

ENGINEERING PRACTICE STUDY
PROJECT NUMBER: 5998-2010-010

TITLE:

Review of Non-Government Standard IPC-2223
to Determine the Validity of Its DoD Adoption.

23 November 2009

FINAL REPORT

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ATTCH 3

I. **OBJECTIVES:** The objective of this study was to review reference document sections of all Federal Stock Classes (FSC) documents for guidance on retaining non-Government standard IPC-2223 as viable and appropriate for citing in electronic component standardization documents.

II. **BACKGROUND:** IPC-2223, "Sectional Design Standard for Flexible Printed Boards", was adopted on 01 September 1999 and the DoD notice of adoption has not been revised since that date. IPC-2223 was developed and published its non-Government standard body (NGSB), the IPC – Association Connecting Electronics Industries. The NGSB committee responsible for IPC-2223 meets regularly twice a year and DSCC attends the meetings to assist in keeping the document current and to monitor its content and status. This study is part of a 5-year review of the DoD adoption notice for validity and accuracy, since the NGS document has already been adopted for use by the DoD.

III. **RESULTS:** A review of the actual notice of adoption that is on the ASSIST web site uncovered mistakes in the information regarding out of date information for the Federal Stock Class (FSC), the title of the NGS, the point of contact data for both the NGSB and DSCC, and the notice also needs to be brought up to the current document format. A review using ASSIST to search for use of IPC-2223 within DoD documents resulted in three direct reference by DoD standardization documents. The NGS is referenced in MIL-PRF-31032/3 "Printed Wiring Board, Flexible, Single and Double Layer, with or without Plated-Through Holes, with or without Stiffeners for Soldered Part Mounting" (FSC 5998), MIL-PRF-31032/4 "Printed Wiring Board, Rigid Flex or Flexible, Multilayer, with Plated-Through Holes, with or without Stiffeners, for Soldered Part Mounting" (FSC 5998), and MIL-P-50884 "Printed Wiring Board, Flexible or Rigid-Flex, General Specification for" (FSC 5998).

The following is a compilation of the errors in the adoption notice on the ASSIST web site. The NGSB name and address on the adoption notice are also incorrect since the NGSB has changed its name since the adoption notice was issued. Another error is that the title of NGS is incorrect. The point of contact data for DSCC is also incorrect and needs to be updated. The Air Force custodian has changed from code 11 to code 85.

IV. **CONCLUSION:** Based on its citation by in the DoD standardization document listed in section III above, IPC-2223 is a valued design related document that benefits the DoD standardization program.

V. **RECOMMENDATION:** IPC-2223, "Sectional Design Standard for Flexible Printed Boards" (the current title of the NGS), should continue to be available for citing by DoD standardization documents. Therefore, the adoption notice for IPC-2223 shall be retained as an active, valid document. Attachment 1 is the DSCC prepared notice of adoption submitted to DAPS in 1999. Attachment 2 is the document that is currently available on the ASSIST web site. An updated notice of adoption with should be generated and forwarded to DAPS with current NGSB and DoD contact data. Attachment 3 is a proposed draft highlighting the errors and corrections that should be made to the notice of adoption for IPC-2223.

ADOPTION NOTICE

IPC-2223 "Sectional Design Standard for Flexible Printed Boards," was adopted on 1 September 1999 for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Defense Supply Center Columbus, ATTN: DSCC-VAC, 3990 East Broad Street, Columbus, OH 43216-1199. DoD activities may obtain copies of this standard from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. The private sector and other Government agencies may purchase copies from the Association Connecting Electronics Industries, 2215 Sanders Avenue, Northbrook, IL 60062-6135

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5998-0094)

ADOPTION NOTICE

IPC-2223, "Flexible Printed Boards, Sectional Design Standard for", was adopted on 01-SEP-99 for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Defense Supply Center Columbus, P.O. Box 3990, Attn: DSCC-VAI, Columbus, OH 43216-5000. Copies of this document may be purchased from the Institute for Interconnecting and Packaging Electronic Circuits, 2215 Sanders Road, Northbrook, IL 60062-6135. <http://www.ipc.org/>

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Adopting Activity:

DLA - CC

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Custodians:

Army - CR
Navy - EC
Air Force - ~~14~~ 85
DLA - CC

Adopting Activity:

DLA - CC

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil/>.