

ENGINEERING PRACTICE STUDY
PROJECT NUMBER: 5998-2010-015

TITLE:

Review of Non-Government Standard IPC-T-50
to Determine the Validity of Its DoD Adoption.

24 November 2009

FINAL REPORT

Prepared by:
Joshua Civiello

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-T-50 as viable and appropriate for citing in electronic component standardization documents.

II. **BACKGROUND:** IPC-T-50, "Terms and Definitions for Interconnecting and Packaging Electronic Circuits", was adopted on 15 September 1980 for a replacement for MIL-STD-429, and subsequently re-adopted in 1985 and 1988. IPC-T-50 was developed and published by its non-Government standard body (NGSB), the IPC - Association Connecting Electronics Industries. The NGSB committee responsible for IPC-T-50 meets regularly twice a year and DSCC attends the meetings to keep track of the document 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 using ASSIST to search for use of IPC-T-50 within DoD documents resulted in seven direct reference by DoD standardization documents: in FSC 5998: MIL-PRF-31032, MIL-PRF-31032/5, MIL-PRF-31032/6, MIL-P-50884, MIL-PRF-55110; and in FSC 5962 MIL-STD-883; and in FSC SESS MIL-STD-1662. IPC-T-50 is also used as a reference within various DoD adopted design standards for printed boards such as IPC-2221, IPC-2223, and IPC-2226. 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review of the actual notice of adoption that is on the ASSIST web site uncovered mistakes in the information regarding out of date information for the Federal Stock Class (FSC), the adoption date of the NGS was incorrect, the point of contact data for both the NGSB and DSCC, and the notice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. IPC-T-50 also supports the DoD efforts to enhance the standardization of data circuit card assemblies. The Air Force custodian code has changed from code 11 to code 85.

The following is a compilation of the errors in the adoption notice on the ASSIST web site. The NGS is currently classified in FSC SOLD and it should be classified in FSC 5998. The reason why IPC-T-50 is classified in FSC SOLD and not FSC 5998 is that FSC 5998 did not exist when the document was adopted. However, the notice for IPC-T-50 should have been converted to FSC 5998 or updated to reflect this fact. The NGSB name and address on the adoption notice are also incorrect since the NGSB has changed its name since the last adoption notice was issued.

IV. **CONCLUSION:** Based on its citation by MIL-PRF-31032, MIL-PRF-31032/5, MIL-PRF-31032/6, MIL-P-50884, MIL-PRF-55110, MIL-STD-883, and MIL-STD-1662, IPC-T-50 is a valued design related document that benefits the DoD standardization program.

V. **RECOMMENDATION:** IPC-T-50, "Terms and Definitions for Interconnecting and Packaging Electronic Circuits " (the current title of the NGS), should continue to be available for citing by DoD standardization documents and for acquiring activities. Therefore, the adoption notice for IPC-T-50 shall be retained as an active, valid document. Attachment 1 is the DESC prepared notice of adoption submitted to the Adopting Activity, Army CR, in 1980. Attachment 2 is the document that is currently available on ASSIST web site. An updated notice of adoption which 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-T-50.

IPC-T-50B
2 June 1980

USED INSTEAD OF
MIL-STD-429C
25 November 1974

ACCEPTANCE NOTICE

This non-Government document was adopted on 15 Sep 80 and is approved for use by the DoD. The indicated industry group has furnished the clearance required by existing regulations. Copies of the document are stocked by DoD Single Stock Point, Naval Publications and Forms Center, Philadelphia, PA 19120 for issue to DoD activities only. Contractors and Industry groups must obtain copies directly from IPC, 3451 Church Street, Evanston, Illinois 60203.

Title of Document

Terms and Definitions, for Interconnecting and Packaging Electronic Circuits

Date of Specific Issue Adopted:

2 June 1980

Releasing Industry:

The Institute for Interconnecting and Packaging Electronic Circuits

Custodians:

Army--ER

Navy--EC

Air Force--17

Military Coordinating Activity:

Air Force--17

Agent:

DLA--ES

Review Activities:

Army--MI

Navy--AS, MC, SH

Air Force--11, 26, 85, 99

NSA/S2

DLA--ES

(Project No. 5999-0567)

User Activities:

Army--ME, AR

Navy--CG, OS

Air Force--

ADOPTION NOTICE

IPC-T50, "CIRCUIT, INTERCONNECTING & PACKAGING ELECTRONIC, TERMS & DEFINITIONS", was adopted on 29-MAR-85 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 IPC - Association Connecting Electronics Industries 2215 Sanders Road Northbrook, Illinois, United States, 60062-6135. <http://www.ipc.org/>

Custodians:

Army - MI
Navy - AS
Air Force - 11
DLA - CC

Adopting Activity:

DLA - CC

Reviewer Activities:

Army - AR, AV, CR, MR
Air Force - 19
DLA - DH

AREA SOLD

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Custodians:

Army – MI
Navy – AS
Air Force – 85
DLA – CC

Adopting Activity:

DLA – CC

Reviewer Activities:

Army – AR, AV, CR, MR
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DLA – DH

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/>.

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FSC 5998