

Re: What happens when you over current an inductor?

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- *From:* Tim Wescott <[tim@xxxxxxxxxxxxxxxxxxxx](mailto:tim@xxxxxxxxxxxxxxxxxxxx)>
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John\_H wrote:

Rene Tschaggelar wrote:

First at reaching the current specification its inductivity decreases as it becomes saturated. At further increase of the current over the specification, it becomes warm, then hot until a solder joint melts. The inductivity is lower than expected at overcurrent. You cannot permanently damage an inductor, except by damaging the insulation and the solder joints. Meaning the media, usually ferrite doesn't care.

Rene

But won't there be troubles when the temperature exceeds the curie temp? I may be getting my cores mixed up with the rare earth magnets I work with.

The permeability will still be there because of the raw material; what happens to the properties of the core if it becomes magnetized?

Inductor cores are magnetically soft, so they shouldn't retain any magnetism.

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