



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>A-0605-04</b>	DATE: <b>5/24/2006</b>	MEANS OF DISTINGUISHING CHANGED DEVICES:
Product Affected: 40L, 48L, 80L QVSOP (Green)		<input type="checkbox"/> Product Mark
Date Effective: <b>8/22/2006</b>		<input checked="" type="checkbox"/> Back Mark      Lot # will have an "Z" prefix
		<input type="checkbox"/> Date Code
		<input type="checkbox"/> Other

Contact: Geoffrey Cortes		Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Title: Product Quality Assurance			
Phone #: (408) 284-8321			
Fax #: (408) 284-1450	Samples: Please contact your local sales representative for sample request & availability.		
E-mail: <a href="mailto:Geoffrey.Cortes@idt.com">Geoffrey.Cortes@idt.com</a>			

**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>This notification is to advise our customers that IDT is adding UNISEM-Malaysia as an alternate assembly facility for green QVSOP packages. There is no change to the moisture performance of these packages.</p> <p>Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers.</p>
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**RELIABILITY/QUALIFICATION SUMMARY:**

Refer to qualification data shown in attachment I.

**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:** \_\_\_\_\_

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**IDT ACKNOWLEDGMENT OF RECEIPT:**

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



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

**ATTACHMENT I - PCN # : A-0605-04**

**PCN Type:** Manufacturing Site - Alternate Assembly Location  
**Data Sheet Change:** None  
 No change in moisture sensitivity level (MSL)

**Detail Of Change:**

This notification is to advise our customers that IDT is adding UNISEM-Malaysia as an alternate assembly facility for 40L, 48L, 80L SSOP green packages using the assembly material set as listed in Table 1.

There is no change in the moisture sensitivity level (MSL).

Table 1

Description	Existing	Add
Assembly Location	OSE Philippines	UNISEM
Assembly Material	Die Attach: 8390	84-1LMISR4
	Wire: GL2 1.0mil Au	1.0mil Au
	Mold Compound: Sumitomo EME-G600 series	EM-G600
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Matte 100% Sn (green package)	Matte 100% Tin (green package)

**Sample Availability:**

Samples for each package type are available for customer evaluation, but may not be available for all devices.

Please contact your local IDT sales representative for your sample request and availability.



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : A-0605-04

#### Qualification Information and Qualification Data:

#### Qualification Test Results:

**Test Vehicle:** 150mils, 16L SOIC, green

Test Description	Test Method	Test Result (SS/Rej)
Moisture Sensitivity Classification, L1	J-STD-020C	64/0
* Temperature Cycling (Cond B, 500 cycles)	JESD22-A104-B	32/0
* Pressure Cooker (121°C/100% RH, 168 hours)	JESD22-A102-C	32/0
High Temperature Stabilization Bake (150°C, 500 hours)	JESD22-A103-B	32/0

**Notes:** \* Test requires moisture pre-conditioning sequence per JESD22-A113-D

#### Tin Whisker Evaluation Test Results

**Test Vehicle:** 16L SOICN, green, 1 lot

Test Description	Test Condition	Test Duration	Spec Limits	Test Results (SS/Rej)
Storage Test	85°C / 85% RH	168, 500 hours	40µm max.	3/0
Temperature Cycling	-65°C to +150°C	100, 500 cycles	40µm max.	3/0



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN # : A-0605-04

#### Affected Part Number

IDT Part Number	IDT Part Number	IDT Part Number	IDT Part Number
IDTQS32X2245Q2G	IDTQS32X384Q1G	IDTQS32XVH245Q2G	IDTQS34X383Q3G
IDTQS32X2384Q1G	IDTQS32X861Q1G	IDTQS33X257Q1G	IDTQS34XVH2245Q3G
IDTQS32X244Q2G	IDTQS32XL384Q1G	IDTQS34X2245Q3G	IDTQS34XVH245Q3G
IDTQS32X245Q2G	IDTQS32XVH2245Q2G	IDTQS34X245Q3G	IDTQS4A215Q1G