



Internal Specification – Level I
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Revision: 07
Effective Date: 11/25/2025
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Title: PCB SME

Base Materials for Rigid and Multilayer Printed Circuit Boards

TABLE OF CONTENTS

PURPOSE & SCOPE	1
INTERNAL SPECIFICATION	1
1. Specification	1
2. Implementation	1
DOCUMENT INFORMATION	2
REVISION HISTORY SUMMARY	2

PURPOSE & SCOPE

This Internal Specification (IS-004) authorizes the use of IPC-4101. IPC-4101 is the technical replacement for MIL-S-13949, which is being canceled effective 1 December 1998.

IS-004 is applicable to L3 Harris, Communications Systems-West (CSW) Salt Lake City and its suppliers and sub-tier suppliers.

INTERNAL SPECIFICATION

1. SPECIFICATION

Effective 01 December 1998, IPC-4101 shall replace MIL-S-13949:

- IS-004 shall be referenced on all new Printed Circuit Board (PCB) drawings used for the procurement of materials for the manufacturing of rigid and multilayer PCBs.
- All references to MIL-S-13949 on existing PCB drawings shall be considered as replaced by IS-004.

2. IMPLEMENTATION

- IS-004 shall be referenced on all PCB drawings released after 1 December 1998.
- Released PCB drawings and parts lists will not be revised.
- IS-004 will be provided to all approved PCB suppliers.

END OF DOCUMENT

DOCUMENT INFORMATION

Responsible Organization: Quality

Function/Sub-function: Hardware Quality Assurance

Governing Document: Y-001, L3 Technologies CSW Quality Manual

Subordinate Document(s): NA

Related Documents(s) IPC-4101, Specification for Base Materials for Rigid and Multilayer Printed Boards

Approval Requirements: Document Control Administration
Quality Representative (Director, Quality)
Operations Representative (PCB SME)
Engineering Representative (Manager, PCB Design)
Manager, Configuration Management

Review Requirements: DCMA

REVISION HISTORY SUMMARY

Revision #	Reason for update/revision	Date
New -03	Initial release through Rev. 03	Various
04	24 month review. Put into new format. No process changes made.	06/03/2009
05	24-month review. Removed Manager of Reliability Engineering and Changed Manager to Director of HPAFA in approval requirements.	08/01/2011
06	24-month review. Modified approval requirements. No other changes.	9/18/2014
07	Update format. No technical changes.	11/25/2025