

From: "Bolla Gino" <bolla@physics.purdue.edu>
To: <bolla@physics.purdue.edu>
Date: Tue, October 15, 2002 12:59 pm
Subject: [Fwd: Aging test on Jumpers]

Hi,

I found few jumpers here as well. I will put together an example board with 1 or 2 jumpers wired up and play with it a little bit. Then I will send the whole thing to Azizur to reproduce and test. I don't think you need an environmental chamber. A simple oven will do. My idea is to run DC current through for a few days at ~100C. This should simulate the effect of current for a much longer time. Other test ideas may come up in the mean time.

-Maurice

----- Original Message -----

Subject: Aging test on Jumpers
From: "Bolla Gino" <bolla@physics.purdue.edu>
Date: Sat, October 12, 2002 12:03 pm
To: <Azizur.Mohammad.Rahaman@cern.ch>, <mgs@fnal.gov>, <joelg@fnal.gov>

Hi all,

Azizur went to SiDet and He found 15 "unused" jumpers in our hands.

I went to "my old drawer" and I found 4 more called "mechanical jumpers"

So in total here at SiDet we have 19 jumpers for the aging test. On each jumper there are at least 6 connections that are mechanically the same as the DVDD one. So we can test 114 of these connections.

Considering we have 360 installed we can set up a kind of 30 % aging test that sounds to me like more than enough.

Now is a matter of deciding what to do with them.

Maurice should have a leading role on deciding a strategy and the goals.

Joel is helping out with other things and can surely help out by making wirebonds at SiDet

Azizur is willing to do the dirty part of the work. He will take the opportunity as a way to learn something.

Let's try to get this test done in a time scale of 1-2 weeks.

Gino

For Azizur
General information about wirebonding

<http://www.eccb.org/pbps/tg/wirebond.htm>
<http://extra.ivf.se/nql/A-WireBonding/ChapterA2.htm>

Place where to find many (maybe too many) references:

<http://extra.ivf.se/nql/A-WireBonding/ChapterA4.htm>

Gino

> Azizur Rahaman wrote:
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>> Hi Maurice,
>>
>> I would be happy to work with you and study the aging effects.
>>
>> Please let me know how we proceed to do so.
>>
>> thanks and best regards,
>> azizur
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>> >2. Azizur should try to work out with Maurice a strategy about
>> >enhancing
>> > potential aging processes.
>> > HIGH TEMPERATURE
>> > HIGH UMIDITY
>> > More .....
>>
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