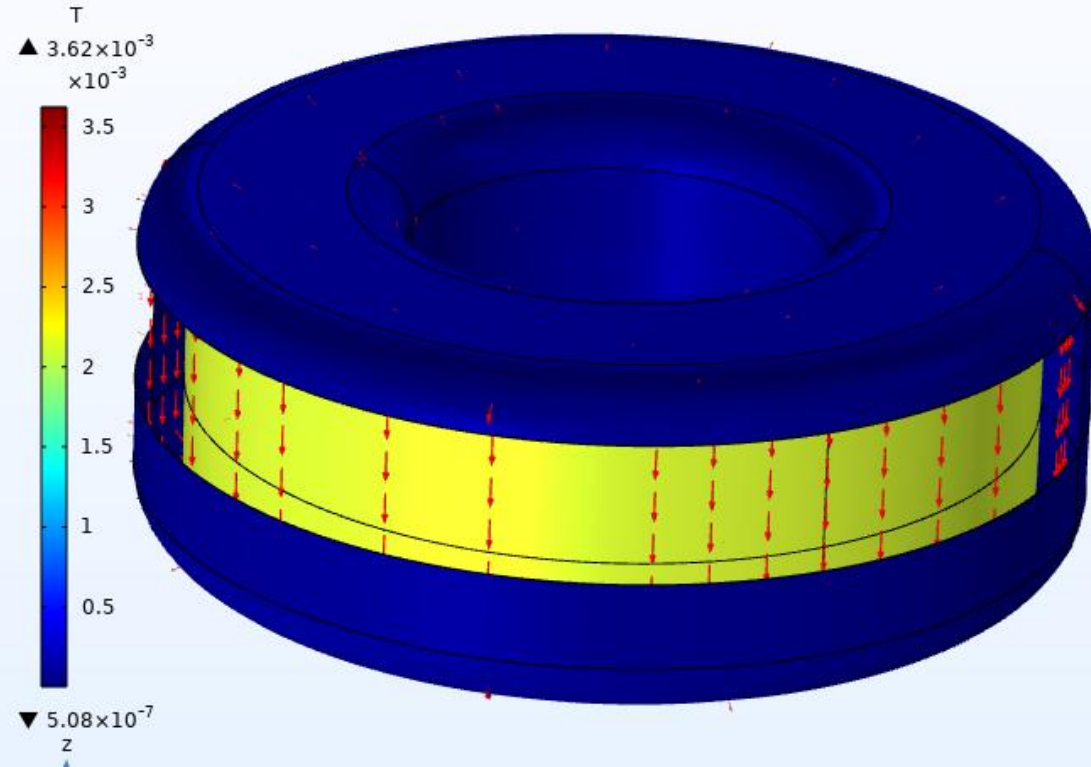
Temp Max ° C Vs Load Amp

Temp Air



Magnetics Flux in Coil

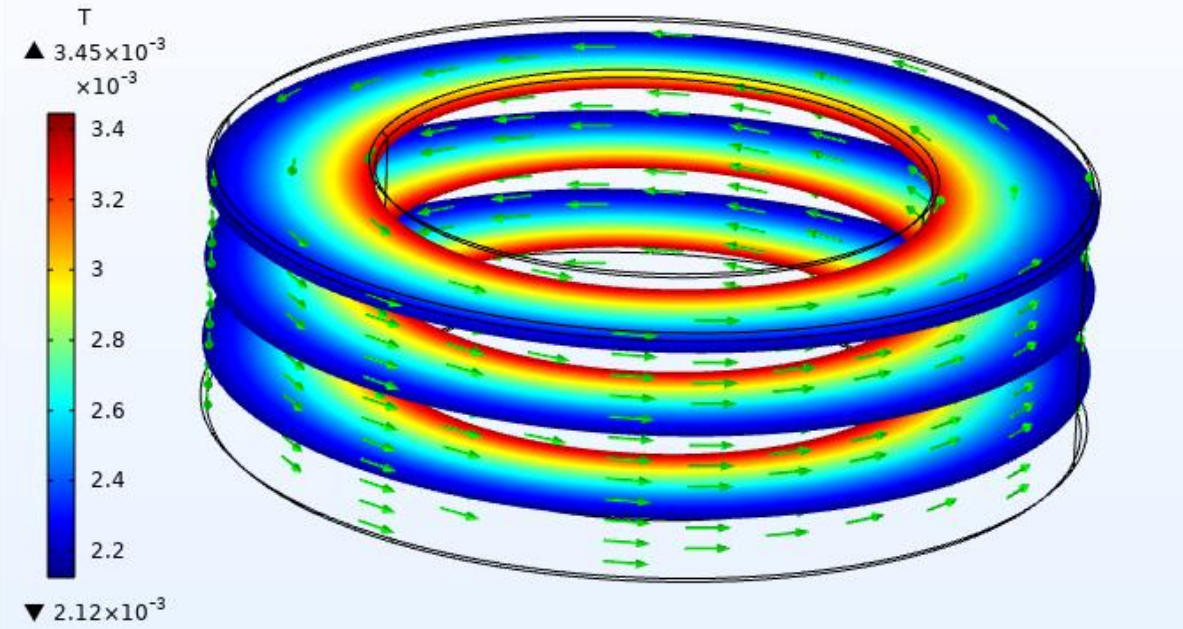
Lp=1.82 A, Ar=15 Surface: Magnetic flux density norm (T) Arrow Volume: Current density Arrow Surface: Conductivity



Magnetic Flux in Core

Lp=1.82 A, Ar=15

Slice: Magnetic flux density norm (T) Arrow Volume: Magnetic flux density



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

Note : For the modeling purpose the winding is considered as homogenous multilayer winding .

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.