



"focus on cost drives out quality...
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tbp electronics bv
 Vlakbodem 10 • 3247 CP Dirksland t +31 187 602744
 po box 8 • 3247 ZG Dirksland e info@tbp.nl
 the Netherlands i www.tbp.eu

Design for Manufacturing (DfM)

design

block diagram

schematics

placement

routing

validation

phase 0
(face to face)

phase 1

phase 2

customer delivers tbp

- designidea (in block diagram)
- batchsize and year volume of product
- traceability
- PCB requirements
- design requirements
- special requirements

tbp delivers customer

- DfM guidelines
- data exchange guidelines
- ABC component list
- product manufacturability advise

customer delivers tbp

- full BOM containing MPN, manufacturer and circuit references
- ODB++ (CAD data), containing
 - component layers
 - outer copper layers (OCL)
 - solder mask
- requirements described in phase 0

tbp delivers customer

- DfM report* containing:
 - component placement issues
 - footprint issues
 - component placement recommendations
 - footprint recommendations
 - board complexity index

customer delivers tbp

- full BOM containing MPN, manufacturer and circuit references
- ODB++ (CAD data) (complete design)
- requirements described in phase 0

tbp delivers customer

- final DfM report* containing:
 - manufacturability recommendations
 - footprint issues
 - component placement issues
 - netlist verification
 - board complexity index
 - production yield

* if planned in advance, tbp will deliver DfX reports - regarding only one design - within 72 hours delivery time