

Re: Why so many caps?

Source: <http://sci.tech-archive.net/Archive/sci.electronics.components/2004-07/0405.html>

From: Spehro Pefhany (*speffSNIP_at_interlogDOTyou.knowwhat*)

Date: 07/14/04

Date: Wed, 14 Jul 2004 12:07:36 GMT

On Wed, 14 Jul 2004 09:14:54 GMT, the renowned "alpha_uma"
<none_such@home.com> wrote:

> "Spehro Pefhany" <speffSNIP@interlogDOTyou.knowwhat> wrote in message
> news:gh05f0hh0pnj10mcbi3h2qibkacfkjrj@4ax.com...

>>

>> They want to use 0.50 worth of e-caps instead of \$20 worth of ceramic
>> caps.

>>

>

> If money is of no concern (big IF, I know, but it's just hypothetical), and
> if there are ceramic caps that would meet the specs, would you use ceramics
> instead of electrolytics on a motherboard? In the current state of
> consumer-oriented motherboard designs, are there (non-financially related)
> reasons where electrolytics must be used in circuits?
> Al-U

I really can't think of any, particularly in a motherboard that
doesn't have to operate below 0°C. Parts in the 100uF-330uF 6.3V range
are available. They are the weakest link in motherboard life (not
counting obsolescence and processor fans).

Best regards,
Spehro Pefhany

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"it's the network..."

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Embedded software/hardware/analog

"The Journey is the reward"

Info for manufacturers: <http://www.trexon.com>

Info for designers: <http://www.speff.com>