

comp.arch.embedded: Re: PCB trace temperature?

## Re: PCB trace temperature?

**Source:** <http://coding.derkeiler.com/Archive/General/comp.arch.embedded/2004-12/0892.html>

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**From:** Gary Pace (*xxx\_at\_yyy.com*)

**Date:** 12/17/04

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100C on FR4 with good bonding between the copper and substrate. This will probably discolour the board over a couple of years. 80C if you're being conservative.

Much hotter on expensive substrates etc.

"Dennis Clark" <dlc@io.frii.com> wrote in message  
news:41c205d3\$0\$207\$75868355@news.frii.net...

> *Hi all,*

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> *I've seen and used the trace temperature vs. current calculators and*

> *seen lots of information on calculating trace temps. However, I can't*

> *find any information about just how hot you can let a trace get. I*

> *know that copper melts at about 1100 deg. C, I'm pretty sure that the*

> *board will be damaged before that,... So, how hot can a trace get and*

> *still be OK on a board? Where does board damage occur and how hot are*

> *we "allowed" to get a trace?*

>

> *regards,*

> *DLC*

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> *\* Dennis Clark dlc@frii.com www.techtoystoday.com*

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> *"Programming and Customizing the OOPic Microcontroller" McGraw-Hill 2003*

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