



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

<b>PCN #:</b> A1009-02 <b>DATE:</b> October 28, 2010 <b>Product Affected:</b> 4mm x 4mm VFQFP-N-28 (Green)  <b>Date Effective:</b> January 28, 2011	<b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b> <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark      Lot# will have a "U" prefix <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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<b>Contact:</b> Bimla Paul <b>Title:</b> Product Quality Assurance <b>Phone #:</b> (408) 574-6419 <b>Fax #:</b> (408) 284-8362 <b>E-mail:</b> <a href="mailto:Bimla.Paul@idt.com">Bimla.Paul@idt.com</a>	<b>Attachment:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Samples:</b> Availability shown on request
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**DESCRIPTION AND PURPOSE OF CHANGE:**

<input type="checkbox"/> Die Technology	This notification is to advise our customers that IDT is adding UTL, Thailand as an alternate assembly facility for 4mm x 4mm VFQFP-N-28 green version.
<input type="checkbox"/> Wafer Fabrication Process	
<input type="checkbox"/> Assembly Process	
<input type="checkbox"/> Equipment	There is no change to the moisture performance of the package as a result of this change.
<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	Attachment II details the affected part number list.
<input type="checkbox"/> Other	

**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"/> <b><i>Approval for shipments prior to effective date.</i></b>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

**CUSTOMER COMMENTS:** \_\_\_\_\_

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**IDT ACKNOWLEDGMENT OF RECEIPT:**

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



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### ATTACHMENT I - PCN # : A1009-02

**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 UTL, Thailand as an alternate assembly facility for 4mm x 4mm VFQFP-N-28 green version. There is no change to the moisture performance of these packages using the assembly material sets as listed in the below table.

#### Qualification Information and Qualification Data:

**Affected Packages:** 4mm x 4mm VFQFP-N-28 (NQG28)

**Assembly Material:** See Table below

Description	Existing	Add
Assembly Location	Unisem, Malaysia	UTL, Thailand
Assembly Materials	Die Attach: CRM1076NS	8200T
	Wire: Au wire	Au Wire
	Mold Compound: G770HCD	G770HCD
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Matte 100% Sn (Green)	Matte 100% Sn (Green)



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### ATTACHMENT I - PCN # : A1009-02

#### Qualification Test Plans and Results :

**Qual Vehicle:** 10mm x 10mm VFQFP-N-72 & 9mm x 9mm VFQFP-N-64

Test Description	Test Method	Test Results (SS / Rej)	
		VFQFP-N-72	VFQFP-N-64
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hours)	JESD22-A110	45/0	45/0
* Temperature Cycle (-55 °C to +125 °C, 1000 Cycles)	JESD22-A104	45/0	45/0
High Temp. Storage Test (150 °C, 1000 Hours)	JESD22-A103	77/0	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 # : A1009-02

#### Affected Part Number

Part Number	Part Number	Part Number	Part Number
LDS6000NQG1	LDS6003NQG18	LDS6020NQG1	LDS6023NQG18
LDS6000NQG18	LDS6005NQG1	LDS6020NQG18	LDS6025NQG1
LDS6003NQG1	LDS6005NQG18	LDS6023NQG1	LDS6025NQG18