



**Minutes of P-4 Committee on Mechanical Outlines of Passive Components  
(UNOFFICIAL)**

**Wednesday, 08 October, 2008    Red Lion Hotel, Salt Lake City, UT**

**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 03:40 PM
  - 1.2    Introductions
- 2.0    Membership and Attendance

<b>NAME</b>	<b>COMPANY</b>
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
Ted Coler	Vishay
Mike Cannon	TDK Corp.
Harizo Yawary	Cisco Systems
Nasir Samiee	Cisco Systems
Scott Carter	Tek Pak
Ralph Justus	EIA/ECA

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

<b>Member Organizations Present</b>	<b><u>Present at this meeting</u></b>	<b><u>Present at previous meeting?</u></b>	<b><u>Present at meeting prior to previous?</u></b>
Cornell Dubilier	Y	Y	Y
IBM Corporation	Y	N	Y
Intel Corp.	N	N	N
Jabil Circuits	N	N	N
Kemet	Y	Y	Y
KOA Speer Electronics	N	N	N
Mini-Systems, Inc.	N	N	N
Samsung Electro-Mechanics	N	N	N
SOC America, Inc.	Y	Y	Y
TDK	Y	Y	Y
Vishay	Y	N	Y
Stackpole Electronics	N	Y	Y

<b>Other Organizations Present</b>
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 employed still includes DesignCAD and Excel/Visio. While the Excel/Visio format had been used by Mike Griffith, KOA Speer, it was noted that few participants have access to Excel/Visio software. There remained a general consensus that we should be further reducing the options to the DesignCAD format. This software is now much less expensive and will likely be best suited for future submissions. Many of the already approved Mechanical Outlines were provided in the Excel/Visio format and they will be retained for the immediate future.

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 again 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. Copies of the editable files and PDF files were provided to Ralph Justus prior to this meeting.

An updated Status Matrix was projected and the significant number of ready to ballot Outlines was highlighted. We did not have the original editable files for many of these Outlines, so they were recreated by Carl Lindquist and provided to ECA. We continue to 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 and updated Outlines awaiting review and approval.

#### 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.

6.1.4 A proposed new on-line database page was provided to the chair just prior to our meeting. While the layout appears acceptable, it was not functional. Ralph Justus was provided with immediate feedback concerning changes that should be made and the need for a rapid implementation of a proposed operational database page. It was agreed that a new operational page would be made available on-line for members within 3 weeks of this meeting. While there was mention that this page would not require password protection, it was noted that if no password protection is provided, the Mechanical Outlines will be quickly disbursed on search sites, such as Google. This issue should be taken up by the ECA IT group.

6.1.5 Earlier discussions with Bob Willis, ECA President, some concern was expressed by Mr. Willis that direct access to the Mechanical Outline "VARIATIONS" may cause legal problems with those that are not provided access because they are not members. There are also questions regarding the accuracy of the dimensions given in the "VARIATIONS". If they are not accurately portrayed on the site, who is liable? Because of these questions, it was decided that we would proceed with the database, but hold off on actual linkage to the manufacturers' Web Sites from the "VARIATION" at this time. It will be acceptable for participating companies to reference a specific Mechanical Outline and "VARIATION" in their data sheets and catalogs. Linkage to EIA documents related to the specific Mechanical Outline via a link to the Outline number will proceed.

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 is 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

Twenty-three Mechanical Outlines were reviewed at this meeting. These had been generated by Mike Griffith in the Excel/Visio format and many were redrawn by Carl Lindquist to update and correct drawing numbers and layouts. They were reviewed by the P4 members and accepted as presented with minor editorial changes. After reviewing these drawings, it was decided that the process was very tedious and all agreed that the chair would complete review of the remaining Outlines and provide them to Ralph Justus for posting on the password protected database site.

Drawings that were formally approved at the meeting were:

RRBC04 100205	RRBC05 140206	RRBC08 190208	RRBC10 240208
RRBC04 100208	RRBC06 140208	RRBC08 200205	RRBC11 270205
RRBC04 090206	RRBC06 150205	RRBC08 200208	RRBC11 270208
RRBC05 120205	RRBC06 150208	RRBC09 220205	SLCM02 200209
RRBC05 120206	RRBC07 170205	RRBC09 220206	SMGM14 863816
RRBC05 120208	RRBC08 190206	RRBC10 240206	

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 59 approved mechanical outlines now exist. There are 36 additional drawings that were reviewed by Carl Lindquist and found acceptable after minor corrections. This totals 98 approved Outlines and 39 additional pending drawings that are awaiting action by members. Additional Outline files exist, but they will require searching through Mike Griffiths original files and reformatting, correcting and finalizing prior to submission to P4.

7.2.2 It was agreed that available editable files and other PDF files that need work would be provided to Bill Gisseler, Ted Coler, Jayson Young and Mike Cannon for further work between meetings.

7.2.3 A question raised during review of the higher lead containing resistors that were reviewed was if we should be incorporating a cumulative pitch statement or numerical limit for those components that have over a given number of lead pairs. Ted Coler will look into this issue regarding resistors. Those involved with other technologies should also be reviewing this issue.

7.2.4 There was a question related to "C" dimensions defining permissible lead offset for SIM's. The present offset dimension covers limits for the entire lead set – not lead-to-lead offset limits.

### 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 – No new outlines submitted

7.3.1.4 Inductors – No new outlines submitted.

7.3.1.5 Integrated Passive Devices (IPD's) – No new outlines submitted.

## 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 / Ted Coler

8.1.3 Capacitors – Jayson Young / Mike Richardson / Mike Cannon

8.1.4 Inductors – William Gisseler

8.1.5 Integrated Passive Devices (IPD's) – Brian Piscitelli

### 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. The operational database will be placed on the EC-Central cite with password protection within 3 weeks of this 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. There will also likely be a need for a legal disclaimer prior to permitting final connection.

9.0 New Business – None

10.0 Old business – None

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11.0 Announcements – None

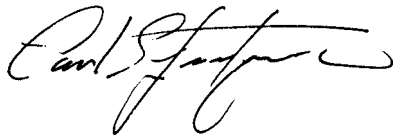
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12.0 Next Meeting – Chateau Sonesta Hotel, New Orleans, LA – April 27 - 29, 2009

13.0 Adjournment at 05:15 PM

We thank all present for their participation.

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



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Carl E. Lindquist  
Chairman

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Secretary