



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A-0504-02R1**      DATE: 7/27/2005  
 Product Affected: Please see attachment  
  
 Date Effective: 8/27/2005

MEANS OF DISTINGUISHING CHANGED DEVICES:  
 Product Mark  
 Back Mark      Lot # will have "C" prefix  
 Date Code  
 Other

Contact: Geoffrey Cortes  
 Title: Manager, Corporate Quality & Reliability  
 Phone #: (408) 284-8321  
 Fax #: (408) 284-1450  
 E-mail: [Geoffrey.Cortes@idt.com](mailto:Geoffrey.Cortes@idt.com)

Attachment:       Yes       No  
  
 Samples: Please contact your local sales representative for sample request & availability.

**DESCRIPTION AND PURPOSE OF CHANGE:**

- Die Technology
- Wafer Fabrication Process
- Assembly Process
- Equipment
- Material
- Testing
- Manufacturing Site
- Data Sheet
- Other

This notification is a follow-up letter advising our customers that IDT has completed the Group 3 qualification of PCN # A-0504-02, qualification of OSE Philippines Tin Plating line for green packages..  
 Attachment 1 outlines the qualification plan and actual qual data  
 Attachment 2 shows the affected device list  
  
 Please see attachment for additional details.

**RELIABILITY/QUALIFICATION SUMMARY:**

There is no expected change to the product quality or reliability performance.

**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: \_\_\_\_\_  *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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## **PRODUCT/PROCESS CHANGE NOTICE (PCN)**

### **ATTACHMENT 1 - PCN # : A-0504-02R1**

**PCN Type:** Assembly Transfer

**Data Sheet Change:** None.  
No change in MSL level.

#### **Detail Of Change:**

This notification is a follow-up letter advising our customers that IDT has completed the Group 3 qualification of PCN # A-0504-02, qualification of OSE Philippines Tin Plating line for green packages..

Attachment 1 outlines the qualification plan  
Attachment 2 shows the affected device list

There are no datasheet or Moisture Sensitive Level (MSL) changes due to this change. We do not expect customers to be adversely impacted by this change.

Customer may expect to receive shipments no sooner than 30 days from the date of this notification.



**PRODUCT/PROCESS CHANGE NOTICE (PCN)**

**ATTACHMENT 1 - PCN # : A-0504-02R1**

**Qualification Test Plan:**

**GROUP 3:**

This group consists of green packages that are assembled and plated at IDT Manila facility. IDT will qualify the OSE Tin Plating line for green packages. The qualification plan and data are detailed below.

**Affected Packages:** SOIC - PSG20  
 SOJ - PJG28, PJG32, PBG28, PBG32, PBG36, PBG44  
 SSOP - DJG48, DMG40, DMG80, PCG16, PCG20, PCG24,  
 PGG24, PVG48, PVG56  
 PLCC - PLG32  
 TSSOP - PAG48, PAG56

**Sample Availability:** Samples are already available for customer evaluation, but may not be available for all affected device types. Please contact your local IDT sales representative for your sample request and availability.

**Qualification Test Plan and Data:**

**Tin Whisker Evaluation Test Data:**

Test Description	Test Condition	Test Duration	Spec Limits	Test Results SS/Rej
Storage Test	25°C/30% - 80%RH	0, 1000, 2000 Hours	40µm max.	3/0 (pass)
Aging	60°C/90%RH	0, 1000, 2000 Hours	40µm max.	3/0 (pass)
Temperature Cycling	-55°C to +85°C, 15 min. per chamber	0, 500 Cycles	40µm max.	3/0 (pass)

**Notes:**

Visual inspection is performed at 100 X.  
 Leads are preselected and 3 leads per units are inspected.



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT 2 - PCN #: A-0504-02R1

#### Group - 3

IDTQS32X861Q1G	IDT74FST1632861PAG	IDTCV128PAG	IDT71V016SA10YG
IDTQS32XL384Q1G	IDT74FST32XL2384PAG	IDTCV133PAG	IDT71V016SA10YGI
IDTQS4A215Q1G	IDT74LVC162244APAG	IDTCV136PAG	IDT71V016SA12YG
IDTQS32X2245Q2G	IDT74LVC162245APAG	IDTCV137PAG	IDT71V016SA12YGI
IDTQS32X244Q2G	IDT74LVC16244APAG	IDTCV139PAG	IDT71V016SA15YG
IDTQS32X245Q2G	IDT74LVC16245APAG	IDTCV140PAG	IDT71V016SA15YGI
IDTQS32XR245Q2G	IDT74LVCH162244APAG	IDTCV142PAG	IDT71V016SA20YG
IDTQS32XVH245Q2G	IDT74LVCH162245APAG	IDTCV144PAG	IDT71V016SA20YGI
IDTQS34X2245Q3G	IDT74LVCH16245APAG	IDTCV147PAG	IDT71V416S10YG
IDTQS34X245Q3G	IDT74LVCHR162245APAG	IDTCV149PAG	IDT71V416S10YGI
IDTQS34XVH245Q3G	IDT74LVCR162245APAG	IDTQS3VH16211PAG	IDT71V416S12YG
IDT5T915PAGI	IDT74SSTV16857PAG	IDTQS3VH16212PAG	IDT71V416S12YGI
IDT74ALVC162245PAG	IDT74SSTVF16857PAG	IDTQS3VH16233PAG	IDT71V416S15YG
IDT74ALVC16245PAG	IDTCSPT857CPAG	IDT71028S15YG	IDT71V416S15YGI
IDT74ALVC164245PAG	IDTCSPT857DPAG	IDT71024S12YG	IDT5V925QGI
IDT74ALVCH162244PAG	IDTCV141PAG	IDT71024S12YGI	IDT74CBTLV3251QG
IDT74ALVCH162245PAG	IDTQS3VH16210PAG	IDT71024S15YG	IDTQS3125QG
IDT74ALVCHR162245PAG	IDTQS3VH16244PAG	IDT71024S15YGI	IDTQS3126QG
IDT74FCT162244ATPAG	IDTQS3VH16861PAG	IDT71024S20YG	IDTQS3251QG
IDT74FCT162244CTPAG	IDT72V81L20PAG	IDT71024S20YGI	IDTQS3253QG
IDT74FCT162244ETPAG	IDT74ALVCF162835APAG	IDT71024S25YG	IDTQS3257QG
IDT74FCT162245ATPAG	IDT74ALVCHR16601PAG	IDT71124S12YG	IDTQS3VH125QG
IDT74FCT162245CTPAG	IDT74CBTLV16211PAG	IDT71124S12YGI	IDTQS3VH126QG
IDT74FCT16244ATPAG	IDT74CBTLV16212PAG	IDT71124S15YG	IDTQS3VH251QG
IDT74FCT16244CTPAG	IDT74CBTLV16292PAG	IDT71124S15YGI	IDTQS3VH253QG
IDT74FCT16245ATPAG	IDT74FCT162543ATPAG	IDT71124S20YG	IDTQS3VH257QG
IDT74FCT16245CTPAG	IDT74FCT162543CTPAG	IDT71124S20YGI	IDTQS4A205QG
IDT74FCT16245ETPAG	IDT74FCT162827ATPAG	IDT71V124SA10YG	IDT49FCT3805AQQ
IDT74FCT163244APAG	IDT74FCT162827CTPAG	IDT71V124SA10YGI	IDT49FCT3805AQQI
IDT74FCT163244CPAG	IDT74FCT16501ATPAG	IDT71V124SA12YG	IDT49FCT3805QG
IDT74FCT163373APAG	IDT74FCT16501CTPAG	IDT71V124SA12YGI	IDT49FCT3805QGI
IDT74FCT163373CPAG	IDT74FST163211PAG	IDT71V124SA15YG	IDT74FCT3245AQQ
IDT74FCT163374APAG	IDT74FST163233PAG	IDT71V124SA15YGI	IDT74FCT3807AQQ
IDT74FCT163374CPAG	IDT74LVC16827APAG	IDT71016S12YG	IDT74FCT3807AQQI
IDT74FCT16374ATPAG	IDT74LVCH16543APAG	IDT71016S12YGI	IDT74FCT3807QG
IDT74FCT16374CTPAG	IDTCV110NPAG	IDT71016S15YG	IDT74FCT3807QGI
IDT74FCT16374ETPAG	IDTCV111IPAG	IDT71016S15YGI	IDT74FCT540ATQG
IDT74FCT164245TPAG	IDTCV125PAG	IDT71016S20YG	IDT74FCT540CTQG
IDT74FST163245PAG	IDTCV126PAG	IDT71016S20YGI	IDT74FCT573ATQG