



Integrated Device Technology, Inc.
6024 Silver Creek Valley Road, San Jose, CA - 95138

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A1110-05 Product Affected: PC Audio Products (VFQFPN-40) Date Effective: December 3, 2011	DATE: November 3, 2011	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input checked="" type="checkbox"/> Other Assembly lot # will have a "R" prefix
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Contact: Bimla Paul Title: Product Quality Assurance Phone #: (408) 574-6419 Fax #: (408) 284-8362 E-mail: Bimla.Paul@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Availability shown on request
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DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input type="checkbox"/> Other	<p>This notification is to advise our customers that IDT is adding ASEK, Taiwan as an alternate assembly, test, pack and ship facility for PC Audio Products in 5mm x 5mm VFQFPN-40 green version. ASEK is a qualified facility for VFQFPN-48.</p> <p>There is no change to the moisture performance of the package as a result of this change.</p> <p>Attachment I details the qualification data for this change</p> <p>Attachment II details the affected part number list.</p>
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RELIABILITY/QUALIFICATION SUMMARY:

Please refer to the attached Qualification & reliability data.

CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.

IDT reserves the right to ship either version manufactured after the process change effective date.

Customer: _____	<input type="checkbox"/> Approval for shipments prior to effective date.
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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ATTACHMENT I - PCN # : A1110-05

PCN Type: Manufacturing Site

Data Sheet Change: No change

No change in moisture sensitivity level (MSL)

Details Of Change:

This notification is to advise our customers that IDT is adding ASEK, Taiwan as an alternate assembly, test, pack and ship facility for PC Audio Products in 5mm x 5mm VFQFPN-40 green version as shown in Attachment II. These products are currently assembled, tested and shipped from UTL, Thailand.

ASEK is a qualified facility for VFQFPN-48. The qualification of alternate facility for VFQFPN-40 will allow IDT the flexibility to ship from either facility and will provide the increased capacity, flexibility and shorter lead time to meet market demand.

There is no change in the Test processing flows, test platform, test hardware and software. Product will be tested at ASEK using the same tester, test programs and hardware as used by the existing qualified facilities.

There will be no change to the moisture performance of this package using the assembly material sets as listed in the table below.



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ATTACHMENT I - PCN # : A1110-05

Qualification Information and Qualification Data:

Affected Packages: 5mm x 5mm VFQFPN-40 (NLG40)

Assembly Material: See Table below

Description	Existing	Add
Assembly Location	UTL, Thailand	ASEK, Taiwan
Assembly Materials	Die Attach: Ablestik 8600, 8006NS	Hitachi EN4900
	Wire: Au wire	Au wire
	Mold Compound: Sumitomo G770	Sumitomo EME-G631
	Lead Frame: Copper	Copper
	Plating: Matte 100% Sn	Matte 100% Sn

Qualification Test Plans and Results :

Qual Vehicle: 7mm x 7mm VFQFPN-48 (3 lots)

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hours)	JESD22-A110	80/0, 80/0, 80/0
* Temperature Cycle (-55 °C to +125 °C, 1000 Cycles)	JESD22-A104	80/0, 80/0, 80/0
High Temp. Storage Test (150 °C, 1000 Hours)	JESD22-A103	80/0, 80/0, 80/0

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level that has been qualified for this material set.



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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN # : A1110-05

Affected Part Number

Part Number	Part Number	Part Number	Part Number
92HD65C5X5NDGXZBX	92HD87B1X5NDGXTBX8	92HD88B3X5NDGXRAX	92HD89E2X5NDGXZB38
92HD65C5X5NDGXZBX8	92HD87B2X5NDGXRA1	92HD88B3X5NDGXRAX8	92HD89E2X5NDGXZBX
92HD66B1X3NDGXZBX	92HD87B2X5NDGXRA18	92HD88B3X5NDGXTAX	92HD89E2X5NDGXZBX8
92HD66B1X3NDGXZBX8	92HD87B2X5NDGXRAX	92HD88B3X5NDGXTAX8	92HD89F1X5NDGXZBX
92HD66B1X5NDGXZBX	92HD87B2X5NDGXRAX8	92HD88B3X5NDGXTBX	92HD89F1X5NDGXZBX8
92HD66B1X5NDGXZBX8	92HD87B2X5NDGXRDX	92HD88B3X5NDGXTBX8	92HD89F2X5NDGXZBX
92HD66B2X3NDGXZBX	92HD87B2X5NDGXRDX8	92HD88B4X5NDGXRAX	92HD89F2X5NDGXZBX8
92HD66B2X3NDGXZBX8	92HD87B2X5NDGXTBX	92HD88B4X5NDGXRAX8	92HD98B1X5NDGXWBX
92HD66B2X5NDGXZBX	92HD87B2X5NDGXTBX8	92HD88B4X5NDGXTAX	92HD98B1X5NDGXWBX8
92HD66B2X5NDGXZBX8	92HD87B3A5NDGXRAX	92HD88B4X5NDGXTAX8	92HD98B1X5NDGXYAX
92HD66C1X3NDGXZBX	92HD87B3A5NDGXRAX8	92HD88B4X5NDGXTBX	92HD98B1X5NDGXYAX8
92HD66C1X3NDGXZBX8	92HD87B3A5NDGXRDX	92HD88B4X5NDGXTBX8	92HD98B2X5NDGXWBX
92HD66C1X5NDGXZBX	92HD87B3A5NDGXRDX8	92HD89B1X3NDGXZBX	92HD98B2X5NDGXWBX8
92HD66C1X5NDGXZBX8	92HD87B3A5NDGXTBX	92HD89B1X3NDGXZBX8	92HD98B2X5NDGXYAX
92HD66C2X3NDGXZBX	92HD87B3A5NDGXTBX8	92HD89B1X5NDGXZBX	92HD98B2X5NDGXYAX8
92HD66C2X3NDGXZBX8	92HD87B3X5NDGXRAX	92HD89B1X5NDGXZBX8	92HD98B3X5NDGXYAX
92HD66C2X5NDGXZBX	92HD87B3X5NDGXRAX8	92HD89B2X3NDGXZBX	92HD98B3X5NDGXYAX8
92HD66C2X5NDGXZBX8	92HD87B3X5NDGXRDX	92HD89B2X3NDGXZBX8	92HD98B4X5NDGXWBX
92HD73E1X5NDGXC1X	92HD87B3X5NDGXRDX8	92HD89B2X5NDGXZBX	92HD98B4X5NDGXWBX8
92HD73E1X5NDGXC1X8	92HD87B3X5NDGXTBX	92HD89B2X5NDGXZBX8	92HD98B4X5NDGXYAX
92HD73E2X5NDGXC1X	92HD87B3X5NDGXTBX8	92HD89C1X3NDGXZBX	92HD98B4X5NDGXYAX8
92HD73E2X5NDGXC1X8	92HD87B4X5NDGXRAX	92HD89C1X3NDGXZBX8	92HD99B1X5NDGXWBX
92HD73E2X5NDGXC2X	92HD87B4X5NDGXRAX8	92HD89C1X5NDGXZBX	92HD99B1X5NDGXWBX8
92HD73E2X5NDGXC2X8	92HD87B4X5NDGXRDX	92HD89C1X5NDGXZBX8	92HD99B1X5NDGXYAX
92HD73E3X5NDGXC2X	92HD87B4X5NDGXRDX8	92HD89C2X3NDGXZBX	92HD99B1X5NDGXYAX8
92HD73E3X5NDGXC2X8	92HD87B4X5NDGXTBX	92HD89C2X3NDGXZBX8	92HD99B2X5NDGXWBX
92HD86B4X5NDGXRDX	92HD87B4X5NDGXTBX8	92HD89C2X5NDGXZBX	92HD99B2X5NDGXWBX8
92HD86B4X5NDGXRDX8	92HD88B1X5NDGXRAX	92HD89C2X5NDGXZBX8	92HD99B2X5NDGXYAX
92HD87B1A5NDGXRAX	92HD88B1X5NDGXRAX8	92HD89D1X5NDGXZBX	92HD99B2X5NDGXYAX8
92HD87B1A5NDGXRAX8	92HD88B1X5NDGXTAX	92HD89D1X5NDGXZBX8	92HD99B3X5NDGXWBX
92HD87B1A5NDGXRDX	92HD88B1X5NDGXTAX8	92HD89D2X5NDGXZBX	92HD99B3X5NDGXWBX8
92HD87B1A5NDGXRDX8	92HD88B1X5NDGXTBX	92HD89D2X5NDGXZBX8	92HD99B3X5NDGXYAX
92HD87B1A5NDGXTBX	92HD88B1X5NDGXTBX8	92HD89E1X5NDGXZBX	92HD99B3X5NDGXYAX8
92HD87B1A5NDGXTBX8	92HD88B2X5NDGXRAX	92HD89E1X5NDGXZBX8	92HD99B4X5NDGXWBX
92HD87B1X5NDGXRAX	92HD88B2X5NDGXRAX8	92HD89E2X5NDGXZB1	92HD99B4X5NDGXWBX8
92HD87B1X5NDGXRAX8	92HD88B2X5NDGXTAX	92HD89E2X5NDGXZB18	92HD99B4X5NDGXYAX
92HD87B1X5NDGXRDX	92HD88B2X5NDGXTAX8	92HD89E2X5NDGXZB2	92HD99B4X5NDGXYAX8
92HD87B1X5NDGXRDX8	92HD88B2X5NDGXTBX	92HD89E2X5NDGXZB28	
92HD87B1X5NDGXTBX	92HD88B2X5NDGXTBX8	92HD89E2X5NDGXZB3	