

Re: pick 'n' place machines (was: OT 0805 resistor noise)

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-09/msg01914.html>

- *From:* John Larkin <jlarkin@xx>
 - *Date:* Thu, 08 Sep 2005 13:26:47 -0700
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On 8 Sep 2005 12:52:26 -0700, Winfield Hill
<Winfield_member@xxxxxxxxxxxx> wrote:

>John Larkin wrote...
>>
>> We recently did our first 456-pin BGAs... and it worked!
>
> Preheat with hot air from below, heat it with hot air from
> above, and after a while it just "sits down" all of a sudden?

It went through the conveyer on the reflow oven, deep dark tunnel, so we couldn't see what happened! They do ride a thermocouple through the oven, attached to a data-logging Fluke, to get the time-temp profile right. That's apparently the most important thing. They've done maybe 20 boards so far, with 100% success. They prefer BGAs to TSOPs now, although they may change their mind after they have to rework one.

It's sure nice to toss all your logic into one huge chip. No interconnect problems, and massively inefficient logic works just fine. Multipliers, adders, fifos, PID controllers, serial bangers, phase detectors, DPMS, whatever, just heap them on. It's almost obscene.

John

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- *Follow-Ups:*
 - ◆ *Re: pick 'n' place machines (was: OT 0805 resistor noise)*
◇ *From:* Walter Harley
 - *References:*

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- ◆ **Re: OT 0805 resistor noise**
 - ◇ From: Winfield Hill
- ◆ **Re: OT 0805 resistor noise**
 - ◇ From: Robert Baer
- ◆ **Re: OT 0805 resistor noise**
 - ◇ From: SioL
- ◆ **Re: OT 0805 resistor noise**
 - ◇ From: John Larkin
- ◆ **Re: pick 'n' place machines (was: OT 0805 resistor noise)**
 - ◇ From: Walter Harley
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 - ◇ From: Winfield Hill

- Prev by Date: **Re: OT: followup on New Orleans – disgraceful**
- Next by Date: **Re: OT: School Bus Detector**
- Previous by thread: **Re: pick 'n' place machines (was: OT 0805 resistor noise)**
- Next by thread: **Re: pick 'n' place machines (was: OT 0805 resistor noise)**
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