



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

Wednesday, October 6, 2004 Holiday Inn on the Bay San Diego, CA

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.

Attendees:

NAME		COMPANY
Susan	Barkal	Kemet
Terry	Charles	Panasonic
Ted	Coler	Vishay Dale
Dan	Giblin	Cooper Bussmann
Bill	Gisseler	TDK
Michael	Griffith	KOA Speer Electronics
Mike	Lauri	IBM
Carl	Lindquist	San-O Industrial Corp
Karun	Malhotra	Murata
Len	Metzger	Panasonic
Ed	Mikoski	EIA/ECA
Steve	Olster	Mini-Systems, Inc.

1.0 Call to Order

1.1 Chairman Carl Lindquist called meeting to order 10:05AM

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. A quorum was present.

Member Organizations Present	Present at	Present at	Present at
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	<u>this meeting?</u>	<u>previous meeting?</u>	<u>meeting prior to previous?</u>
Cooper Bussman	Y	Yes	No
IBM Corporation	Y	N	Y
Kemet	Y	No	Yes
KOA Speer Electronics	Y	Yes	Yes
Mini-Systems, Inc.	Y	Yes^	n/a
Murata	Y^	n/a	n/a
Panasonic Industrial Co.	Y	Yes	Yes
SAN-O Industrial Corp.	Y	Yes	Yes
TDK	Y	Yes	Yes
Vishay	Y	Yes	Yes

^ indicates activated as member of committee

<u>Member Organizations Absent</u>	<u>Present at this meeting?</u>	<u>Present at previous meeting?</u>	<u>Present at meeting prior to previous?</u>
AEM	N	Yes	No
Cornell-Dubilier	N	Yes	No
DSCC	N	No	Yes
Intel	N	Yes^	n/a
Maxwell Technologies*	N	No	No
SEI Electronics	N	No	Yes

*Indicates dropped for Quorum calculation due to history of non-attendance

<u>Other Organizations Present</u>
EIA/ECA

3.0 Attendance sheet circulated

4.0 Previous Meeting Minutes approved with no changes.

5.0 Attendance sheet circulated

6.0 Previous Meeting Minutes approved with no changes.

7.0 General Discussion

7.1 Items to be added to New business – none

7.2 Secretary volunteer solicited. Len Metzger nominated, seconded and elected.

7.3 Role of ECA in Mechanical Outline Database Maintenance

7.3.1 Database Development and Upgrades reviewed with attendees.

7.3.2 Database content Maintenance reviewed with attendees and presentation provided by Ed Mikoski showing latest Web Site menu proposal. This was well received by all members.

7.4 Phase-in schedule for On-line Mechanical Outline Database

7.4.1 Database to be implemented on ECA Central Web Site with password protection for review by members of P-4.

7.4.2 Implementation will be attempted by the Spring 2005 meeting.

7.4.3 Attempts will be made to include latest mark-ups of Mechanical Outlines for Resistors, Capacitors, Inductors and IPD's prior to posting new database.

8.0 Mechanical Outlines

8.1 Review of "Guideline for Preparation and Submission of Mechanical Outlines for Passive Electronic Components to EIA-ECA-PDP-100, Draft 3" prepared by Steve Olster.

8.1.1 It was agreed that "definitions" section will be implemented and several recommendations for needed terms were mentioned. This will be reviewed and list of terms will be provided by Carl Lindquist.

8.1.2 Formalization and approval of the final "Guideline" document will be held pending incorporation of definitions and any new issues noted by members by the next meeting.

8.2 Proposed New Outlines for approval –

8.2.1 Mike Griffith used Visio to create Resistor, Capacitor, Inductor and IPD drawings and pasted them into Microsoft Excel along with associated dimension tables by variation letter code. Minor corrections mentioned at the meeting will be corrected by Mike for submission for the next meeting. These Mechanical Outlines will be added to database upon receipt if corrections are completed.

8.2.2 Font size for table should be readable on display screen (now 10 point). Drawings will be in portrait mode. Original editable electronic copies need to be archived at ECA/EIA, though actual Web posting will be in pdf form (Acrobat 5.0 min).

8.2.3 Ted Coler also provided several Outlines in AutoCAD format. These had not yet been corrected for ECA Mechanical Outline layout or new ECA Numbering System. These will be corrected by Ted and returned to CL for review and inclusion in the password protected database for initial evaluation.

8.3 Acceptable Drawing Layouts reviewed with attendees.

8.3.1 Agreed that some drawings will require 4 rather than the present 3 views.

- 8.3.2 Agreed that "Recommended Land Pattern" could be either fully dimensioned or dimensions may be included in the related "Variation" table with letter reference to drawing.
- 8.4 Acceptable File Formats
 - 8.4.1 Agreed that CAD drawings (e.g. AutoCAD, DesignCAD, etc.) for originals with final format in Adobe PDF was preferred.
 - 8.4.2 Use of Microsoft Excel layout using Visio drawings appears acceptable alternative.
 - 8.4.3 All original CAD/Excel/Visio files will be retained by ECA Headquarters as archive for future P-4 Subcommittee member reference.
- 8.5 Approval of new outlines
 - 8.5.1 No new outlines ready for P-4 Subcommittee review.
 - 8.5.2 All pending Mechanical Outlines will be corrected as discussed above and forwarded to C. Lindquist for review and initial posting on password protected Web Site.
 - 8.5.3 These will be temporary approvals that will be reviewed again by the entire P-4 Subcommittee at the Spring 2005 meeting.
- 8.6 Assignments Associated with Various Passive Components
 - 8.6.1 It was agreed that Working Groups within the P-4 Subcommittee, as originally envisioned would not be needed.
 - 8.6.2 Each Passive Component Subcommittee (e.g. P-1, P-2, P-3, Etc.) will create actual Working Groups, as needed.

9.0 Mechanical Outline Web Site Development and Maintenance

- 9.1 Drawing Numbering System – variations (AA, AB, etc.) on additional sheets. Designation number identifies device category, i.e. Fuse, Resistor, Capacitor, Inductor, Integrated Passive Device (IPD). Now 1st word of Title becomes the readable device category in Rev. B.
 - 9.1.1 Fuses
 - 9.1.2 Resistors
 - 9.1.3 Capacitors
 - 9.1.4 Inductors
 - 9.1.5 Integrated Passive Devices (IPD's)
- 9.2 Database Development Status –
 - 9.2.1 Ed Mikosky reviewed status. Pulldowns through the tree with Outline Drawing #(s) result, meeting selected criteria, shown at the bottom. Drawings to be posted in pdf form.
 - 9.2.2 Action Items for Ed Mikoski and IT Group
 - There should be an option for Help, taking the user to the Guideline document.
 - Legend / Key at bottom showing the definitions for the various selections.
 - Disclaimer: Note indicating users should get actual / CAD drawing from the manufacturer.

9.3 Initial Mechanical Outline Submissions and Future Proposals

9.3.1 New drawings will be submitted through Carl Lindquist to Ed Mikosky for posting on password protected Web site staging area without necessarily being approved.

9.3.2 Possibility of adding component categories later, e.g. RC Networks, etc.

10.0 New Business - none

11.0 Old Business

12.0 Announcements – Call for Papers for CARTS.

13.0 Next Meeting: New Orleans, LA – Chateau Sonesta Hotel – May 16~19, 2005

14.0 Adjournment 11:32AM

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

Carl Lindquist
Chairman

Len Metzger
Secretary