

## Re: small soldering job

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- *From:* "Fred Bartoli" <[fred.canxxxel\\_this\\_bartoli@xx](mailto:fred.canxxxel_this_bartoli@xx)>
  - *Date:* Mon, 30 May 2005 18:36:51 +0200
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"Walter Harley" <[walterh@xxxxxxxxxxxxxxxxxxxxxx](mailto:walterh@xxxxxxxxxxxxxxxxxxxxxx)> a écrit dans le message de [news:c9CdnY5u1L--3QrfRVn-2w@xxxxxxxxxxxxxxxxxxxxxx](mailto:news:c9CdnY5u1L--3QrfRVn-2w@xxxxxxxxxxxxxxxxxxxxxx)  
> "Spehro Pefhany" <[speffSNIP@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:speffSNIP@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message  
> [news:g1kd915iplq6cdsd03uq2upeig2kqkmc5@xxxxxxxxxxxxx](mailto:news:g1kd915iplq6cdsd03uq2upeig2kqkmc5@xxxxxxxxxxxxx)  
>> Hot air works okay for them too, at least for a few prototypes. I have  
>> not tried a QFN44 or 28 yet, but they don't look too scary.  
>  
> I'm assuming we're all talking about the same thing, chips with a  
heat-sink  
> pad in the center that is intended to be soldered directly to a pad on the  
> component side of the PCB, that in turn is connected with thermal vias to  
> more copper on the other side of the PCB. The problem being that the pad  
is  
> between PCB and chip, and therefore not accessible.  
>  
> How do you get solder to the hidden pad? And, are you applying the hot  
air  
> from the component side or the other side?  
>  
> I like Paul's idea of leaving a hole big enough to get the solder in from  
> the bottom.  
>

The pad in itself won't do much for power dissipation. You have to connect it through a bunch of vias to some plane that'll spread heat across the PCB more efficiently.

As Paul said, make one or more vias bigger so that you can solder the package through them.

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Thanks,  
Fred.

- **References:**

- ◆ **[small soldering job](#)**
  - ◇ From: wv9557
- ◆ **[Re: small soldering job](#)**
  - ◇ From: Leon Heller
- ◆ **[Re: small soldering job](#)**
  - ◇ From: Paul Olley
- ◆ **[Re: small soldering job](#)**
  - ◇ From: Walter Harley
- ◆ **[Re: small soldering job](#)**
  - ◇ From: Paul Burke
- ◆ **[Re: small soldering job](#)**
  - ◇ From: Walter Harley
- ◆ **[Re: small soldering job](#)**
  - ◇ From: Paul Burke
- ◆ **[Re: small soldering job](#)**
  - ◇ From: Spehro Pefhany
- ◆ **[Re: small soldering job](#)**
  - ◇ From: Walter Harley

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