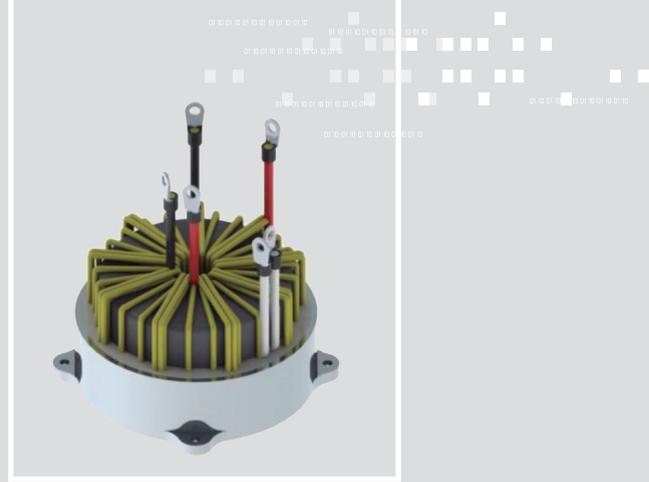


New

3DP-11kWHVHV-002

Full Bridge LLC Transformer + Resonant Choke
INDUCTIVE COMPONENTS / 3D POWER



ABSTRACT

Premo 3DPower is a revolutionary concept in power magnetics integration. Existing magnetics within conventional HEV On-Board Chargers and DCDC converters are merged into one single and compact product. Maximum power density is achieved by reducing the size and increasing the power dissipation with the latest high thermal conductive materials.

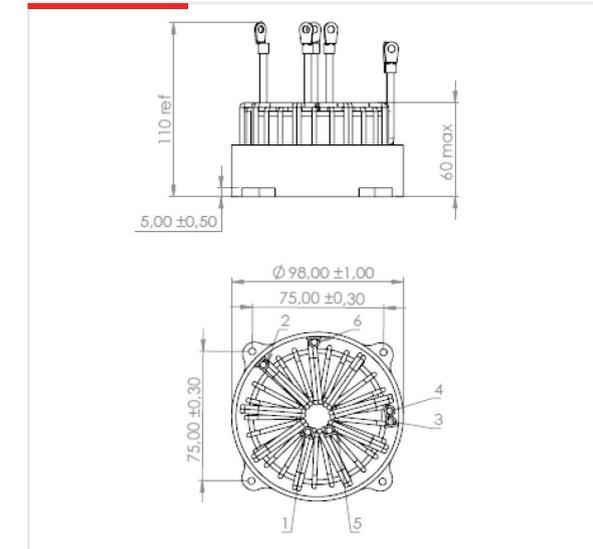
Designs can be fully customized to meet any customer requirement.

ELECTRICAL SPECIFICATIONS

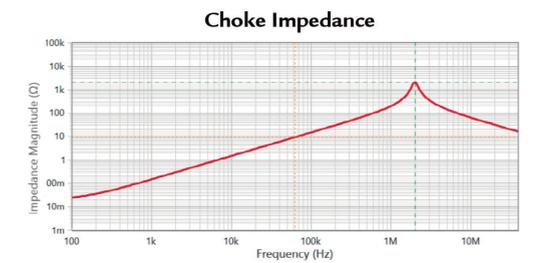
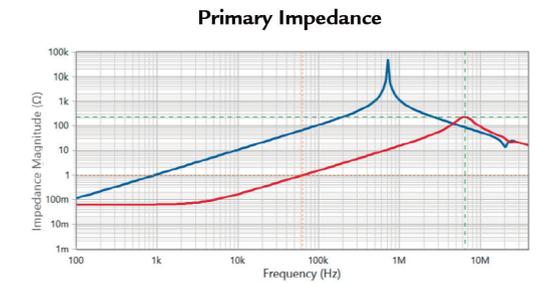
TOPOLOGY	Full Bridge LLC Resonant Converter Transformer + Resonant Choke
INPUT	
Primary Voltage	580 Vdc to 750 Vdc
OUTPUT	
Secondary	220 Vdc to 500 Vdc/ 36 Arms
CURRENT RES. INDUCTOR	30 Apk
SWITCHING FREQUENCY	70 kHz to 400 kHz
DUTY CYCLE	50%
TOTAL OUTPUT POWER	11 kW
COUPLING	
N choke/N prim	0.0015
N choke/N any sec	0.0021

02 SPECIFICATIONS

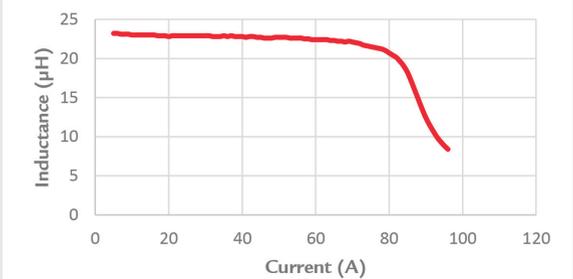
DIMENSIONS



TYPICAL PERFORMANCE



Choke Inductance vs Current (L vs I)



ELECTRICAL DIAGRAM

