



VDL TBP
ELECTRONICS

DESIGN FOR EXCELLENCE

FOCUS ON COST DRIVES OUT QUALITY

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DfM | DESIGN FOR MANUFACTURING

MAXIMISING DESIGN MANUFACTURABILITY

Maximising the manufacturability of the design equates to minimising repair work during production.

Preparatory phase

Client briefing

1

- Concept in block diagram format
- Key components
- Required delivery quality
- Desired delivery flexibility
- Anticipated product life cycle

VDL TBP Electronics advises

2

- DfM guidelines
- Data exchange guidelines
- General manufacturability recommendations, including preferred components

DfM phase

Client provides

3

- All product and design requirements
- Bill of materials for all components
- CAD data

VDL TBP Electronics reports

4

- Problems established with the design's manufacturability
- Specific recommendations for maximising the design's manufacturability, based on the reported problems
- Calculated production yield percentage

Design for eXcellence

DfM results

5

- Your designer can perfect the design for efficient and effective production
- You receive the calculated production yield percentages prior to production; we are the only EMS company to include percentages as a result commitment in our quotations
- Maximum production yield
- Maximum delivery quality
- Maximum delivery flexibility
- Maximum product reliability
- Maximum value of ownership

Right first time: only do the right things, right first time

DfT | DESIGN FOR TESTING

TEST COVERAGE AND TEST ACCESSIBILITY MAXIMISE DESIGN

Our Extended Boundary Scan test solution is the most effective and efficient mixed signal production test (incl. programming, calibration and coverage of functional test requirements).

Preparatory phase

Client briefing 1

- Concept in block diagram format
- Key components
- Required delivery quality
- Desired delivery flexibility
- Anticipated product life cycle

VDL TBP Electronics advises 2

- DfT guidelines
- Data exchange guidelines
- General recommendations for test coverage and test accessibility, including preferred components

DfT phase

Client provides 3

- All product and design requirements
- Bill of materials for all components
- Electronic diagram
- CAD data

VDL TBP Electronics reports 4

- Problems established with the design's test accessibility
- Specific recommendations for maximising the design's test accessibility and test coverage
- Optimum test strategy, financially substantiated for design complexity and required delivery quality
- Calculated delivery quality (ppm value)

Design for eXcellence

DfT results 5

- Every designer is able to perfect the design for maximum test coverage and test accessibility
- You receive the calculated production yield percentages prior to production; we are the only EMS company to include percentages as a result commitment in our quotations
- VDL TBP Electronics helps to realise the best possible solutions for production testing
- Maximum production yield
- Maximum delivery quality
- Maximum delivery flexibility
- Maximum product reliability
- Maximum value of ownership

Right first time: only do the right things, right first time