

## FILTER INDUCTOR

Inverter Duty, DC Link Filter Liquid Cooled, Encapsulated

this application:



This inductor design was developed as a DC link filter inductor for an advanced power system, high power, PWM inverter. The unit operates with a continuous coolant temperature of 90°C for hybrid vehicle applications. The embedded cold plate is electrical isolated from the inductor winding, and vacuum encapsulated in a thermally filled epoxy.

### Features:

- Inverter duty designed
- 170uH at 150ADC, 10% ripple at 15kHz
- Dual inductor
- Liquid cooled, indirect
- Vacuum encapsulated
- MIL-PRF-27, Grade 5, Class U (180°C)

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## Specifications:

### *ELECTRICAL SPECIFICATIONS*

- 170uH at 150ADC, 10% ripple at 15kHz per
- inductor
- Dual Inductor assembly

Total Loss per Inductor 140W

### *MECHANICAL SPECIFICATIONS*

- Liquid Cooled: EGW 50/50 at 90°C,2GPM
- Pressure Drop:14psi
- Weight: 50lbs

