

## Fast Facts

### HM72E-06 SERIES – MOLDED INDUCTOR

The HM72E-06 series has been designed as a 155 C high temperature rated molded inductor for high stress environments that require high current saturation levels. It is ideal for high power density applications where size is critical.

It is targeted at designers of dc-dc converters who require a buck, boost, or buck-boost inductor for voltage regulation at fast switching frequencies up to 3MHz.. It can also be used as a filter inductor for EMI noise reduction.



#### Market Segments

- High-end Industrial
- Medical

#### Applications

- DC-DC Converters
- Point-of-Load Modules
- Low pass Ripple Current Filters
- EMI Filters

#### Features

- High Saturation Current per Unit Volume
- Operating Temperature: -40°C to +155°C
- No Thermal Aging Issues
- Rust Resistant
- Low DCR
- Low Core Loss
- Magnetically Shielded
- Robust Construction

#### Benefits

- High operating temperature allows for higher ambient or higher temperature rise in circuit design
- Moisture resistant - molded body will not rust
- High power density can save board space and reduce weight for fuel cost savings