



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

|                                                                                                                      |                          |                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PCN #: <b>TB-0510-05</b>                                                                                             | DATE: <b>14-Dec-2005</b> | MEANS OF DISTINGUISHING CHANGED DEVICES:                                                                                                                       |
| Product Affected: <b>48L, 56L, 64L TSSOP &amp; 80L TVSOP &amp; 48L, 56L TSSOP exposed pad (Green &amp; Standard)</b> |                          | <input type="checkbox"/> Product Mark<br><input type="checkbox"/> Back Mark<br><input type="checkbox"/> Date Code<br><input checked="" type="checkbox"/> Other |
| Date Effective: <b>13-Jan-2006</b>                                                                                   |                          | Rev 07 printed on shipping tube                                                                                                                                |

|                                                                              |                                                                                 |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Contact: Geoffrey Cortes                                                     | Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Title: Manager, Corporate Quality & Reliability                              |                                                                                 |
| Phone #: (408) 284-8321                                                      |                                                                                 |
| Fax #: (408) 284-1450                                                        | Samples: N/A                                                                    |
| E-mail: <a href="mailto:Geoffrey.Cortes@idt.com">Geoffrey.Cortes@idt.com</a> |                                                                                 |

### DESCRIPTION AND PURPOSE OF CHANGE:

- |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Die Technology<br><input type="checkbox"/> Wafer Fabrication Process<br><input type="checkbox"/> Assembly Process<br><input type="checkbox"/> Equipment<br><input type="checkbox"/> Material<br><input type="checkbox"/> Testing<br><input type="checkbox"/> Manufacturing Site<br><input type="checkbox"/> Data Sheet<br><input checked="" type="checkbox"/> Other - Packaging | ITD will introduce a more robust shipping tube used to pack TSSOP, TVSOP and TSSOP exposed pad packages. This change is to increase the wall thickness in order to provide better protection to the packages during assembly, test and back-end processes.<br>Attachment I details the change of the shipping tube's wall thickness and the qualification data.<br>Attachment II provides the list of products affected. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### RELIABILITY/QUALIFICATION SUMMARY:

There is no impact with regards to the package performance or reliability.

### 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 until the inventory on the earlier version has been depleted.**

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

### CUSTOMER COMMENTS:

### IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN #: TB-0510-05

**PCN Type:** Packing/Shipping

**Data Sheet Change:** None

**Detail of Change:** This change is to increase the shipping tube's wall thickness in order to provide better protection to the packages during assembly, test and back-end processes. The changed shipping tube will be printed with Rev. 07 as shown in the detailed drawing.

| Description              | Existing Tube | New Tube      |
|--------------------------|---------------|---------------|
| Wall Thickness (inch)    | 0.015 - 0.020 | 0.017 - 0.023 |
| Revision Printed on Tube | Rev. 06       | Rev. 07       |

#### Qualification Test Plan and Result:

| Description                                                                    | Reject/Sample Size | Result |
|--------------------------------------------------------------------------------|--------------------|--------|
| Drop Test, 6ft                                                                 | 0/10 tubes         | Pass   |
| Manufacturability (IC Fitting, Trim&Form Machine, Vision System, Test Handler) | 0/10 tubes         | Pass   |
| Visual/Mechanical                                                              | 0/5 tubes          | Pass   |
| Static Electricity Test                                                        | 0/5 tubes          | Pass   |
| Dimensional                                                                    | 0/5 tubes          | Pass   |

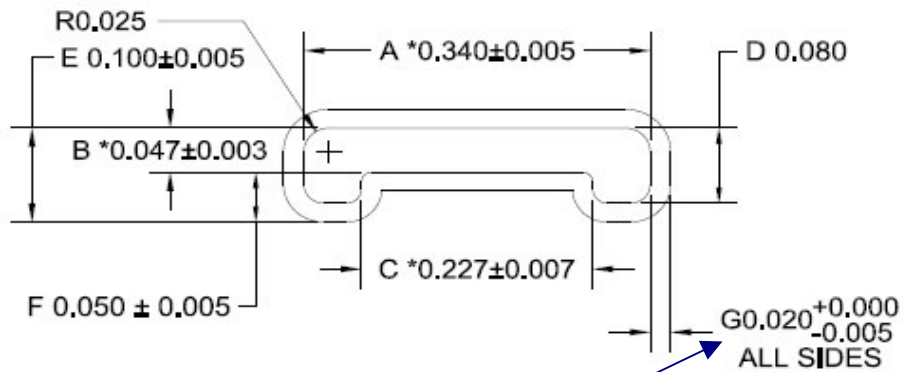


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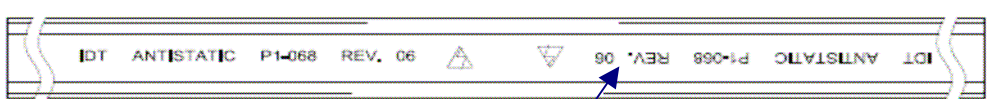
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### ATTACHMENT I - PCN #: TB-0510-05

#### Existing Shipping Tube

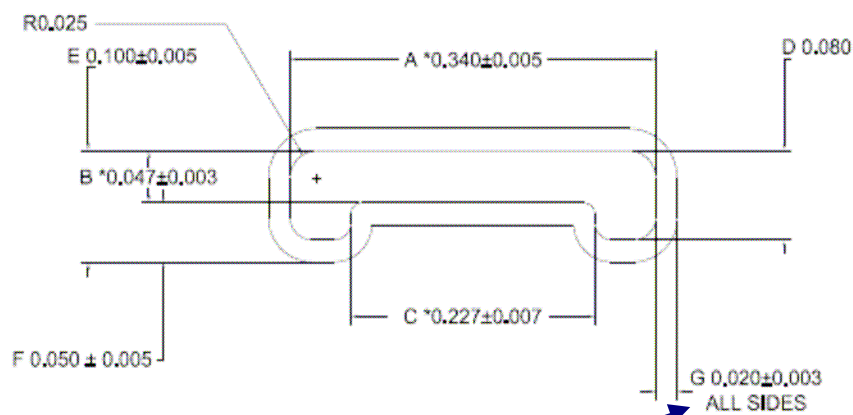


Existing Tube – wall thickness : 0.015 to 0.020

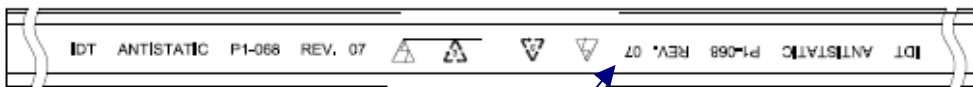


Existing Tube – printed revision, REV.06

#### New Shipping Tube



New Tube – wall thickness : 0.017 to 0.023



New Tube – printed revision, REV.07

ALL DIMENSIONS ARE IN INCHES



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN #: TB-0510-05

#### Affected Part Number

| IDT Part Number | IDT Part Number      | IDT Part Number     | IDT Part Number     |
|-----------------|----------------------|---------------------|---------------------|
| IDT5T9070PAGI   | IDT74ALVC162244PA    | IDT74AUC16373PAI    | IDT74FCT16245CTPAG  |
| IDT5T9070PAI    | IDT74ALVC162245PA    | IDT74AUC16374PAI    | IDT74FCT16245ETPA   |
| IDT5T907PAGI    | IDT74ALVC162245PAG   | IDT74AUC164245PAI   | IDT74FCT16245ETPAG  |
| IDT5T907PAI     | IDT74ALVC162334PA    | IDT74AUCH16245PAI   | IDT74FCT162501ATPA  |
| IDT5T915PAGI    | IDT74ALVC16244APA    | IDT74AUCR16245PAI   | IDT74FCT162501CTPA  |
| IDT5T915PAI     | IDT74ALVC16245PA     | IDT74CBTLV16210PA   | IDT74FCT162511ATPA  |
| IDT7280L12PA    | IDT74ALVC16245PAG    | IDT74CBTLV16211PA   | IDT74FCT162511CTPA  |
| IDT7280L15PA    | IDT74ALVC162836PA    | IDT74CBTLV16211PAG  | IDT74FCT162543ATPA  |
| IDT7280L15PAI   | IDT74ALVC164245PA    | IDT74CBTLV16212PA   | IDT74FCT162543ATPAG |
| IDT7280L20PA    | IDT74ALVC164245PAG   | IDT74CBTLV16212PAG  | IDT74FCT162543CTPA  |
| IDT7281L12PA    | IDT74ALVC16835PA     | IDT74CBTLV16214PA   | IDT74FCT162543CTPAG |
| IDT7281L15PA    | IDT74ALVC16841PA     | IDT74CBTLV16245PA   | IDT74FCT16260ATPA   |
| IDT7281L15PAI   | IDT74ALVCF162835APA  | IDT74CBTLV16292PA   | IDT74FCT16260CTPA   |
| IDT7281L20PA    | IDT74ALVCF162835APAG | IDT74CBTLV16292PAG  | IDT74FCT16260ETPA   |
| IDT7282L12PA    | IDT74ALVCH162244PA   | IDT74CBTLV16800PA   | IDT74FCT162646ATPA  |
| IDT7282L12PAG   | IDT74ALVCH162244PAG  | IDT74CBTLVR16292PA  | IDT74FCT162646CTPA  |
| IDT7282L15PA    | IDT74ALVCH162245PA   | IDT74FCT162240ATPA  | IDT74FCT162652ATPA  |
| IDT7282L15PAI   | IDT74ALVCH162245PAG  | IDT74FCT162240CTPA  | IDT74FCT162652CTPA  |
| IDT7282L20PA    | IDT74ALVCH162373PA   | IDT74FCT162244ATPA  | IDT74FCT162823ATPA  |
| IDT7283L12PA    | IDT74ALVCH162374PA   | IDT74FCT162244ATPAG | IDT74FCT162823CTPA  |
| IDT7283L15PA    | IDT74ALVCH16244PA    | IDT74FCT162244CTPA  | IDT74FCT162827ATPA  |
| IDT7283L15PAGI  | IDT74ALVCH16245PA    | IDT74FCT162244CTPAG | IDT74FCT162827ATPAG |
| IDT7283L15PAI   | IDT74ALVCH16260PA    | IDT74FCT162244ETPA  | IDT74FCT162827CTPA  |
| IDT7283L20PA    | IDT74ALVCH162820PA   | IDT74FCT162244ETPAG | IDT74FCT162827CTPAG |
| IDT7284L12PA    | IDT74ALVCH162827PA   | IDT74FCT162245ATPA  | IDT74FCT162841ATPA  |
| IDT7284L15PA    | IDT74ALVCH16345PA    | IDT74FCT162245ATPAG | IDT74FCT162841CTPA  |
| IDT7284L15PAI   | IDT74ALVCH16373PA    | IDT74FCT162245CTPA  | IDT74FCT162H245ATPA |
| IDT7284L20PA    | IDT74ALVCH16374PA    | IDT74FCT162245CTPAG | IDT74FCT162H245CTPA |
| IDT7285L12PA    | IDT74ALVCH16501PA    | IDT74FCT162373ATPA  | IDT74FCT163244APA   |
| IDT7285L15PA    | IDT74ALVCH16721PA    | IDT74FCT162373CTPA  | IDT74FCT163244APAG  |
| IDT7285L15PAI   | IDT74ALVCH16823PA    | IDT74FCT162373ETPA  | IDT74FCT163244CPA   |
| IDT7285L20PA    | IDT74ALVCH16863PA    | IDT74FCT162374ATPA  | IDT74FCT163244CPAG  |
| IDT72V81L15PA   | IDT74ALVCH16901PA    | IDT74FCT162374CTPA  | IDT74FCT163245APA   |
| IDT72V81L20PA   | IDT74ALVCH16903PA    | IDT74FCT162374ETPA  | IDT74FCT163245CPA   |
| IDT72V81L20PAG  | IDT74ALVCH16952PA    | IDT74FCT16240ATPA   | IDT74FCT163344APA   |
| IDT72V81L20PAI  | IDT74ALVCHR162245PA  | IDT74FCT16240CTPA   | IDT74FCT163344CPA   |
| IDT72V82L15PA   | IDT74ALVCHR162245PAG | IDT74FCT16240ETPA   | IDT74FCT163373APA   |
| IDT72V82L20PA   | IDT74ALVCHR162269APA | IDT74FCT16244ATPA   | IDT74FCT163373APAG  |
| IDT72V83L15PA   | IDT74ALVCHR16501PA   | IDT74FCT16244ATPAG  | IDT74FCT163373CPA   |
| IDT72V83L20PA   | IDT74ALVCHR16601PA   | IDT74FCT16244CTPA   | IDT74FCT163373CPAG  |
| IDT72V84L15PA   | IDT74ALVCHR16601PAG  | IDT74FCT16244CTPAG  | IDT74FCT163374APA   |
| IDT72V84L20PA   | IDT74ALVCHS162830DF  | IDT74FCT16245ATPA   | IDT74FCT163374APAG  |
| IDT72V85L15PA   | IDT74ALVCHS162830DFG | IDT74FCT16245ATPAG  | IDT74FCT163374CPA   |
| IDT72V85L20PA   | IDT74AUC16245PAI     | IDT74FCT16245CTPA   | IDT74FCT163374CPAG  |



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#### Affected Part Number

| IDT Part Number    | IDT Part Number      | IDT Part Number     | IDT Part Number  |
|--------------------|----------------------|---------------------|------------------|
| IDT74FCT163501APA  | IDT74FST32XL2384PAG  | IDT74SSTV16857PA    | IDTCV144PAG      |
| IDT74FCT163501CPA  | IDT74FST32XL384PA    | IDT74SSTV16857PAG   | IDTCV147PAG      |
| IDT74FCT163601APA  | IDT74LVC162244APA    | IDT74SSTV16859PA    | IDTCV149PA       |
| IDT74FCT16373ATPA  | IDT74LVC162244APAG   | IDT74SSTV16859PAG   | IDTCV149PAG      |
| IDT74FCT16373CTPA  | IDT74LVC162245APA    | IDT74SSTVF16857PA   | IDTCV154PAG      |
| IDT74FCT16374ATPA  | IDT74LVC162245APAG   | IDT74SSTVF16857PAG  | IDTCV161PAG      |
| IDT74FCT16374ATPAG | IDT74LVC16244APA     | IDT74SSTVF16859PA   | IDTCV170PAG      |
| IDT74FCT16374CTPA  | IDT74LVC16244APAG    | IDT74SSTVF16859PAG  | IDTQS316212PA    |
| IDT74FCT16374CTPAG | IDT74LVC16245APA     | IDT74SSTVN16859CPAG | IDTQS316233PA    |
| IDT74FCT16374ETPA  | IDT74LVC16245APAG    | IDT74SSTVN16859PA   | IDTQS3VH16210PA  |
| IDT74FCT16374ETPAG | IDT74LVC16344APA     | IDT74SSTVN16859PAG  | IDTQS3VH16210PAG |
| IDT74FCT163827APA  | IDT74LVC16373APA     | IDTCSPT857APA       | IDTQS3VH16211PA  |
| IDT74FCT163827CPA  | IDT74LVC16374APA     | IDTCSPT857CPA       | IDTQS3VH16211PAG |
| IDT74FCT164245TPA  | IDT74LVC16501APA     | IDTCSPT857CPAG      | IDTQS3VH16212PA  |
| IDT74FCT164245TPAG | IDT74LVC16601APA     | IDTCSPT857CPAI      | IDTQS3VH16212PAG |
| IDT74FCT16501ATPA  | IDT74LVC16646APA     | IDTCSPT857DPA       | IDTQS3VH16233PA  |
| IDT74FCT16501ATPAG | IDT74LVC16823APA     | IDTCSPT857DPAG      | IDTQS3VH16233PAG |
| IDT74FCT16501CTPA  | IDT74LVC16827APA     | IDTCSPT857DPAI      | IDTQS3VH16244PA  |
| IDT74FCT16501CTPAG | IDT74LVC16827APAG    | IDTCSPT857PA        | IDTQS3VH16244PAG |
| IDT74FCT16543ATPA  | IDT74LVC16841APA     | IDTCSPT857PAI       | IDTQS3VH16245PA  |
| IDT74FCT16543CTPA  | IDT74LVC16952APA     | IDTCV110JPA         | IDTQS3VH16245PAG |
| IDT74FCT16543ETPA  | IDT74LVCH162244APA   | IDTCV110NPAG        | IDTQS3VH16800PA  |
| IDT74FCT166244ATPA | IDT74LVCH162244APAG  | IDTCV111IPA         | IDTQS3VH16861PA  |
| IDT74FCT166244CTPA | IDT74LVCH162245APA   | IDTCV111IPAG        | IDTQS3VH16861PAG |
| IDT74FCT16652ATPA  | IDT74LVCH162245APAG  | IDTCV125PA          | IDTQS3VH16862PA  |
| IDT74FCT16652CTPA  | IDT74LVCH162373APA   | IDTCV125PAG         |                  |
| IDT74FCT16823ATPA  | IDT74LVCH162374APA   | IDTCV126PA          |                  |
| IDT74FCT16823CTPA  | IDT74LVCH16244APA    | IDTCV126PAG         |                  |
| IDT74FCT16823ETPA  | IDT74LVCH16245APA    | IDTCV128PA          |                  |
| IDT74FCT16952ATPA  | IDT74LVCH16245APAG   | IDTCV128PAG         |                  |
| IDT74FCT16952CTPA  | IDT74LVCH16276APA    | IDTCV133PA          |                  |
| IDT74FCT16952ETPA  | IDT74LVCH16373APA    | IDTCV133PAG         |                  |
| IDT74FST163211PA   | IDT74LVCH16374APA    | IDTCV136PA          |                  |
| IDT74FST163211PAG  | IDT74LVCH16501APA    | IDTCV136PAG         |                  |
| IDT74FST163212PA   | IDT74LVCH16543APA    | IDTCV137PA          |                  |
| IDT74FST163232PA   | IDT74LVCH16543APAG   | IDTCV137PAG         |                  |
| IDT74FST163233PA   | IDT74LVCH16601APA    | IDTCV139PAG         |                  |
| IDT74FST163233PAG  | IDT74LVCH16646APA    | IDTCV140PA          |                  |
| IDT74FST163244PA   | IDT74LVCH16827APA    | IDTCV140PAG         |                  |
| IDT74FST163245PA   | IDT74LVCHR162245APA  | IDTCV141PA          |                  |
| IDT74FST163245PAG  | IDT74LVCHR162245APAG | IDTCV141PAG         |                  |
| IDT74FST1632861PA  | IDT74LVCHR16646APA   | IDTCV142PA          |                  |
| IDT74FST1632861PAG | IDT74LVCR162245APA   | IDTCV142PAG         |                  |
| IDT74FST32XL2384PA | IDT74LVCR162245APAG  | IDTCV144PA          |                  |