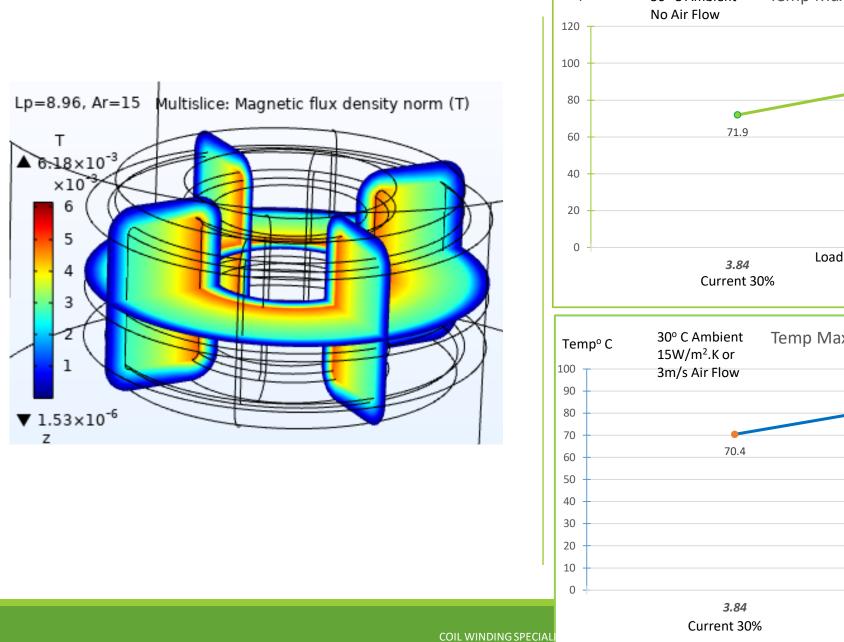
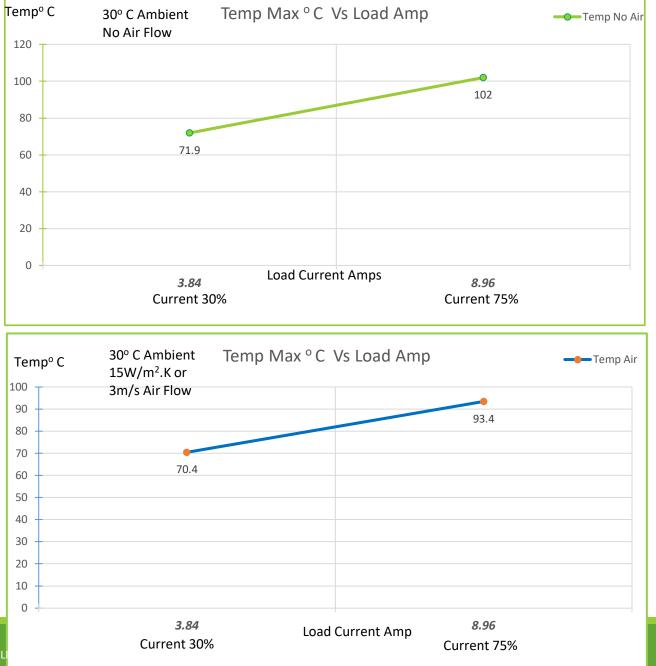


## Thermal and Electromagnetics simulation – Part # HF270-290M-12.8AH – Current rated 12.8A @ 1kHz





## Magnetics Flux in Coil Magnetic Flux in Core Lp=8.96, Ar=15 Surface: Magnetic flux density norm (T) Lp=8.96, Ar=15 Arrow Volume: Magnetic flux density Volume: log Arrow Volume: Current density Arrow Surface: Conductive heat flux **A** -18.7 6.54×10<sup>-3</sup> -19 ×10<sup>-</sup> -20 6 -21 5 4 -22 3 -23 2 -24.5 z 4.41×10<sup>-7</sup> z

## 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

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.