

## CCM PFC Inductor Specification

09/08/15

Program: PMP10215 REV\_A

### Electrical:

Circuit Topology: Continuous Conduction Mode PFC, controller UCC28180

Input DC Voltage: 85Vdc to 264Vdc

Output Power: 210W continuous, 420W for 5 minutes

Frequency: 120 KHz

Inductance: 400 uH  $\pm$  20% @ 8A<sub>PEAK</sub>

Ripple Current (200Vdc\_in, duty cycle 50%): 2.12A<sub>PK-PK</sub>

RMS current (sinusoidal, @ 85V<sub>AC</sub>):  
5A<sub>RMS</sub> (5min.)  
2.5A<sub>RMS</sub> (continuous)

Peak current (sinusoidal + ripple @85V<sub>AC</sub>): 8.14A<sub>PEAK</sub>

Mechanical: no specific request

Dimensions: maximum height 35mm, minimum footprint

### Environment:

Operating Temperature Range: -20C to +70C ambient

Temperature Rise: 40C max during 400W load for 5 minutes

Cooling: Natural Convection