Product Management Procedure



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What is a miniPCB?

A miniPCB is a printed circuit board that contains a layout of an electronic circuit.

A miniPCB has a mechanical design that is consistent with numerous similar miniPCBs.

A miniPCB has an interface connector that is simple and economical.

A miniPCB has educational documentation that is approved by an engineer.

A miniPCB is sold in minimum-order-quantities determined by the PCB panel size.

This document is available for free as a download from the GitHub repository:

https://github.com/miniPCB

This document is associated with the miniPCB Channel on YouTube:

https://www.youtube.com/@minipcb



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1. PURPOSE

The purpose of this document is to provide a system for managing the life cycle of miniPCBs.

2. SCOPF

The scope of this document is all outputs from the miniPCB™ development procedure.

3. RESPONSIBILITIES

Chief Engineer is responsible for maintaining this procedure.

Engineer developing a miniPCB is responsible for adhering to this procedure.

4. TERMINOLOGY AND ABBREVIATIONS

Terminology and abbreviations used throughout the miniPCB project are consistent with the definitions presented in this section.

Table 1 – Definitions and Abbreviations

TERM	DEFINITION
РСВ	Printed Circuit Board, Bare Board
РСВА	Printed Circuit Board Assembly, Bare Board + Parts + Assembly
SMD	Surface mount device
THD	Through hole device

5. PROCEDURE

5.1. LIFE CYCLE

Each miniPCB will be at one of the following phases:

5.1.1. IDEA PHASE

Purpose: Generate ideas for miniPCBs and record those ideas in the Product Catalog.

Activities: Creative thinking and early prototyping.

Conclusion: A kickoff video for a miniPCB development project.

5.1.2. DEVELOPMENT PHASE

Purpose: Develop miniPCBs and publish deliverables to the GitHub repository.

Activities: Design and development work.

Conclusion: A hardware release video for a miniPCB development project.

5.1.3. ACTIVE PHASE

Purpose: Help as many students and teachers as possible.

Activities: Procurement and order fulfillment.

Conclusion: A hardware obsolescence video changing a miniPCB status from Active to Obsolete.

5.1.4. OBSOLETE PHASE

Purpose: Provide a record for past efforts of the miniPCB project.

Activities: Refer customers to replacement products.



6. REFERENCES

miniPCB™ Design Standard

miniPCB™ Product Catalog

ECObase Template

TESTbase Template

7. CHANGE AND LIABILITY NOTICE

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8. TRADEMARK NOTICE

miniPCB is a trademark of Nolan Manteufel.

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WORDMARK	FIGUREMARK	FIGUREMARK
miniPCB™	mjntPCB _m	□ T™

9. REVISION HISTORY

REV	DESCRIPTION	ECO	DATE
Α	Initial Release	1013	15JAN2023
В	Moved sections included in Initial Release to the miniPCB Quality Manual. Added sections Idea, Prototype, Released, and Obsolete phases.	1015	16JAN2023
С	Revised wording throughout.	1026	29OCT2023