



DFM & Strategic Sourcing Checklist

Reduce Cost, Risk, and Time-to-Market in Electronics Manufacturing

How to Use This Checklist

- Use during design reviews and pre-production planning
- Check completed items
- Flag risks early
- Identify cost drivers before production

Component Selection

- Use active components only
- Ensure multi-sourcing where possible
- Avoid single-source risk
- Prefer standard package sizes

PCB Design

- Optimize layout for automation
- Minimize unnecessary layers
- Define panelization strategy
- Include fiducials

Assembly

- Consistent component orientation
- Adequate spacing
- Minimize manual assembly
- Optimize SMT vs through-hole

Testing & Quality

- Include test points
- Enable functional testing
- Define test strategy early
- Identify failure risks

Supply Chain Strategy

- Evaluate lead times
- Identify high-risk components
- Pre-approve alternates
- Consider geographic risk

Cost Optimization

- Review volume pricing
- Identify cost-down options
- Prioritize standard parts
- Evaluate total landed cost

Category	Score (1-4)
DFM Readiness	
Supply Chain Risk	
Cost Optimization	
Documentation	
Testing Readiness	

Score Guide: 15-20 = strong | 10-14 = moderate | Below 10 = high risk