



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>A-0508-02</b> DATE: <b>09/05/05</b> Product Affected:    Please see attachment  Date Effective: <b>12/5/2005</b>	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark              Lot # will have "A" prefix. <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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Contact: Geoffrey Cortes Title: Corporate Quality & Reliability Phone #: (408) 284-8321 Fax #: (408) 284-1450 E-mail: <a href="mailto:Geoffrey.Cortes@idt.com">Geoffrey.Cortes@idt.com</a>	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Samples: Please contact your local sales representative for sample request & availability.
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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>To qualify OSE-Taiwan as an alternate assembly location for selective green products. OSE-Taiwan is a qualified assembly facility for selective standard packages. IDT has completed the qualification of these selective packages in a green version. The green version of the package uses the same qualified material set as the standard package, but have lead free plating. IDT distinguishes the RoHS compliant "green" package by using "G" character after the package code in a part number.</p> <p>Attachment 1 details the qualification results for this change and Attachment 2 shows the affected list of devices.</p>
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**RELIABILITY/QUALIFICATION SUMMARY:**

Qualification was performed for the change to the lead finish only as the package material set was previously qualified for standard products. Refer to Attachment 1 page 2 for the qualification results.

**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"/> <i>Approval for shipments prior to effective date.</i>
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-0508-02**

**PCN Type:** Manufacturing Site

**Data Sheet Change:** None.

**Detail Of Change:**

OSE-Taiwan is an IDT qualified assembly facility for selective standard packages. This notification is to advise our customers that IDT have completed the qualification of OSE-Taiwan as an alternate assembly facility for these same packages in green version.

Attachment 1 details the qualification results for this change and Attachment 2 shows the affected list of devices.

There are no changes to the Datasheet or existing Moisture Sensitive Level (MSL).



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

**ATTACHMENT 1 - PCN # : A-0508-02**

**Qualification Test Plan and Qualification Data**

**Affected Packages:** 24L SOIC (PSG24)  
 28L SOJ (PJG28)  
 40L, 40L and 90L QVSOP (DJG48, DMG40, DMG80)  
 16L, 20L, 28L, 48L, and 56L SSOP (PYG20, PYG28, PVG48, PVG56, PCG16, PCG20, PCG24, PCG28)  
 48L and 56L TVSOP (PFG48, PFG56)  
 14L, 16L, 48L and 56L TSSOP (PAG48, PAG56, PGG14, PGG16)  
 32L and 44L TSOP (PHG32, PHG44)

**Assembly Material:** The affected green packages will be assembled using the same mold compound and die attach material as used in the standard package assembly. The mold compound used is green and was previously qualified using JEDEC-Std-020C for moisture sensitivity classification and preconditioning with peak reflow temperature of 260°C.

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

**Qualification Test Plan and Data:**

**Tin Whisker Evaluation Test Data. Test were performed on 3 different assembly lots.**

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.	9/0 (Pass)
Aging	60°C/90%RH	0, 1000, 2000 Hours	40µm max.	9/0 (Pass)
Temperature Cycling	-55°C to +85°C, 15 min. per chamber	0, 500 Cycles	40µm max.	9/0 (Pass)

**Note:** Reference spec for Tin Whisker test is NEMI.



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

**ATTACHMENT 2 - PCN # : A-0508-02**

IDT2308-1HPGG	IDT6116LA20SOG	IDT71V016SA20PHG
IDT2308-1HPGGI	IDT6116LA20SOGI	IDT71V016SA20PHGI
IDT2308A-1HPGG	IDT6116LA25SOG	IDT71V124SA10PHG
IDT2308A-1HPGGI	IDT6116LA25SOGI	IDT71V124SA10PHGI
IDT2308A-5HPGG	IDT6116LA35SOG	IDT71V124SA12PHG
IDT2308A-5HPGGI	IDT6116LA35SOGI	IDT71V124SA12PHGI
IDT2309-1HPGG	IDT6116LA45SOG	IDT71V124SA15PHG
IDT2309-1HPGGI	IDT6116LA45SOGI	IDT71V124SA15PHGI
IDT2309A-1HPGG	IDT6116SA15SOG	IDT71V124SA20PHG
IDT2309A-1HPGGI	IDT6116SA15SOGI	IDT71V124SA20PHGI
IDT2309NZ-1HPGG	IDT6116SA20SOG	IDT71V256S10YG
IDT2309NZ-1HPGGI	IDT6116SA20SOGI	IDT71V256S12YG
IDT23S09-1HPGG	IDT6116SA25SOG	IDT71V256SA10YG
IDT23S09-1HPGGI	IDT6116SA25SOGI	IDT71V256SA10YGI
IDT49FCT20805PYGI	IDT6116SA35SOG	IDT71V256SA12YG
IDT49FCT3805APYG	IDT6116SA35SOGI	IDT71V256SA12YGI
IDT49FCT3805APYGI	IDT6116SA45SOG	IDT71V256SA15YG
IDT49FCT3805AQQ	IDT6116SA45SOGI	IDT71V256SA15YGI
IDT49FCT3805AQGI	IDT71016S12PHG	IDT71V256SA20YG
IDT49FCT3805DPYGI	IDT71016S12PHGI	IDT71V256SA20YGI
IDT49FCT3805EPYGI	IDT71016S15PHG	IDT71V416L10PHG
IDT49FCT3805PYG	IDT71016S15PHGI	IDT71V416L10PHGI
IDT49FCT3805PYGI	IDT71016S20PHG	IDT71V416L12PHG
IDT49FCT3805QG	IDT71016S20PHGI	IDT71V416L12PHGI
IDT49FCT3805QGI	IDT71256SA12YG	IDT71V416L15PHG
IDT49FCT805APYG	IDT71256SA12YGI	IDT71V416L15PHGI
IDT49FCT805APYGI	IDT71256SA15YG	IDT71V416S10PHG
IDT49FCT805PYG	IDT71256SA15YGI	IDT71V416S12PHG
IDT49FCT805PYGI	IDT71256SA20YG	IDT71V416S12PHGI
IDT5T915PAGI	IDT71256SA20YGI	IDT71V416S15PHG
IDT5V2305PGGI	IDT71256SA25YG	IDT71V416S15PHGI
IDT5V925QGI	IDT7164L15YG	IDT71V416S20PHG
IDT5V926PGGI	IDT7164L15YGI	IDT71V424L10PHG
IDT5V927PGGI	IDT7164L20YG	IDT71V424L10PHGI
IDT5V9910A-2SOG	IDT7164L20YGI	IDT71V424L12PHG
IDT5V9910A-5SOGI	IDT71V016SA10PHG	IDT71V424L12PHGI
IDT5V9910A-7SOGI	IDT71V016SA10PHGI	IDT71V424L15PHG
IDT5V993A-2QG	IDT71V016SA12PHG	IDT71V424L15PHGI
IDT5V993A-5QGI	IDT71V016SA12PHGI	IDT71V424S10PHG
IDT5V993A-7QGI	IDT71V016SA15PHG	IDT71V424S10PHGI
IDT6116LA15SOGI	IDT71V016SA15PHGI	IDT71V424S12PHG



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### ATTACHMENT 2 - PCN # : A-0508-02

IDT71V424S12PHGI	IDT74FCT162827ATPAG	IDT74FCT807CTPYGI
IDT71V424S15PHG	IDT74FCT162827CTPAG	IDT74FST163211PAG
IDT71V424S15PHGI	IDT74FCT163244APAG	IDT74FST163233PAG
IDT72V81L20PAG	IDT74FCT163244CPAG	IDT74FST163245PAG
IDT74ALVC162245PAG	IDT74FCT163373APAG	IDT74FST1632861PAG
IDT74ALVC16245PAG	IDT74FCT163373CPAG	IDT74FST32XL2384PAG
IDT74ALVC164245PAG	IDT74FCT163374APAG	IDT74FST6800QG
IDT74ALVC16835PFG	IDT74FCT163374CPAG	IDT74LVC11APGG
IDT74ALVCF162835APAG	IDT74FCT16374ATPAG	IDT74LVC162244APAG
IDT74ALVCF162835APFG	IDT74FCT16374CTPAG	IDT74LVC162245APAG
IDT74ALVCH162244PAG	IDT74FCT16374ETPAG	IDT74LVC16244APAG
IDT74ALVCH162245PAG	IDT74FCT164245TPAG	IDT74LVC16245APAG
IDT74ALVCHR162245PAG	IDT74FCT16501ATPAG	IDT74LVC16245APFG
IDT74ALVCHR16601PAG	IDT74FCT16501CTPAG	IDT74LVC16374APFG
IDT74CBTLV16211PAG	IDT74FCT20807QGI	IDT74LVC16823APVG
IDT74CBTLV16212PAG	IDT74FCT3244APYG	IDT74LVC16827APAG
IDT74CBTLV16292PAG	IDT74FCT3244PYG	IDT74LVCH162244APAG
IDT74CBTLV3125PGG	IDT74FCT3245AQQ	IDT74LVCH162245APAG
IDT74CBTLV3251QG	IDT74FCT3807APYG	IDT74LVCH16245APAG
IDT74CBTLV3253PGG	IDT74FCT3807APYGI	IDT74LVCH16543APAG
IDT74CBTLV3257PGG	IDT74FCT3807AQQ	IDT74LVCHR162245APAG
IDT74FCT162244ATPAG	IDT74FCT3807AQQI	IDT74LVCR162245APAG
IDT74FCT162244CTPAG	IDT74FCT3807DPYGI	IDT74SSTV16857PAG
IDT74FCT162244ETPAG	IDT74FCT3807EPYGI	IDT74SSTVF16857PAG
IDT74FCT162245ATPAG	IDT74FCT3807PYG	IDT82V3001APVG
IDT74FCT162245CTPAG	IDT74FCT3807PYGI	IDT82V3002APVG
IDT74FCT16244ATPAG	IDT74FCT3807QG	IDT82V3010PVG
IDT74FCT16244CTPAG	IDT74FCT3807QGI	IDT82V3011PVG
IDT74FCT16245ATPAG	IDT74FCT388915TBPYG	IDT82V3012PVG
IDT74FCT16245CTPAG	IDT74FCT388915TCPYG	IDT82V3155PVG
IDT74FCT16245ETPAG	IDT74FCT388915TDPYG	IDTCSPT857CPAG
IDT74FCT162501ATPVG	IDT74FCT388915TEPYG	IDTCSPT857DPAG
IDT74FCT162501CTPVG	IDT74FCT540ATQG	IDTCV110JPVG
IDT74FCT162511ATPVG	IDT74FCT540CTQG	IDTCV110LPVG
IDT74FCT162511CTPVG	IDT74FCT573ATQG	IDTCV110NPAG
IDT74FCT162543ATPAG	IDT74FCT573CTQG	IDTCV110NPVG
IDT74FCT162543ATPVG	IDT74FCT574ATQG	IDTCV111IPAG
IDT74FCT162543CTPAG	IDT74FCT574CTQG	IDTCV112-2PGG
IDT74FCT162543CTPVG	IDT74FCT807BTPYG	IDTCV112-3PGG
IDT74FCT162823ATPVG	IDT74FCT807BTPYGI	IDTCV115-2PVG
IDT74FCT162823CTPVG	IDT74FCT807CTPYG	IDTCV115CPVG



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### ATTACHMENT 2 - PCN # : A-0508-02

IDTCV115FPVG	IDTQS32X861Q1G	
IDTCV116-1APVG	IDTQS32XL384Q1G	
IDTCV117APVG	IDTQS32XR245Q2G	
IDTCV122CPVG	IDTQS32XVH245Q2G	
IDTCV123PVG	IDTQS3383QG	
IDTCV125PAG	IDTQS3384QG	
IDTCV126PAG	IDTQS3390QG	
IDTCV128PAG	IDTQS34X2245Q3G	
IDTCV128PVG	IDTQS34X245Q3G	
IDTCV132APVG	IDTQS34XVH245Q3G	
IDTCV132BPVG	IDTQS3861QG	
IDTCV132PVG	IDTQS3L384QG	
IDTCV133PAG	IDTQS3VH125QG	
IDTCV136PAG	IDTQS3VH126QG	
IDTCV137PAG	IDTQS3VH16210PAG	
IDTCV139PAG	IDTQS3VH16211PAG	
IDTCV140PAG	IDTQS3VH16212PAG	
IDTCV141PAG	IDTQS3VH16233PAG	
IDTCV142PAG	IDTQS3VH16244PAG	
IDTCV143PYG	IDTQS3VH16861PAG	
IDTCV144PAG	IDTQS3VH244QG	
IDTCV146PVG	IDTQS3VH245QG	
IDTCV147PAG	IDTQS3VH251QG	
IDTCV147PVG	IDTQS3VH253PAG	
IDTCV148PVG	IDTQS3VH253QG	
IDTCV149PAG	IDTQS3VH257QG	
IDTCV151PVG	IDTQS4A201QG	
IDTCV152PVG	IDTQS4A205QG	
IDTCV157PVG	IDTQS4A215Q1G	
IDTCV158QG	IDTQS5LV919-100QG	
IDTQS3125QG	IDTQS5LV919-133QG	
IDTQS3126QG	IDTQS5LV919-160QG	
IDTQS32390QG	IDTQS5LV931-50QG	
IDTQS3244QG	IDTQS5LV931-66QG	
IDTQS3245QG	IDTQS5LV931-80QG	
IDTQS3251QG		
IDTQS3253QG		
IDTQS3257QG		
IDTQS32X2245Q2G		
IDTQS32X244Q2G		
IDTQS32X245Q2G		