

Schoenholz, Roland

Betreff: HDI / Microvia Technology - INFO MAIL No. 3



HDI / Microvia Technology

INFO MAIL No. 3

December 2005

Mircovia - boards and their nomenclature

In the past months confusion was caused from time to time by the different microvia PCB naming. Regrettably, a uniform official nomenclature for microvia PCB 's doesn't exist. The terms used are often specially used or preferred terms of one fabricator without any real correlation between designation and build-up.

Our intention is to provide some more clarity by presenting a nomenclature, where the terms and related build-ups show a clearer coherence.

best regards

Roland Schönholz
product manager HDI microvia technology
Würth Elektronik GmbH + Co. KG
Tel. +49 7622 / 397-501
E-Mail: roland.schoenholz@we-online.de

21.12.2005

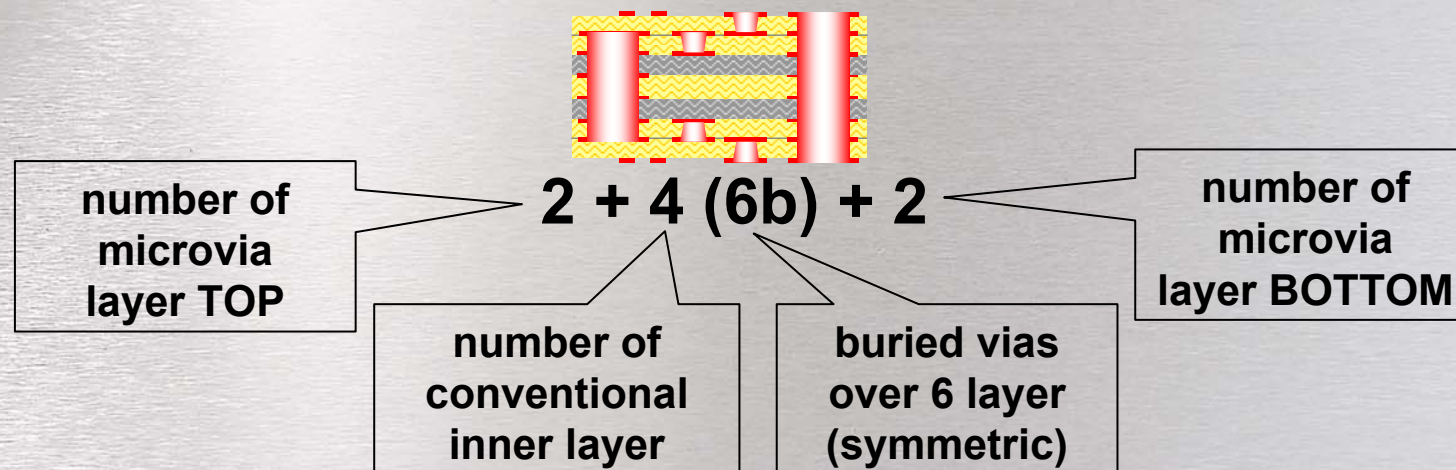
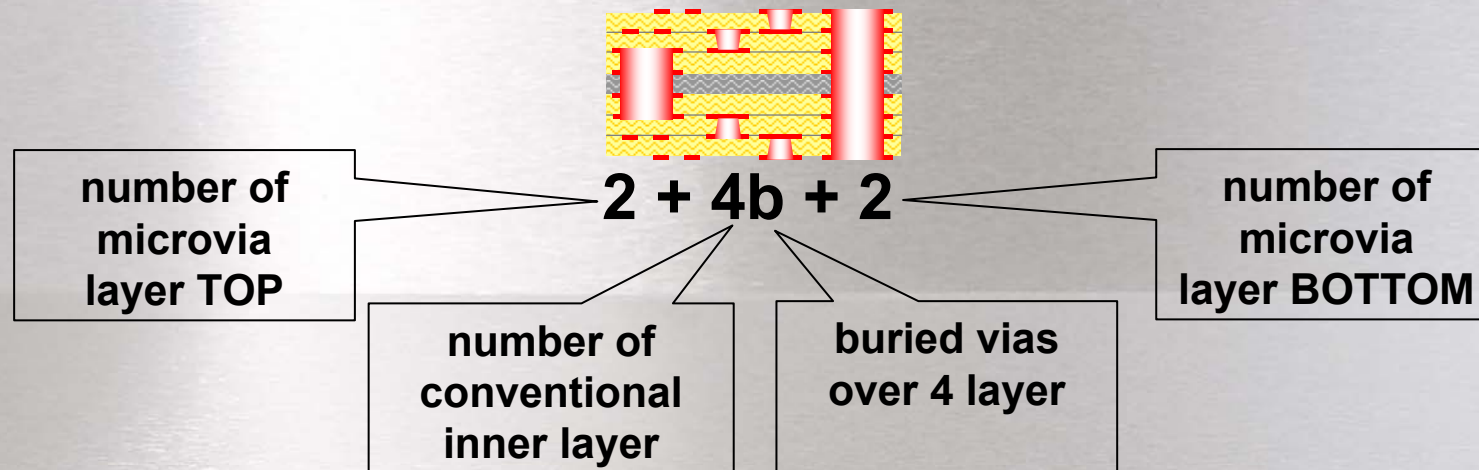


Nomenclature of microvias

more than you expect



number of layers = summe of numbers (without brackets)

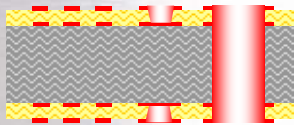




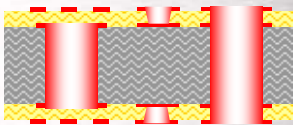
Microvia multilayer board variants



4 layer

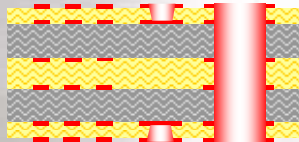


$$1 + 2 + 1$$

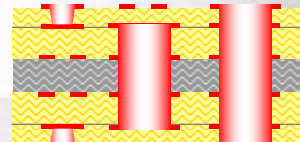


$$1 + 2b + 1$$

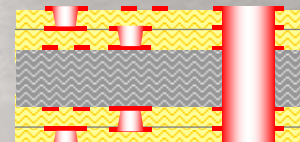
6 layer



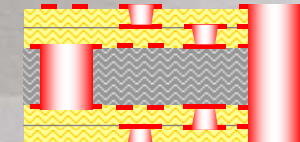
$$1 + 4 + 1$$



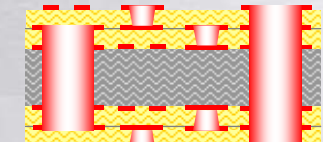
$$1 + 4b + 1$$



$$2 + 2 + 2$$

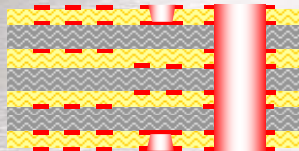


$$2 + 2b + 2$$

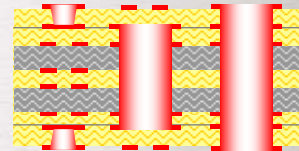


$$2 + 2(4b) + 2$$

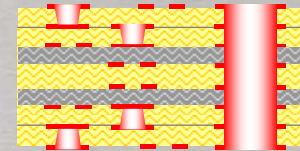
8 layer



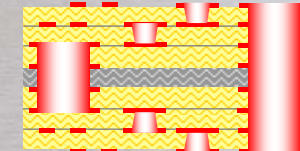
$$1 + 6 + 1$$



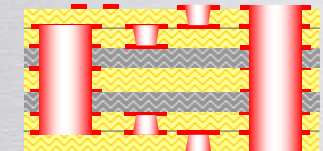
$$1 + 6b + 1$$



$$2 + 4 + 2$$

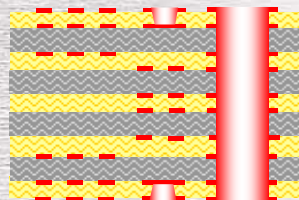


$$2 + 4b + 2$$

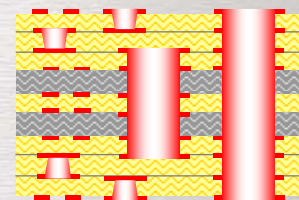


$$2 + 4(6b) + 2$$

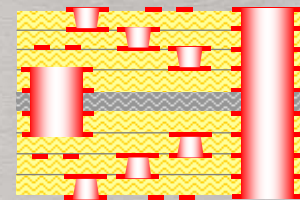
10 layer



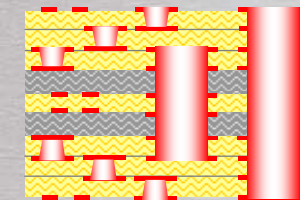
$$1 + 8 + 1$$



$$2 + 6b + 2$$



$$3 + 4b + 3$$



$$3 + 4(6b) + 3$$