



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

Wednesday, 27 September, 2006 Silver Legacy Resort, Reno, NV

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
- 2.0 Introductions and Attendance
- 2.1 Membership and Attendance

<u>NAME</u>		<u>COMPANY</u>
Teresita (Teri)	Arguelles	Jabil Circuits, Inc.
Joe	Biernacki	Stackpole
Ted	Coler	Vishay
Bill	Gisseler	TDK
Michael	Griffith	KOA Speer Electronics
Gonzalo	Herrera	Jabil Circuits, Inc.
Mike	Lauri	IBM
Mihee	Lee	Samsung Electro-Mechanics
Carl	Lindquist	SAN-O Industrial Corp.
Laird	Macomber	Cornell Dubilier Electronics
Len	Metzger	Panasonic
Ed	Mikoski	EIA/ECA

2.2 A quorum was present. The membership list was reviewed and adjusted to read as reflected in the following table:

Member Organizations Present	<u>Present Reno</u>	<u>Present Ft Lauderdale?</u>	<u>Present Memphis?</u>
Cornell Dubilier	Y	Y	Y
IBM Corporation	Y	Y	Y
Jabil Circuits	Y	Y	N
KOA Speer Electronics	Y	Y	Y
Panasonic	Y	Y	Y
Samsung Electro-Mechanics	Y	Y	N
SAN-O Industrial Corp.	Y	Y	Y
Stackpole Electronics	Y	N	N
TDK	Y	Y	Y
Vishay	Y	Y	Y

Member Organizations Absent	<u>Present Reno</u>	<u>Present Ft Lauderdale?</u>	<u>Present Memphis?</u>
Cooper Bussman	N*	N	N
Intel Corp.	N	Y	Y
KEMET	N	N	Y
Mini-Systems, Inc.	N	Y	Y

* Not used in determination of a quorum due to non-participation

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

Carl Lindquist provided an overview of the purpose of the committee and work to date. Ed Mikoski asked if the numbering system was finalized. The members present opened this topic for discussion by the members present and the numbering system was confirmed for use in a database yet to be developed. During this discussion, Mike Lauri asked about where the BGA surface mount devices would be covered. It was agreed that these would be added as a reference to the surface mount type "L".

With this information available, it was agreed that the existing 12 digit description will cover all existing passive components. The one exception may be that the number of contacts could exceed 99 for connectors, if they become involved with this database. It was recommended that the database developer consider leaving three digits for this parameter to eventually cover the potential increases associated with connectors, but we will proceed with what is presently in our "Guidelines for Preparation".

With this agreement, Ed Mikoski was requested to proceed with the development of a database.

6.1.2 Database Content Maintenance

The latest Mechanical Outline files, including approved and pending files, were provided to the Secretary for oversight control. Copies of all original and PDF files will be maintained by the P-4 Secretary and the ECA. There are presently 34 Approved Mechanical Outlines ready for inclusion.

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

It was agreed that Ed Mikoski will be provided with an Excel spreadsheet with a complete list of approved Mechanical Outlines. A copy of this spreadsheet will be added to the ECA Web Site under the P-4 Committee section. Mike Griffith will initiate the Excel spreadsheet list and provide it to Carl Lindquist for expansion with the complete set of approved outlines. This finalized list will then be forwarded to Ed Mikoski and Len Metzger for archives and posting.

6.2 The "Guideline for Preparation and Submission of Mechanical Outlines for Passive Electronic Components to EIA/ECA-PDP-100, 26 April, 2006" was discussed to remind all that this will be the reference for Mechanical Outline preparation. During the discussion, a few editorial issues were noted. These errors will be corrected and the document will be forwarded to Ed Mikoski for posting on the ECA Web Site under the P-4 Committee.

- 6.3 It was requested that the present ECA Web Site, P-4 page be cleaned up, removing the old references and documents. This will be undertaken by Carl Lindquist through Ed Mikoski.

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. We will continue to accept AutoCAD, DesignCAD, Excel and Visio files as working files. All final Outlines for posting will be in PDF format.

7.2 Approval of new outlines

- 7.2.1 No new outlines were submitted for this meeting. Mike Griffith referred to approximately 15 new outlines that were forwarded to Carl Lindquist for review in July. These were never received. Mike said he will have to make some changes, but would resubmit these drawings as soon as possible. They will be taken up one at a time using the ECA Message Board and finalized at the Spring, 2007 meeting.
- 7.2.2 There was a correction noted for the approved drawings shown in our meeting minutes. The SLCM02 060302 outline had been shown as "Approved". This drawing was actually Tabled. The SMGM08 483816 outline had been shown as "Tabled", but is was actually Approved.

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 and Mike Griffith
- 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 generation an coordination

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

8.2 Database development schedule

- 8.2.1 The operational database will be held up pending receipt of more Accepted passive component Mechanical Outlines.
- 8.2.2 The initial database will be password protected with access made available to all members of P-4.

9.0 New Business

Ed Mikoski brought up a proposal for the future that we look into providing three dimensional drawings of the components covered by the Mechanical Outlines for use in printed circuit board layout. This will be a complex task. It was recommended that we first get the database up and running, then we will look into this effort. All were asked to keep this in mind when getting requests for such 3-D components. They were asked to request the CAD or other package format needed.

10.0 Old business – None

--

11.0 Announcements – None

--

12.0 Next Meeting – Holiday Inn, San Diego Bayside – 04/16 –19/2007

13.0 Adjournment at 11:15 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

Len Metzger
Secretary