



# IPC-7525B

2011 - October

## Stencil Design Guidelines

Supersedes IPC-7525A

February 2007

*A standard developed by IPC*

*Association Connecting Electronics Industries*



This is a preview. [Click here to purchase the full publication.](#)

---

**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](http://www.ipc.org) or call 847/597-2872.

Thank you for your continued support.



IPC-7525B

# Stencil Design Guidelines

Developed by the Stencil Design Task Group (5-21e) of the Assembly and Joining Processes Committee (5-20) of IPC

***Supersedes:***

IPC-7525A - February 2007

IPC-7525 - May 2000

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

This is a preview. [Click here to purchase the full publication.](#)

This Page Intentionally Left Blank

## Acknowledgment

Any document involving a complex technology draws material from a vast number of sources. While the principal members of the Stencil Design Task Group (5-21e) of the Assembly and Joining Processes Committee (5-20) 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.

---

### Assembly and Joining Processes Committee

Chair  
Leo Lambert  
EPTAC Corporation

### Stencil Design Task Group

Co-Chairs  
William E. Coleman, Ph.D  
Photo Stencil Inc.  
  
George Oxx  
Jabil Circuit, Inc. (HQ)

### Technical Liaisons of the IPC Board of Directors

Dongkai Shangguan  
Flextronics International  
  
Shane Whiteside  
TTM Technologies

---

### Stencil Design Task Group

Russell Nowland, Alcatel-Lucent  
Christopher Sattler, AQS - All Quality & Services, Inc.  
Ricky Bennett, Assembly Process Technologies  
Jay Hinerman, BAE Systems CNI Div.  
Ron Tripp, Cookson Electronics  
Jeff Schake, DEK International  
Craig Brown, DEK USA Inc.  
Richard Lieske, DEK USA Inc.  
Glenn Dody, Dody Consulting  
Robert Dervaes, FCT Assembly  
Michael Yuen, Foxconn CMMSG-NVPD  
Deepak Pai, General Dynamics Info. Sys., Inc

Joseph Brown, Hewlett-Packard Co- ProCurve Networking  
Jan Kilen, HP Etch AB  
Rongxiang Yang, Huawei Technologies Co., Ltd.  
Chris Anglin, Indium Corporation of America  
Tim Jensen, Indium Corporation of America  
William Kunkle, MET Associates Inc.  
Holly Wise, MicroScreen, LLC  
Robert Cass, Northrop Grumman Amherst Systems  
William May, NSWC Crane  
Narinder Kumar, Pelco by Schneider Electronics

Todd Woods, Photo Stencil Inc.  
Dale Kratz, Plexus Corporation  
Timothy Pitsch, Plexus Corporation  
Robert Rowland, RadiSys Corporation  
Guillermo Velazquez, Rain Bird Corporation  
David Nelson, Raytheon Company  
Jeff Shubrooks, Raytheon Company  
Mark Quealy, Schneider Automation Inc.  
Steve Sangillo, Swemco  
Daan Terstegge, Thales Nederland B.v. Huizen  
Richard Lathrop  
Ahne Oosterhof