



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A1111-01	DATE: December 15, 2011	MEANS OF DISTINGUISHING CHANGED DEVICES:
Product Affected: Refer Attachment II		<input type="checkbox"/> Product Mark <u>Lot# will have the following prefix:</u>
		<input checked="" type="checkbox"/> Back Mark "P" prefix for ATP
		<input type="checkbox"/> Date Code "MS" prefix for CRSS
Date Effective: March 15, 2012		<input type="checkbox"/> Other "W" prefix for PTU
		"A" prefix for OSET

Contact: Geoffrey Cortes	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Title: Product Quality	
Phone #: (408) 284-8321	
Fax #: (408) 284-1450	Samples: Availability shown on request
E-mail: Geoffrey.Cortes@idt.com	

DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology	This notification is to advise our customers that IDT is adding ATP, Philippines; CRSS, Malaysia; PTU, Indonesia and OSET, Taiwan as alternate assembly facilities for products listed in Attachment II.
<input type="checkbox"/> Wafer Fabrication Process	
<input type="checkbox"/> Assembly Process	There is no change to the moisture performance of these part# as a result of this change.
<input type="checkbox"/> Equipment	
<input type="checkbox"/> Material	
<input type="checkbox"/> Testing	
<input checked="" type="checkbox"/> Manufacturing Site	Attachment I details the qualification data for this change
<input type="checkbox"/> Data Sheet	
<input type="checkbox"/> Other	Attachment II details the affected part number list

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"/> <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: _____



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1111-01

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 ATP, Philippines; CRSS, Malaysia; PTU, Indonesia and OSET, Taiwan as alternate assembly facilities for list of products in Attachment II.

There is no change to the moisture performance of these part# using the assembly material sets as listed in the below table.

Qualification Information and Qualification Data:

Affected Packages: SOIC-8 (DC8, DCG8)

Assembly Material: See Table below.

Description	Existing	Add
Assembly Location	UTL, Thailand	ATP, Philippines; PTU, Indonesia and OSET, Taiwan
Assembly Materials	Die Attach: 2200D	8290, CRM1076NS, EN4900GC
	Wire: Au wire, Cu wire	Au wire, Cu wire
	Mold Compound: G600	G600, G600, CEL-9220HF
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Matte 100% Sn (Green), Sn/Pb (Standard)	Matte 100% Sn (Green), Sn/Pb (Standard)



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1111-01

Qualification Information and Qualification Data:

Affected Packages: TSSOP-8, TSSOP-16, TSSOP-20 (DVG8, PGG8, PG16, PGG16, PGG20)

Assembly Material: See Table below.

Description	Existing	Add	
Assembly Location	UTL, Thailand	ATP, Philippines; PTU, Indonesia and OSET, Taiwan	
Assembly Materials	Die Attach: 8200T, 2200D	8290, CRM1076NS, EN4900GC	
	Wire	TSSOP-8, 20 (Au wire)	Au wire
		TSSOP-16 (Au wire, Cu wire)	Au wire, Cu wire
	Mold Compound: G605L, G600	G700A, G700K, G700LX, CEL-9200HF	
	Lead Frame: Copper Alloy	Copper Alloy	
	Plating: Matte 100% Sn (Green), Sn/Pb (Standard)	Matte 100% Sn (Green), Sn/Pb (Standard)	

Qualification Information and Qualification Data:

Affected Packages: VFQFPN-32 (NLG32)

Assembly Material: See Table below.

Description	Existing	Add
Assembly Location	UTL, Thailand	CRSS, Malaysia
Assembly Materials	Die Attach: 8200T	QMI519
	Wire: Au wire	Au wire
	Mold Compound: G770HCD	G700
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Matte 100% Sn	Matte 100% Sn



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1111-01

Qualification Test Plans and Results :

(i) Package: SOIC

Test Description	Test Method	Test Results (SS / Rej)		
		ATP	PTU	OSET
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hours)	JESD22-A110	45/0	45/0	45/0
* Temperature Cycle (-55 °C to +125 °C, 1000 Cycles)	JESD22-A104	45/0	45/0	45/0
High Temp. Storage Test (150 °C, 1000 Hours)	JESD22-A103	77/0	77/0	77/0

(ii) Package: TSSOP

Test Description	Test Method	Test Results (SS / Rej)		
		ATP	PTU	OSET
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hours)	JESD22-A110	45/0	43/0	45/0
* Temperature Cycle (-55 °C to +125 °C, 700 Cycles)	JESD22-A104	45/0	45/0	45/0
High Temp. Storage Test (150 °C, 1000 Hours)	JESD22-A103	77/0	77/0	77/0

(iii) Package: VFQFPN

Test Description	Test Method	Test Results (SS / Rej)
		CRSS
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hours)	JESD22-A110	45/0
* Temperature Cycle (-55 °C to +125 °C, 1000 Cycles)	JESD22-A104	45/0
High Temp. Storage Test (150 °C, 1000 Hours)	JESD22-A103	77/0

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 # : A1111-01

Affected Part Number

Part Number	Part Number	Part Number	Part Number
1337DCGI	651MI	6V50021DVG	9LVRS394CKLF
1337DCGI8	651MILF	6V50021DVG8	9LVRS394CKLFT
470G-01LF	651MILFT	7152AM-11LF	MK3721D
470G-01LFT	651MIT	7152AM-11LFT	MK3721DLF
557G-03	651MLF	87002BM-05LF	MK3721DLFTR
557G-03LF	651MLFT	87002BM-05LFT	MK3721DTR
557G-03LFT	671AGI-18LF	91305AMILF	
557G-03T	671AGI-18LFT	91305AMILFT	