

[AT_Sprint] Re: Cash Olsens Solder Paste Syringe

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From: casholsen
Date: Thursday, March 05, 2009 1:43 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Cash Olsens Solder Paste Syringe

Dale,

I can assure you that all of the resistors, capacitors, diodes and chips (exclude through hole devices) were designed to be soldered by the hot air method that I suggested over 3 years ago. They were designed to withstand 230 degrees C for about 2 minutes without damage. In my method I suggest that you pre-warm the board to about 100 degrees C before starting the ramp to the solder melting temperature. The board can be maintained at this temperature (100C) for an indefinite period of time, hours, days, weeks. The paste will dry out but the components and the PCB will be ok.

I have only just today joined the group, so forgive me if I mention things that have already been discussed.

One thing I would like to caution about. Do not apply paste and then attempt to solder with a conventional soldering iron, it's tempting but I've tried it and it will leave you disappointed. The problem is that the paste can squeeze under the component (it remains conductive and will cause high resistance shorts) and will not be converted to molten solder unless you reflow the solder. The hot air method or toaster oven are among the best methods.

Another tip, use the paste sparingly and as much as possible apply the same amount of paste to all leads of a component, this will minimize the tombstone phenomena. The embossing tool just about can't produce enough air flow to move a part if the paste is properly applied.

I am trying to get my entire tutorial up on the new website, perhaps I can complete it this week.

And, last thing, the syringe contains about 0.5cc of solder paste. It doesn't look like very much, but it is sufficient to complete many ATS kits. One syringe should be enough for most hobbist and will last approximately 1 year, if stored in the refridgerator (but don't let it come in contact with food). Wash hands after handling.

Cash Olsen KD5SSJ

--- In AT_Sprint@yahoogroups.com, Stephen Wandling <swandling@...> wrote:

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