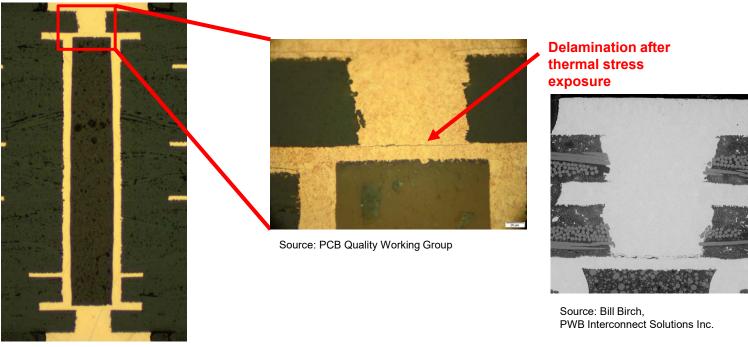
Recommendations/comments on "IPC-2226"

(Implementation subject to customer/supplier agreement)



Objective:

- Increase the reliability of electronic components
- **Reduce the risk of copper disconnection due to thermal stress during the soldering process**



Source: PCB Quality Working Group

Recommendations/comments on "IPC-2226"

(Implementation subject to customer/supplier agreement)



Excerpt from IPC-2226:

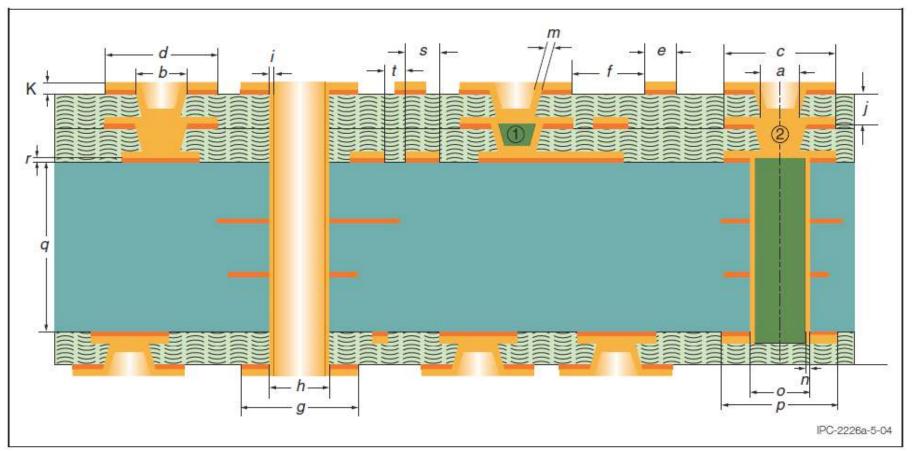


Figure 5-4 Type III HDI Construction with Stacked Microvias

(Caution: Unbalanced constructions as shown above may result in excessive bow and twist.)

Note 1: Stacking not recommended for resin or conductive/non-conductive filled microvias.

Note 2: Stacking not recommended over resin or conductive/non-conductive filled vias due to potential for reduced reliability. Instead, the use of staggered structures is recommended.

Caution: HDI design with microvias stacked on buried resin filled vias is not recommended.

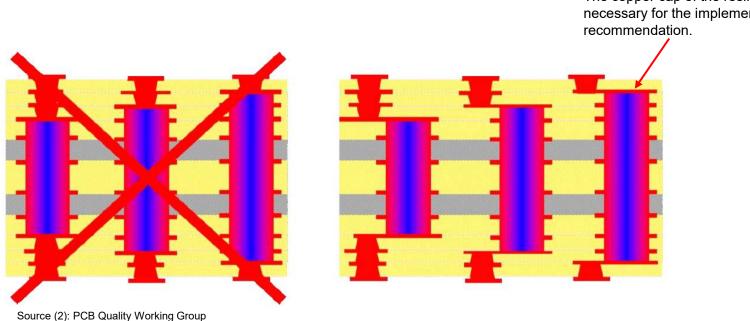
PCB and Electronic Systems Division within the German Electrical and Electronic Manufacturers' Association, PCB Quality Working Group, 2021_06

Recommendations/comments on "IPC-2226"

(Implementation subject to customer/supplier agreement)



Recommendation for implementing IPC-2226: Arranging stacked microvias and resin-filled buried vias in a staggered layout.



Note:

The copper cap of the resin filled vias is not necessary for the implemention of this recommendation.