



ASSOCIATION CONNECTING
ELECTRONICS INDUSTRIES®

IPC-2588

Sectional Requirements for Implementation of Part List Product Data Description



Endorsed by the International
Electronics Manufacturing
Initiative (iNEMI)

IPC-2588

May 2007

A standard developed by IPC

3000 Lakeside Drive, Suite 309S, Bannockburn, IL 60015-1249

Tel. 847.615.7100 Fax 847.615.7105

www.ipc.org



Documents

Document Sharing Hub

The Principles of Standardization

In May 1995 the IPC's Technical Activities Executive Committee (TAEC) adopted Principles of Standardization as a guiding principle of IPC's standardization efforts.

Standards Should:

- Show relationship to Design for Manufacturability (DFM) and Design for the Environment (DFE)
- Minimize time to market
- Contain simple (simplified) language
- Just include spec information
- Focus on end product performance
- Include a feedback system on use and problems for future improvement

Standards Should Not:

- Inhibit innovation
- Increase time-to-market
- Keep people out
- Increase cycle time
- Tell you how to make something
- Contain anything that cannot be defended with data

Notice

IPC Standards and Publications are designed to serve the public interest through eliminating misunderstandings between manufacturers and purchasers, facilitating interchangeability and improvement of products, and assisting the purchaser in selecting and obtaining with minimum delay the proper product for his particular need. Existence of such Standards and Publications shall not in any respect preclude any member or nonmember of IPC from manufacturing or selling products not conforming to such Standards and Publication, nor shall the existence of such Standards and Publications preclude their voluntary use by those other than IPC members, whether the standard is to be used either domestically or internationally.

Recommended Standards and Publications are adopted by IPC without regard to whether their adoption may involve patents on articles, materials, or processes. By such action, IPC does not assume any liability to any patent owner, nor do they assume any obligation whatever to parties adopting the Recommended Standard or Publication. Users are also wholly responsible for protecting themselves against all claims of liabilities for patent infringement.

IPC Position Statement on Specification Revision Change

It is the position of IPC's Technical Activities Executive Committee that the use and implementation of IPC publications is voluntary and is part of a relationship entered into by customer and supplier. When an IPC publication is updated and a new revision is published, it is the opinion of the TAEC that the use of the new revision as part of an existing relationship is not automatic unless required by the contract. The TAEC recommends the use of the latest revision. Adopted October 6, 1998

Why is there a charge for this document?

Your purchase of this document contributes to the ongoing development of new and updated industry standards and publications. Standards allow manufacturers, customers, and suppliers to understand one another better. Standards allow manufacturers greater efficiencies when they can set up their processes to meet industry standards, allowing them to offer their customers lower costs.

IPC spends hundreds of thousands of dollars annually to support IPC's volunteers in the standards and publications development process. There are many rounds of drafts sent out for review and the committees spend hundreds of hours in review and development. IPC's staff attends and participates in committee activities, typesets and circulates document drafts, and follows all necessary procedures to qualify for ANSI approval.

IPC's membership dues have been kept low to allow as many companies as possible to participate. Therefore, the standards and publications revenue is necessary to complement dues revenue. The price schedule offers a 50% discount to IPC members. If your company buys IPC standards and publications, why not take advantage of this and the many other benefits of IPC membership as well? For more information on membership in IPC, please visit www.ipc.org or call 847/597-2872.

Thank you for your continued support.



ASSOCIATION CONNECTING
ELECTRONICS INDUSTRIES®

IPC-2588

Sectional Requirements for Implementation of Part List Product Data Description

Developed by the CAD/CAM Convergence Subcommittee (2-17) of the
Data Generation and Transfer Committee (2-10) of IPC

Users of this publication are encouraged to participate in the
development of future revisions.

Contact:

IPC
3000 Lakeside Drive, Suite 309S
Bannockburn, Illinois
60015-1249
Tel 847 615.7100
Fax 847 615.7105

 **Documents**
Document Sharing Hub

Acknowledgment

Any document involving a complex technology draws material from a vast number of sources. While the principal members of the CAD/CAM Convergence Subcommittee (2-17) of the Data Generation and Transfer Committee (2-10) are shown below, it is not possible to include all of those who assisted in the evolution of this standard. To each of them, the members of the IPC extend their gratitude.

Data Generation and Transfer Committee

Chair
Karen McConnell
Lockheed Martin

CAD/CAM Convergence Subcommittee

Co-Chairs
Dan Smith
Mentor Graphics

Karen McConnell
Lockheed Martin

Technical Liaisons of the IPC Board of Directors

Nilesh S. Naik
Eagle Circuits Inc.

Sammy Yi
Flextronics International

CAD/CAM Convergence Subcommittee

Kjell Asp, Ericsson AB
Paul Barrow, Valor Computerized Systems
Gary Carter, Fujitsu Network Communications
Chris Czernel, Router Solutions
Art Griesser, National Institute of Standards & Technology (NIST)

Ed Hickey, Cadence Design Systems
Tero Karkkainen, Nokia
Dana Korf, Sanmina-SCI Corporation
Göran Lundqvist, Ericsson AB
Karen McConnell, Lockheed Martin
John Minchella, Celestica International

Norwood Sisson
Daniel Smith, Mentor Graphics Corporation
Louis Watson, Nacom Corporation

...



TABLE OF CONTENTS

1	SCOPE	1
1.1	Intent.....	1
1.2	Interpretation.....	1
2	APPLICABLE DOCUMENTS	2
3	REQUIREMENTS	2
3.1	Terms and Definitions	2
3.2	Categories and Content	3
4	GENERAL RULES	4
4.1	Parts List / Bill of Material	4
4.2	Content Elements	4
4.3	Logistic Header Elements	5
4.4	History Record Elements	5
4.5	Bill of Material Elements	5
4.5.1	BomHeader	5
4.5.2	BomItem	5
4.5.3	BomItem RefDesc	5
4.5.4	BomItem Characteristics	5
4.6	Approved Vendor List (AVL).....	6
4.6.1	AVL Header.....	6
4.6.2	AVL Item.....	6
5	MODELING.....	6
6	REPORT GENERATORS	7
7	REFERENCE INFORMATION	7
7.1	IPC.....	7
7.2	American National Standards Institute	7
7.3	Department of Defense	8
7.4	Electronic Industries Association	8
7.5	International Electrotechnical Commission (IEC)	8
7.6	International Organization for Standards (ISO)	8
	Appendix A Parts List Product Data Schema	9