



Minutes of P-10 Committee on Integrated Passive Devices

Tuesday 15 April, 2003

Mission Palms Tempe

Tempe, AZ

P-10 Committee's Scope:

Develop and support standards and specifications for electronic devices that are passive electronic networks including combinations of resistors, capacitors, and inductors. Active devices such as diodes may be included.

Attendees:

NAME	COMPANY
Michael Cannon	TDK Corporation
Terry D. Charles	Panasonic
Mark Cohen	Maxwell Technologies
Ted Coler	Vishay
Robert Galli	Panasonic
Mike Lauri	IBM Corp
Ming Li	AEM, Inc.
Carl Lindquist	San-O Industrial
Laird L. Macomber	Cornell Dublier
Maher Mahmud	IBM Corp
Karun Malhotra	Murata Electronics
Ed Mikoski	EIA/ECA
Stephen Olster	Mini-Systems Inc
Randy Pinkelman	Vishay Dale Resistors
Brian Piscitelli	KOA Speer Electronics
Dave Ritchey	Yageo/Phycomp
Keith Seamands	Visteon

The meeting was called-to-order by Chairman Brian Piscitelli at 11:00 am.

1.0 Introductions

2.0 Committee Organization and Procedures

2.1 Membership and Attendance

Attendance was taken, and it was determined that a quorum was present.

<u>Member Organizations Present</u>	<u>Present at this meeting</u>	<u>Present at previous meeting?</u>	<u>Present at meeting prior to previous?</u>
AEM, Inc.	Yes	Yes	No
Cornell Dublier	Yes	No	No
IBM Corp	Yes	Yes	Yes
KOA Speer Electronics	Yes	Yes	Yes
Maxwell Technologies	Yes	No	No
Mini-Systems Inc	Yes	No	No
Murata Electronics	Yes	Yes	No
Panasonic	Yes	Yes	No
San-O Industrial	Yes	No	No
TDK Corporation	Yes	No	No
Vishay	Yes	Yes	No
Vishay	Yes	Yes	No
Visteon	Yes	No	No
Yageo/Phycomp	Yes	Yes	Yes

<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>
AVX	No	Yes	No
Cooper Electronics*	No	No	No
CTS	No	Yes	No
Kemet	No	Yes	No
Littelfuse	No	Yes	No
Lucent Technologies*	No	No	No
Presidio Components	No	Yes	No
SEI	No	No	Yes
Taiyo Yuden*	No	No	No

* Not counted in determination of quorum due to non-attendance

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

2.2 Approval of Agenda

Agenda was unanimously approved.

2.3 Approval of October 2003 meeting Minutes

Minutes were unanimously approved.

2.4 Correspondence

No correspondence received.

3.0 Old Business

3.1 Review P-10 Scope Statement.

The scope was changed to the following:

“Develop and support standards and specifications for electronic devices that are passive electronic networks including combinations of resistors, capacitors, and inductors. Active devices such as diodes may be included.”

3.2 Status of PN-4944 (RC test performance spec) for EDEC approval

The group voted to resend the document out for review and comment. Brian Piscitelli to get an electronic copy to Ed at EIA so Ed can send out for review.

3.3 IPD Chip Scale Package Test (PN-4996)

The group voted to resend the document out for review and comment. Brian Piscitelli to get an electronic copy to Ed at EIA so Ed can send out for review.

3.4 Review additional IPD Circuit Registration Requests

No new IPD registrations have been received.

3.5 IPD Application Guide

A sub-committee (Brian Piscitelli, Steve Olster, Randy Pinkleman) was started to continue the rough draft work once started and complete the Application Guide. Brian Piscitelli will also contact Bernie Aronson to see what if any work he has completed in this area.

3.6 Discussion of Dennis Zogbi's LTCC Presentation from Fall 2002 Meeting

The group had an open discussion on LTCC and other technologies and how the group should proceed. The big hang-up is getting the voice of the user. A sub-committee (Chris Reynolds, Ted Coler, Dave Ritchey and possible someone from Murata) was started develop a survey on LTCC and IPD's to be sent out to users to gather information. Once the survey is completed and returned to EIA the data will be analyzed and the group will then determine how to proceed.

4.0 New Business

4.1 Status of supplying IPD outlines to PDP-100 (P-4)

Brian Piscitelli to check with Mike Griffith to determine what outlines were completed and submitted.

5.0 Next Meeting

The next meeting will be at the ECA Fall Engineering Summit to be held the week of 6 October, 2003 at San Antonio, Texas.

6.0 Adjournment

The meeting was adjourned at 12:00 pm.

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

Brian Piscitelli
Chairman

Edward F. Mikoski, Jr.
Acting Secretary