



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

Wednesday, 02 April, 2008 Brown Hotel, Louisville, KY

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 10:00 AM
 - 1.2 Introductions
- 2.0 Membership and Attendance

<u>NAME</u>	<u>COMPANY</u>
Bill Gisseler	TDK
Mike Lauri	IBM
Mihee Lee	Samsung Electro-Mechanics
Carl Lindquist	SOC America, Inc.
Laird Macomber	Cornell Dubilier Electronics
Dave Richardson	Vishay
Jayson Young	KEMET
Joe Biernacki	Stackpole
Ralph Justus	EIA/ECA

- 2.1 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>
Cornell Dubilier	Y	Y	Y
IBM Corporation	N	Y	Y
Intel Corp.	N	N	N
Jabil Circuits	N	N	N
Kemet	Y	Y	Y
KOA Speer Electronics	N	N	Y
Mini-Systems, Inc.	N	N	N
Samsung Electro-Mechanics	N	N	Y
SOC America, Inc.	Y	Y	Y
TDK	Y	Y	Y
Vishay	N	Y	N
Stackpole Electronics	Y	Y	Y

Other Organizations Present
EIA/ECA

- 3.0 Attendance sheet circulated
- 4.0 Agenda reviewed and accepted without change.
- 5.0 Meeting minutes were reviewed and accepted without change.
- 6.0 General Discussion
 - 6.1 Role of ECA in Mechanical Outline Database Maintenance
 - 6.1.1 Database Development and Upgrades

Software presently employed includes DesignCAD and Excel/Visio. While the Excel/Visio format has been used by Mike Griffith, KOA Speer, Mike is no longer participating and there was no representative from KOA at this meeting. There was a general consensus that we should be further reducing the options to the DesignCAD format. It was confirmed that this software is readily available on-line for under \$60.00. Many of the already approved Mechanical Outlines were provided in the Excel/Visio format and they will be retained. Over 60 new files employing Excel/Visio were provided to the chair a day prior to this meeting by Brian Piscitelli, KOA. A review of more than half of these files indicated that they were ready to be submitted for acceptance by P4.

Carl Lindquist will continue to review the remaining files from KOA and enter them on the Status Matrix. We will review these Mechanical Outlines at the next meeting for acceptance.

6.1.2 Database Content Maintenance

It was noted by the chair that we will need to have the PDF and Development Files for each Mechanical Outline for future maintenance. These files will be archived at the ECA Headquarters.

An updated Status Matrix was projected and the significant number of in-process Outlines was highlighted. We do not have the original editable files for most of these Outlines, so they will require replacements. We presently have approved and pending Mechanical Outlines for

all passive categories, except capacitors. Ralph Justus will find a protected area where P4 members can access the latest Status Matrix.

6.1.3 New Password protected Web Site for "In-Process" Mechanical Outlines

Ralph Justus will try to identify the best method for carrying out this function, while still keeping the in-process outlines private.

6.2 The "Guideline for Preparation and Submission of Mechanical Outlines for Passive Electronic Components to EIA/ECA-PDP-100, Rev. B, 26 September, 2007" was discussed briefly. This will be located on-line where it can be accessed by both members and non-members to permit interpretation of the Mechanical Outline numbers.

7.0 Mechanical Outlines

7.1 Proposed New Outlines for Approval

7.1.1 Acceptable Drawing Layouts

7.1.1.1 There were no changes to the list of acceptable File formats. While the other formats will remain, members will attempt to get DesignCAD for future preparation of Mechanical Outlines.

7.1.1.2 The final format will remain PDF.

7.2 Approval of new outlines

Six prior Mechanical Outlines had been reviewed on-line since the last meeting. These had been generated by Mike Griffith in the Excel/Visio format. They were reviewed by the P4 members and accepted as presented with minor editorial changes. The six Mechanical Outlines accepted were:

SLCM02 060302
SLCM02 100503
SLCM02 100505
SLCM02 100506
SLCM02 100805
SLCM02 161009

The editorial changes included eventual removal of a marking "15N" on one view of SLCM02 100503 and SLCM02 160805. It was agreed that removal of this marking will be carried out with the next revision.

With the submission of a collection of files by KOA, we are still missing several of those editable files for Outlines originally submitted by Mike Griffith. These will have to either be obtained or redrawn.

7.2.1 A total of 40 approved mechanical outlines now exist. There are over 100 additional pending drawings that are awaiting action by members. It has been noted that the ECA Message Board had been found difficult to use for review and balloting. We should identify a different method for carrying out reviews and approvals between meetings to expedite approval of the growing number of outlines.

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 – Six new outlines had been approved on-line and were formally accepted at the this meeting. Approximately 41 new outlines are pending review
- 7.3.1.4 Inductors – No new outlines submitted. Approximately 18 new outlines are pending review
- 7.3.2 Integrated Passive Devices (IPD's) – No new outlines submitted. Approximately 10 new outlines are pending review.

8.0 Mechanical Outline Web Site Development and Maintenance

8.1 Drawing generation an coordination

- 8.1.1 Fuses – Carl Lindquist, SOC America, Inc.
- 8.1.2 Resistors – Joe Biernacki, Stackpole
- 8.1.3 Capacitors – Jayson Young / Mike Richardson
- 8.1.4 Inductors – William Gisseler
- 8.1.5 Integrated Passive Devices (IPD's) – Open

8.2 Database development schedule

8.3 Ralph Justus was requested to provide an overview of where we are with regard to a functional on-line search database. He projected what had been developed by the ECA IT Group to date and it was about the same as the demonstration provided several meetings ago by Ed Mikoski. Several recommendations were made by the attendees for additions and changes. We will try to have an on-line, password protected, database site for review by members of P4 by the Fall meeting.

8.4 It was agreed that ECA member companies will eventually be able to link from "Variations" identified on each Mechanical Outline to their own Web Sites. However, the ECA will only be responsible for creating the link. Each member company will be responsible for all maintenance beyond the link.

8.5 The initial database should be password protected with access made available to all members of P-4.

9.0 New Business – None

10.0 Old business – None

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11.0 Announcements – None

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12.0 Next Meeting – Red Lion Hotel, Salt Lake City, UT – 10/06 – 08, 2008

13.0 Adjournment at 11:45 AM

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

Secretary