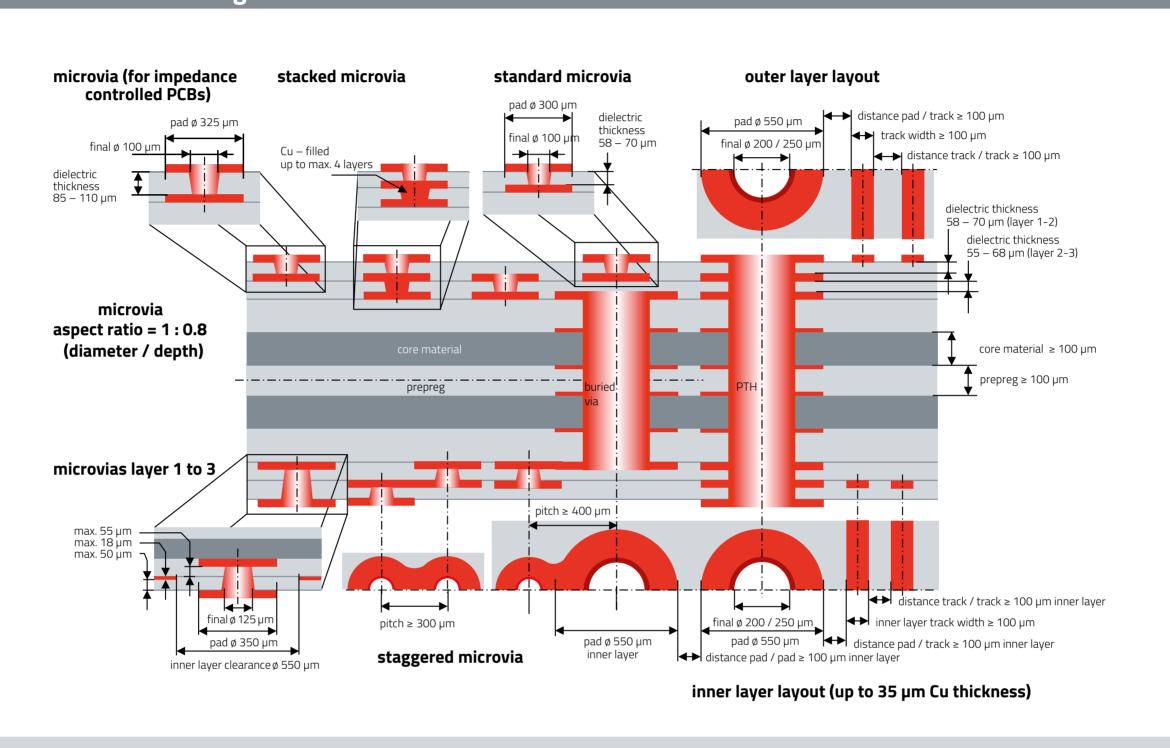
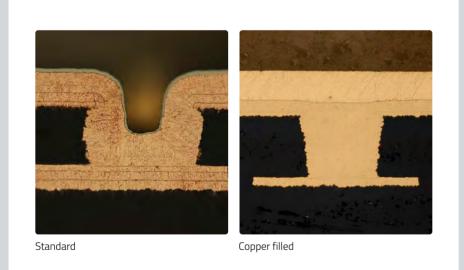


# HDI MICROVIA

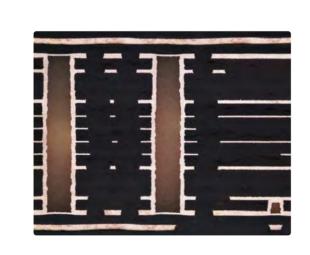
## **HDI Microvia Standard Design Rules**



#### Microvia Standard and copper filled



#### Filled & Capped Via and Microvia



# PTH and Via filled & capped (IPC-4761, Type VII)



### BGA 0.80 mm pitch



through-hole vias



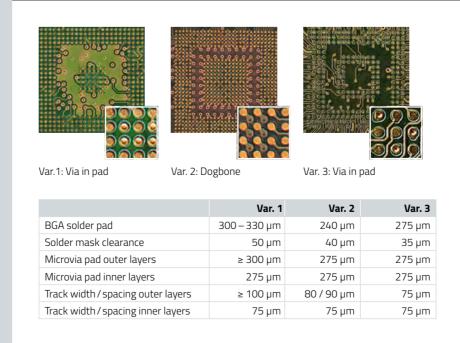
microvias



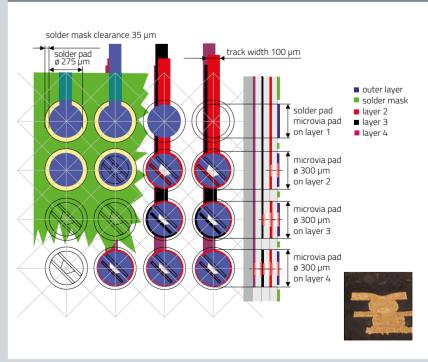
Var. 3: Microvia in pag

	Var. 1	Var. 2	Var. 3
BGA solder pad	max. 400 μm	_	max. 500 μm
Solder mask clearance	50 µm	≥ 50 µm	50 µm
Via pad size BGA area	500 µm	_	_
Microvia pad outer layers	_	300 / 350 µm	300 / 350 µm
Microvia pad inner layers	_	300 / 350 μm	300 / 350 μm
Track width/spacing outer layers	≥ 100 µm	≥ 100 µm	≥ 100 µm
Track width / spacing inner layers	≥ 100 µm	≥ 100 µm	≥ 100 µm

## BGA 0.50 mm pitch



# BGA 0.40 mm pitch



MORE SUPPORT
THAN YOU EXPECT

Which base material qualities are used in a PCB can be seen from the stackup. Würth Elektronik offers cost- and production-optimised standard stackups on its website. Here you can also find all standards as digital stackup files for import into your EDA software.

Do you have questions about fabrication data, tolerances, test documentation or packaging? In our Technical Delivery Specification for printed circuit boards (TDS) you will find our standards and recommendations for smooth and effective cooperation.