



Minutes of P-4 Committee on Mechanical Outlines of Passive Components

(UNOFFICIAL)

Wednesday, 19 October, 2005 Doubletree Hotel Downtown Memphis, TN

Scope of the P-4 Committee on Mechanical Outlines of Passive Components –
Provide standardization, administration, and circulation of mechanical outline drawings of electronic parts formatted per PDP-100 provided by industry participants.

- 1.0 Call to order
- 1.1 Chair Carl Lindquist called meeting to order 10:19AM
- 2.0 Introductions and Attendance
- 2.1 Membership and Attendance

The membership list was reviewed and adjusted to read as reflected in the following table

Member Organizations Present	<u>Present at this meeting</u>	<u>Present at previous meeting?</u>	<u>Present at meeting prior to previous?</u>
Cooper Bussman	N	Y	Y
Cornell Dubilier	Y	N	N
IBM Corporation	Y	Y	Y
Kemet	Y	Y	Y
KOA Speer Electronics	Y	Y	Y
Mini-Systems, Inc.	N	Y	Y
Panasonic	Y	Y	Y
SAN-O Industrial Corp.	Y	Y	Y
TDK	Y	Y	Y
Vishay	Y	Y	Y

Other Organizations Present
EIA/ECA

Attendees:

NAME	COMPANY
Michael Cannon	TDK
Terry Charles	Panasonic
Bill Gisseler	TDK
Michael Griffith	KOA Speer Electronics
Mike Lauri	IBM
Ray Lehman	Vishay
Carl Lindquist	SAN-O Industrial Corp.
Laird Macomber	Cornell Dubilier Electronics
Len Metzger	Panasonic
Ed Mikoski	EIA/ECA
Jayson Young	Kemet

3.0 Attendance sheet circulated

4.0 Agenda reviewed and accepted without change

5.0 Previous Meeting Minutes approved with no changes.

6.0 General Discussion

6.1 Role of ECA in Mechanical Outline Database Maintenance

6.1.1 Database Development and Upgrades

Carl Lindquist asked Ed Mikoski to bring the group up to date on the status of the database. The software still has not been upgraded to include the additional two digits indicating the number of leads for a given component. It was recommended that this database development be completed as quickly as possible to permit us to start posting a number of Mechanical Outlines on for a given component. This number is a two digit number between 2 and 99.

6.1.2 Database Content Maintenance

A point was made during a discussion with the members of the P-4 Committee that a copy of all files to be ultimately edited and placed into the final database were to be provided to the Chair, the Secretary and Ed Mikoski. Ed Mikoski's copy will be the archive file. We elected to leave the type of file open at this time. It may be closed at some later date to limit the way a vector file may be submitted for evaluation. The posted files will always be in a PDF format.

6.1.3 New Password protected Web Site for "In-Process" Mechanical Outlines – (Ed Mikoski)

Ed Mikoski provided a brief description of a new Web Site for "In Process Mechanical Outlines". We, as a committee will have access to several Mechanical Outlines at a time and comments will be sought concerning the acceptability of the posted outlines. As the feedback is obtained, and any changes made, the finalized drawings will be balloted at the next P-4 meeting. After successful balloting, the Mechanical Outlines may be dated and added to the database site as an approved Mechanical Outline.

6.2 Phase in schedule for "Limited Access" On-Line Mechanical Outline Database – Ed Mikoski explained that work on this database should be completed shortly. After it is made available, it was agreed that we will post approved Mechanical Outlines on this site – which will initially be password protected for review by only members of the ECA, P-4 Committee members. When there have been sufficient outlines for several different passive components added to the site, and the members of P-4 have determined that the site is stable, the password

protection will be removed. Potential users will be advised that the site is available for their use.

6.3 Review of "Guideline for Preparation and Submission of Mechanical Outlines for Passive Electronic Components to EIA/ECA-PDP-100, Draft 4" prepared by Stephen Olster and modified by Carl Lindquist.

6.3.1 Further modifications were made. All descriptions to remain as mechanical without regard to electrical characteristics. Total terminal count to be used, whether electrical or mechanical. Outline Variations and designations were discussed.

6.3.2 Definitions section was discussed. There was a question raised by the Chair as to whether or not to retain the "Definitions" section. It was believed that this would be needed and a request was made to include the definitions of each of the passive component types to be included in this document. The definitions will be added prior to the next meeting and the document will be posted.

6.3.3 A motion to accept this document was made and passed unopposed. The few changes that were discussed and approved will be made by the Chair and the document will be posted for final review.

6.4 Definitions agreed upon included:

Capacitor – Electronic component with two or more terminals that provides capacitance as its intended circuit function. Includes arrays having more than one capacitor.

Fuse - Electronic component with two or more terminals that provides over current protection as its intended circuit function. Includes arrays having more than one fuse.

Inductor - Electronic component with two or more terminals that provides inductance as its intended circuit function. Includes arrays having more than one inductor.

IPD - Integrated Passive Device containing a combination of two or more different passive components or a passive component and a diode. (e.g., capacitor and resistor) Includes arrays having more than one set or diodes.

Resistor - Electronic component with two or more terminals that provides resistance as its intended circuit function. Includes arrays having more than one resistor.

6.4.1 Provision by ECA of "Working" Web Folder to provide for posting of Mechanical Outlines in various stages of review with access to all P-4 Members.

6.4.2 A motion was made to accept the 31 previously submitted fuse Mechanical Outlines that had been updated per the last meeting. This motion was seconded and passed unopposed.

7.0 Mechanical Outlines

7.1 Proposed New Outlines for Approval

7.1.1 Acceptable Drawing Layouts (Review)

7.1.2 Acceptable File Formats

7.1.3 Approval of new outlines (Review)

7.2 New Outlines – P-1 Resistors – Mike Griffith
P-3 Inductors – William Gisseler
P-10 IPD's – Mike Griffith
P-14 Fuses – Dan Giblin / Carl Lindquist

- 7.3 Assignments Associated with Various Passive Components
 - 7.3.1 Committees
 - 7.3.1.1 Fuses – No new outlines submitted
 - 7.3.1.2 Capacitors – No outlines submitted
 - 7.3.1.3 Resistors – Outlines being reviewed and edited by Michael Griffith
 - 7.3.1.4 Inductors – Outlines being reviewed and edited by William Gisseler
 - 7.3.1.5 Integrated Passive Devices (IPD's) – Outlines being reviewed and edited by Michael Griffith
 - 7.3.2 Representatives for each Committee – List of Names requested by Carl Lindquist for future participation. Unless other names are provided, we will use the names associated with Web Site Development and Maintenance.
- 8.0 Mechanical Outline Web Site Development and Maintenance
 - 8.1 Drawing Numbering System
 - 8.1.1 Fuses – Carl Lindquist
 - 8.1.2 Resistors – Michael Griffith
 - 8.1.3 Capacitors – Michael Cannon
 - 8.1.4 Inductors – William Gisseler
 - 8.1.5 Integrated Passive Devices (IPD's) – Michael Griffith
 - 8.1.5.1 Numbering system for DIMS and SIMS – resolved.
 - 8.1.5.2 Alpha ID for IPD's with two or more different components (e.g. R-C package) – It was decided that no specific component reference will be added to enhance content description beyond the IPD definition.
 - 8.2 Database development schedule
 - 8.2.1 It was agreed that we would like to have an updated and operational database functioning by the Spring, 2006 meeting. This will be password protected.
- 9.0 New Business
 - 9.1 P2.1 Chair, Michael Cannon posed question on package style CC 0201, E 0201 – M for Metric. After some discussion, Mike was referred to PDP 100 Guidelines document nomenclature used only for the purpose of registration of mechanical outlines.
- 10.0 Old business – None
 -
- 11.0 Announcements – None
 -
- 12.0 Next Meeting – Sheraton Yankee Trader Beach Hotel, Ft. Lauderdale, FL – April 24 - 29, 2006
- 13.0 Adjournment at 12:11PM

We thank all present for their participation.

This meeting was conducted in accordance with the EIA Legal Guidelines and the Manual of Organization Procedures.

Carl E. Lindquist
Chairman

Len Metzger
Secretary