GHPT SERIES

Power Planar Transformer for HV Systems

Features

- High Power & Low profile transformers
- Easy-assembly system for cold plates
- Power rating up to 16kW
- Frequency range : 70-120kHz
- H class component for operation up to 180°C
- Operating temperature from -40°C to 125°C
- Vacuum potted solution for high isolation
- Solution with heatsink available
- Threaded output terminals
- UL94V-0 material
- RoHS compliant



Application

- Industrial high power SMPS
- Rapid Chargers for EV

Electrical specifications

Part Number	Input Voltage Vdc (V)	Output Voltage (V)	Output Current (A)	Power (W)	Frequency (kHz)	Duty cycle	Topology (*)	Inductance (mH)	Leakage Inductance (µH)	Turns Ratio (Pri:Sec)	Max Total losses (W)
GHPT-001	360-440	34	200	6.8	100	0.47	ZVS Full Bridge	0.8	1	8:2	18
GHPT-002	800-900	520	23	12	120	0.42	ZVS Full Bridge	0.6	1	15:10	22
GHPT-003	230-340	500	32	16	70	0.4	Full Bridge	0.4	1	4:11	35

(*) ZVS Full Bridge topology with 4-diodes rectification

Notes

(1) All test data are referenced to 25°C ambient temperature

(2) Continuous operating temperature range must be within -40°C/+125°C (ambient + self heating) under worst case conditions; exposure to 180°C peak is allowed. Thermal index H for all raw materials used

(3) Performances are subjected to change according to cooling capability of the cold plate where the component is fixed. It is suggested to test the component at system level to verify its temperature rise after 30 minutes in the end application.

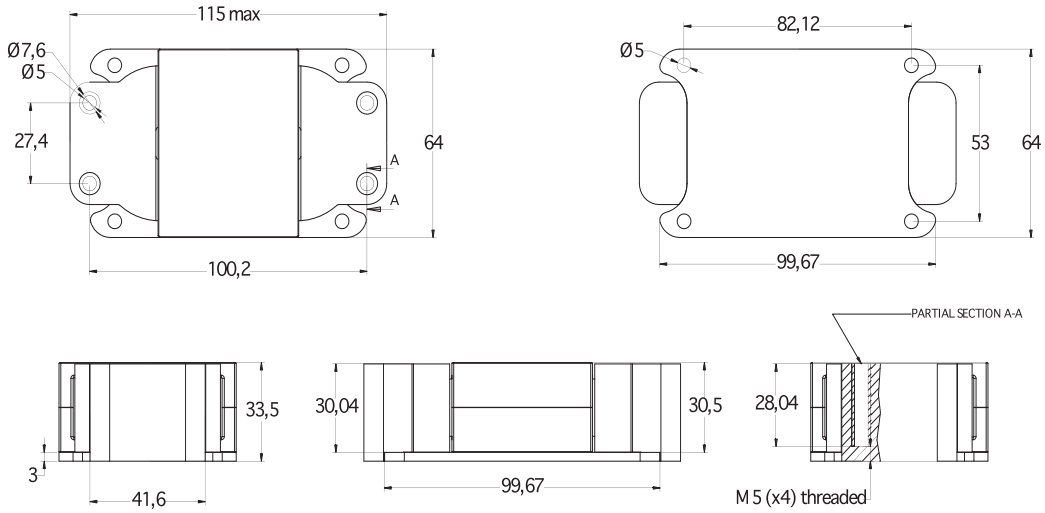
(4) Inductance values are measured at 10kHz/1V

(5) Hi-pot test between winding and between primary winding to core is above 5kV/50Hz/2sec

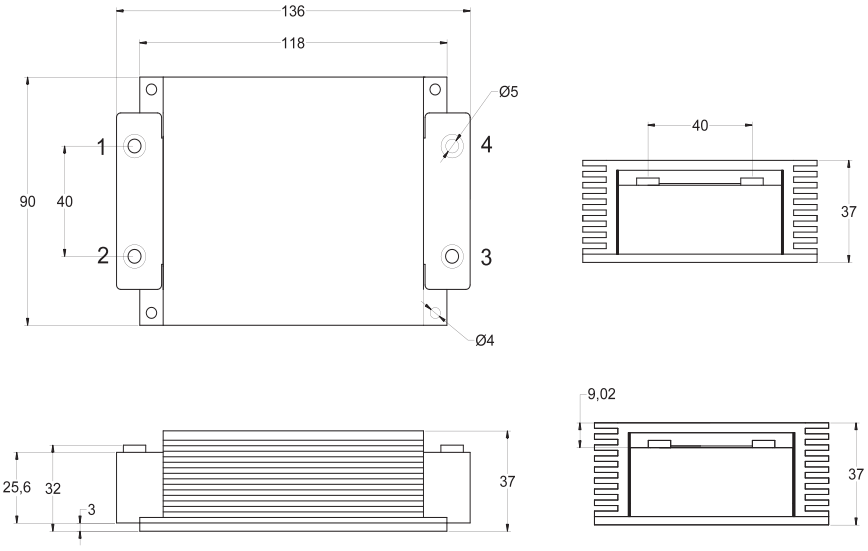
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Dimensions



GHPT-001/002



GHPT-003

Electrical Diagram

